King County
Geographic Information System

2015-2016
Operations and Maintenance
Plan

King County

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1 Introduction

This document describes the state of the King County Geographic Information System (KCGIS) as of December 2014. It represents the culmination of a collaborative effort by personnel throughout the County to describe the 2015-2016 biennial GIS work programs for participating agencies. GIS is critical to the business of King County, as demonstrated in its use for property appraisal, permit review, emergency services, human services, election services, wastewater facilities planning, natural resource and parks management, waste management, public health, road maintenance, transit services, airport management, crime analysis, budget development, policymaking, legislative support, and growth management. This document provides the details of how GIS supports those and many other business functions.

KCGIS was organized into a countywide federated structure in 2002 with an enterprise GIS unit (the King County GIS Center), a single point of accountability, and governance committees at the technical and oversight level. In 2012 the single point of accountability was transferred from the director of the Department of Natural Resources and Parks (DNRP) to King County's Chief Information Officer (CIO).

A key mission of KCGIS is to generate an annual comprehensive work plan (known as the Operations and Maintenance Plan, or O&M Plan). This document is the 2015-2016 edition of that work plan. It builds on the experience of the 2002 - 2013 O&M plans. With King County moving to a biennial budget cycle for all agencies starting in 2015 the KCGIS Technical Committee reconsidered the timing of our annual O&M plan. In order to maximize the potential for GIS work plans to influence and integrate with the broader scope of departmental business planning and budgeting the committee decided to move the timeframe for development of the plan to coincide with the new biennial budget cycle. This major document will now be produced every two years synchronized with the budget process with only needed revisions in the off years. The plan includes information on the major components of any GIS - hardware, software, data, applications and staff. Each of these is addressed in the context of current structures and planned changes for 2015-16. The result is a comprehensive picture that details the King County GIS work program. As in previous years, the 2015-16 O&M Plan provides lists of data and applications, descriptions of current work tasks, details of agency GIS programs, and information on GIS budgets.

The document is organized as follows:

- Introduction
- Organization
- Priority Initiatives
- Agency Work Plans
- Summary Information
- KCGIS Center Services
- GIS Committees
- Appendix

The Organization section details how GIS efforts are organized within the County. The Priority Initiatives section provides information on the GIS endeavors identified through the work of the governance committees as having significant benefit and hence high priority for accomplishment. These priorities change each year, with some new initiatives added and some initiatives carrying over from year to year until they are completed. The Agency Work Plans section provides information on the strengths, weaknesses, challenges and goals lying before the constituent agencies as they implement and manage their GIS programs. This section also includes a listing of each agency's major GIS projects. The Summary Information section provides a listing of each agency's GIS staffing, licensed software, data, applications, and servers. The KCGIS Center Services section summarizes the KCGIS Center's role and its functions in the enterprise GIS. Descriptive information on the various committees that make up the governance structure is contained in the GIS Committees section. The Appendix provides budgeting and financial information in tabular and diagram formats.

KCGIS embodies a rich source of data, a unique set of innovative applications, and a group of highly skilled and motivated professionals serving the public's geographic needs. This resource is essential to the diverse business functions of King County, and the 2015-16 O&M Plan describes it fully. Support from the County Executive, management, and staff has provided a solid foundation for KCGIS to continue to grow and provide high-quality, cost-effective, and valued service to the citizens of King County. The new biennial King County GIS O&M Plan continues to be very much a working document, not a plan to sit on the shelf. The information in this document will be used to refine King County GIS through cooperation, coordination, communication and consensus.

Many of the priority initiatives described in this plan build upon those begun in previous years. For example, substantial progress has been made in the quality of the positional accuracy of the County's cadastral layer. Collaboration between King County Assessments and the KCGIS Center will continue these improvements in 2015-16. A high priority initiative replacing iMAP and related applications is scheduled to be completed by the second quarter of 2015. TNET will continue to be updated to meet stakeholder agencies' requirements, and business practices will continue to be adjusted to best utilize TNET data. Other priority initiatives will continue such as the development of a city annexation history layer, the development of regional data layers, and reviewing and describing all urban unincorporated areas in the County.

High priority new initiatives include developing user interface standards for web mapping, and developing one or more minimalist base maps to be served from the KCGIS Center map services.

The initiatives that have been closed out and moved to ongoing maintenance by the KCGIS Center include new strategies for storing, maintaining and serving elevation data and derived products, development of a new master geocoding service, and development of a consolidated wetlands layer. Another completed initiative that will continue is the publication of county base maps to the Esri Community Maps Program, making them freely available to the public with limited impact to county IT resources.

The mutual benefits to be gained from collaboration, cooperation, and consensus should allow KCGIS to achieve the challenging goals set for 2015-16. Adequate funding is always at risk, but the value of GIS in meeting the business needs of the county is immense. KCGIS is prepared for both the challenges and opportunities ahead.

2   Organization

The King County Geographic Information System (KCGIS) is a coordinated program of county agencies working in partnership with the KCGIS Center, the county's provider of enterprise GIS services. The program is aligned to meet the County Executive's vision for King County's GIS to be the premier provider of GIS services in the region.

King County's Chief Information Officer (CIO) is the responsible authority designated by the County Executive as accountable for the KCGIS program. Aiding the CIO in governance of the program are technical and oversight committees.

The KCGIS Center is structured as an internal service fund administered within the home agency of the CIO, the Department of King County Information Technology (KCIT). The enterprise operations provided by the KCGIS Center are funded by over 35 county agencies based on an inclusive cost allocation model. Details about the funding model can be found on the KCGIS Center website (www.kingcounty.gov/operations/GIS/About.aspx).

Agencies with GIS units provide business specific GIS services to their home agency, however in the absence of an agency GIS unit, or when agency-based GIS services are not feasible or practical, the KCGIS Center offers GIS staffing and project services on a cost reimbursable basis.

The KCGIS program is based on the principle that extensive coordination and collaboration occurs between GIS units in the county. This interaction includes most aspects of GIS from servers and software, to data, applications, analysis, reporting, and display. The program is also based on the premise that data are the core asset of KCGIS and every effort is made to freely share and systematically improve the county's GIS data.

The sections that follow in this chapter outline the roles and responsibilities of the various participants in the KCGIS program. The "King County GIS Organization" chart in the back of the document provides an illustration of the KCGIS governance structure and relationships of the participants.

2.1   Chief Information Officer

The Chief Information Officer is the executive sponsor of the KCGIS program and is accountable to the County Executive for the overall performance of the program. The CIO delegates day-to-day monitoring of the KCGIS program to the KCIT DNRP IT Service Delivery Manager who also serves as chair of the KCGIS Oversight Committee. The Service Delivery Manager reports on KCGIS activities and status to the CIO. The CIO has responsibility to decide issues that cannot be resolved by the KCGIS Oversight Committee, to negotiate funding and develop revenues to support the KCGIS program, and to report program progress to the County Executive's Office.

2.2   KCGIS Oversight Committee

The KCGIS Oversight Committee is a chartered group responsible for setting the direction of the KCGIS program. Committee responsibilities include:

- Review and approve the biennial KCGIS Operations and Maintenance Plan.
- Review and approve the biennial budget for the KCGIS Center.
- Develop and recommend the cost allocation and funding model for the KCGIS Center.
- Review and approve standards for policy and technical direction as recommended by the KCGIS Technical Committee.
- Address issues regarding enforcement and use of standards and best practices escalated from the KCGIS Technical Committee.
- Resolve issues escalated from the KCGIS Technical Committee.

KCGIS Oversight Committee membership consists of a single representative from each of the following agencies: Department of Natural Resources and Parks, Department of Transportation – Road Services Division, Department of Transportation – Transit Division, Department of Permitting and Environmental Review, and Department of Assessments. Members of the KCGIS Oversight Committee representing these agencies have the option to appoint one temporary member for a one-year term from other agencies or programmatic areas that have significant involvement in GIS. Currently, the Department of Executive Services is filling the temporary seat. Members of the KCGIS Oversight Committee must have authority for budget approval and policy decisions of GIS programs within their agency. Members of the KCGIS Oversight Committee may not serve on the KCGIS Technical Committee at the same time. The DNRP IT Service Delivery Manager, serves as the DNRP representative and permanent chair of the KCGIS Oversight Committee. Issues that cannot be resolved by the KCGIS Oversight Committee are escalated to the CIO for a decision. The KCGIS Oversight Committee is required to meet at least twice per year.

The KCGIS Oversight Committee charter and 2014 and 2015 committee member listings can be found in Appendix C.

2.3 KCGIS Technical Committee

The KCGIS Technical Committee is a chartered committee accountable to the KCGIS Oversight Committee. Responsibilities of the KCGIS Technical Committee include:

- Coordinate KCGIS Center and agency GIS unit work programs and develop a biennial KCGIS Operations and Maintenance Plan for review and approval by the KCGIS Oversight Committee.

- Recommend policy for GIS technology to the KCGIS Oversight Committee.

- Monitor the use of approved GIS standards and best practices and escalate enforcement issues to the KCGIS Oversight Committee.

- Inventory existing GIS data and applications and coordinate data and application development efforts.

- Provide a forum for discussion of GIS technical issues and address programmatic issues.

- Educate agencies about the value GIS will add to business practices.

- Develop and recommend GIS standards and best practices for the KCGIS program to the KCGIS Oversight Committee.

Membership in the KCGIS Technical Committee is based on the presence of a GIS work program within an agency. Presence of a work program is generally defined as an agency having at least one staff member making use of desktop GIS software. Each agency with a GIS work program is granted one seat on the committee. This table lists the 17 agencies currently represented on the committee. One additional seat on the committee is allocated to the KCGIS Center.

Assessments	DNRP-Parks and Recreation	DOT-Information Technology
Council	DNRP-SWD	Elections
DCHS	DNRP-WTD	OPSB
DES-Facilities Management	DNRP-WLRD	Public Health
DES-E911 Program	DOT-Airport	Sheriff's Office
DPER	DOT-Road Services	KCGIS Center

The membership of the KCGIS Technical Committee is reviewed and updated annually. A responsible authority within each participant agency appoints the KCGIS Technical Committee member. Committee members may not serve on both the KCGIS Technical Committee and the KCGIS Oversight Committee

simultaneously. The KCGIS Technical Committee elects a chair and vice chair annually. Issues that cannot be resolved by the KCGIS Technical Committee are escalated to the KCGIS Oversight Committee. The KCGIS Technical Committee is required to meet at least once per month.

At its discretion the KCGIS Technical Committee may create work groups for detailed analysis of significant organizational and technical issues. Details about current work groups can be found in Appendix C. Participation in a work group is not restricted to members of the KCGIS Technical Committee. The work groups are created to accomplish a set of objectives and the KCGIS Technical Committee reorganizes or disbands the work groups as needed.

The KCGIS Technical Committee charter and the 2014 and 2015 committee membership can be found in Appendix C.

2.4 Agencies

All aspects of the KCGIS program are addressed through the consolidated governance structure of the technical and oversight committees, and are resolved by active agency participation. Agency GIS programs work together formally via the KCGIS Technical Committee, and informally via user groups, work groups, ad hoc committees, and routine business contact. An agency's responsibilities to the KCGIS program include:

- Develop and submit a biennial work plan for review and inclusion in the KCGIS Operations and Maintenance Plan.
- Develop and maintain GIS data necessary to support agency business needs, and when compatible, the needs of other data stakeholders.
- Articulate agency GIS business needs to the KCGIS community.
- Comply with GIS standards and best practices approved by the KCGIS Oversight Committee.
- Ensure all agency data appropriate for sharing is integrated into the KCGIS Spatial Data Warehouse (SDW).
- Actively seek opportunities for cross-agency collaboration on data and application projects.
- Ensure data development and data maintenance tasks are quality controlled and completed on schedule.
- Ensure agency GIS personnel maintain sufficient levels of professional expertise.
- Work cooperatively in support of the regional KCGIS services vision.
- Actively participate on KCGIS committees and work groups.

2.5 KCGIS Center

The KCGIS Center provides enterprise services for the KCGIS program, fee-based client services to internal and external customers, and dedicated matrix staffing to county agencies. The KCGIS Center work program is developed under the guidance of the KCGIS governance committees. The mechanism to accomplish this is the biennial Operations and Maintenance (O&M) Plan developed by the KCGIS Technical Committee and approved by the KCGIS Oversight Committee.

Responsibilities of the KCGIS Center include:

- Manage the KCGIS Spatial Data Warehouse infrastructure.
- Provide data coordination services to ensure KCGIS data development and data maintenance activities are performed in an efficient manner and occur as planned.
- Facilitate integration of quality controlled agency data into the KCGIS Spatial Data Warehouse.
- Report data maintenance issues and concerns to the KCGIS Technical Committee.

- Set up and manage data acquisition and data sharing agreements with external agencies and coordinate response to external data requests.

- Provide tools for developing, maintaining, and accessing KCGIS metadata.

- Provide public access to GIS data.

- Maintain a record of and comply with the GIS standards and best practices approved by the KCGIS Oversight Committee.

- Provide contract administration for GIS software and consultant services.

- Actively participate on KCGIS committees.

- Market regional GIS services in coordination with King County agencies.

- Provide GIS training services to professionals and end-users.

- Provide a single point of contact for access to KCGIS client services.

- Provide GIS expertise to agencies as requested.

- Coordinate the evaluation of technical options with agency GIS programs and the KCGIS Technical Committee.

- Implement and maintain the architectural and system standards approved by the KCGIS Oversight Committee.

- Maintain a common application development environment.

2.6 KCGIS Budget and Funding

This section provides an overview of budgets, funding mechanisms, and financial resources for the KCGIS program. Beginning in 2015 the entire county, including the KCGIS Center, is on a biennial budget. The tables and diagrams referenced in this section can be found in the Appendix at the back of the printed version of the GIS O&M Plan.

Appendix 8.1 – 2015-2016 KCGIS Consolidated Budget
http://your.kingcounty.gov/ftp/gis/Web/Documents/OM_2015-16_App8-1.pdf

This table outlines the approved 2015-2016 budgeted funding for operation of the KCGIS Center and for county agencies that utilize GIS. It shows agency budgets for internal GIS services and estimates the cost for users within agencies to put certain GIS tools and services to use. It also provides other agency GIS financial and usage metrics, as described below.

Agency Identification:

1. Agency Common Name: This is the agency name or acronym in common use.

2. Agency EBS/Budget System Name: This is the name that is used within the county financial system for the specific cost center where agency costs for KCGIS are budgeted. It is shown on this table to correspond to the heading on financial reports that might be generated from EBS.

3. Agency POETA organization (O) and project (P): This is the county EBS financial system coding to designate where the agency's share of KCGIS costs are budgeted. This coding will be used for billing agencies by the KCGIS Center, unless notified otherwise by the agency.

Agency GIS Rates/KCGIS Center Revenue:

4. 2015-2016 GIS O&M revenue/agency rates: The dollar amounts shown are the revenue due to the KCGIS Center as part of the O&M funding model (revenue account code 44020). The corresponding rate in each agency's budget (expense code 55026) includes an additional 6.24% for KCIT Mandated and Business Foundation (M&BF) costs. KCGIS Center O&M expenses are 'fixed costs' funded by agencies on a share model basis determined annually. The share model is developed by the KCGIS Center and reviewed and approved by the KCGIS Oversight Committee (subject to normal county budget development procedures). O&M cost share transfers from agencies are executed via EBS 'Usages' by the KCGIS Center based on budgeted amounts at agreed schedules spread across the biennium.

5. 2015-2016 GIS Client Services revenue/agency rates. The dollar amounts shown are for revenue budgeted by the KCGIS Center (revenue account code 44021) in four subcategories and the total GIS client services budget for each agency

(expense code 55051). The four subcategories are a) budget for on-demand client services, billed as agreed work is completed, b) budget for Countywide KingStat performance management GIS services, billed on a fixed periodic basis for the KingStat program pre-paid client services account, c) budget for dedicated GIS and related software provided by the KCGIS Center for the agency, and d) budget for agency share of pooled Esri software usage costs (with c) and d) billed on a fixed periodic basis throughout the biennium to reimburse KCGIS license payment costs.

6. KCGIS Center Client Services hourly costs (5.a, above) are provided on a 'full cost reimbursement basis', billed to agencies as work is completed. Agencies can also prepay for client services to allow budgeted funds to be used in the coming year. Most client services are billed by the hour. KCGIS GIS training is provided on a per seat cost basis for each class. Client services are generally billed to King County agencies via project billing statement invoice and interfund transfers are executed by 'usages'. Outside agencies are billed via invoice and pay by check. Credit card payment capability for external client services customers is planned for 2015.

7. 2015-2016 Matrix Staff Services revenue/agency rates. The dollar amounts shown are for four summary expense categories and the total revenue budgeted by the KCGIS Center (revenue account code 44022) and the total GIS matrixed staff services budget for each agency (expense code 55052). The four expense categories are a) GIS staff labor, b) management and administrative staff labor, c) other direct costs, and d) county overhead and central rate costs.

8. KCGIS Center Matrix GIS Staff Unit operations are funded on the basis of 'negotiated annual level of service costs' allocated to divisions in DNRP, DOT Roads, DOT Airport, OPSB, and DPER that receive services. Matrix GIS staffing services cost share transfers from agencies are executed via EBS 'Usages' by the KCGIS Center based on budgeted amounts at agreed schedules spread across the biennium.

9. Total KCGIS Center revenue/agency rates. This dollar amount is the total revenue budgeted from each agency.

10. Note that the KCGIS Center Budget also assumes revenue from unbudgeted sources, both from within and from outside the county.

Agency GIS Budgets and Usage Costs Estimates:

11. Agency GIS Unit costs are budgeted internally for those agencies that maintain their own separate GIS service operations.

12. 2015-2016 User Agency GIS Staff Costs: These numbers represent total staff costs (including salary and benefits) for agency GIS staff. In some cases these costs are based on figures received directly from the agency for their 2015-2016 budget. Where agency provided costs are not available, the labor costs are shown in italics font and are estimated based on the number of agency FTE"s multiplied times 90% of the average KCGIS Center FTE labor cost.

13. 2015-2016 User Agency ODC (other direct costs): These numbers represent known agency budget allocated for other non-labor GIS purposes. In some cases these costs are based on figures received directly from the agency for their 2015-2016 budget. Where agency provided costs are not available, the 2013 reported costs are shown in italics.

14. 2015-2016 web mapping usage costs: This represents an estimate of the labor cost to use KCGIS web mapping applications within the agency. These costs are estimated by reducing the total web mapping user sessions within the agency to a labor cost basis. Usage is based on countywide web application software analysis for 2013. Each usage session is converted to hours of usage, multiplied times 70% of the average KCGIS Center FTE labor cost.

15. 2015-2016 desktop GIS usage costs: This represents an estimate of the labor cost to use desktop GIS or GIS enabled software within the agency. These costs are estimated by assuming that each equivalent GIS desktop (based on 2013 actual usage and 2015-2016 budgeted allocations) is used 20% of the time. This usage is converted to hours of use per FTE, multiplied times 80% of the average KCGIS Center FTE labor cost.

16. 2015-2016 Total internal Department GIS Usage cost: This represents an estimate of the cost for the agency to use GIS internally, including agency GIS staff costs, agency GIS ODC"s, web mapping staff usage costs, and desktop GIS staff usage costs. It does not include agency matrixed GIS staff or client services costs.

Other Agency Metrics

17. Department cost as a percent of GIS O&M Cost: This is a statistical analysis of the relationship between total agency GIS usage costs (Ref 16), plus budgeted GIS client services (Ref 5) and matrixed GIS staff (Ref 7) costs, divided by the agency's total GIS O&M budget (Ref 4). Assuming that expenditure on GIS within agencies delivers significant ROI, a higher number would likely indicate higher levels of benefit from GIS within the agency.

18. 2015-2016 Agency Training Credits: This indicates the total training credits in dollars that each agency has for KCGIS Center training in 2015-2016. These credits are held within the KCGIS Center Dedicated Prepaid Client Services Reserve Fund. As credits are used, they are deducted from the fund throughout the year. These credits are in addition to any other training funds an agency might have.

19. 2015-2016 Agency Prepaid Client Services: This indicates the total prepaid client services budget that each agency has for 2015-2106, held within the KCGIS Center Dedicated Prepaid Client Services Reserve Fund. As work is completed for clients, the costs are deducted from the fund throughout the year. These funds are in addition to any other client services funds an agency might have.

20. 2015-2016 Staff matrixed from KCGIS Center by agencies. This indicates the total staff in FTE equivalents matrixed from the KCGIS Center in 2015-2016.

21. 2015-2016 User Agency GIS staff: This indicates the total equivalent GIS FTE staff within each agency.

22. 2013 User Agency GIS web mapping user sessions: This indicates the number of KCGIS web mapping user sessions recorded in 2013 for each agency. This information is used to calculate the web mapping application user costs (Ref 14).

23. 2013 user agency ELA GIS desktop usage: This indicates the minutes of KCGIS ELM based Esri GIS software usage recorded in 2013 for each agency. This information is used to calculate part of the desktop GIS user costs (Ref 15).

24. 2013 user agency GIS desktop users: This indicates the equivalent GIS desktop software budgeted in 2015-2016 for each agency. This information is used to calculate part of the desktop GIS user costs (Ref 15).

At the beginning of 2015 agencies will approve billing their budgeted GIS O&M, Matrix Services, KingStat funding, and dedicated ELA-based GIS software rates to an agreed schedule for the entire biennium. Interfund transfers will be executed via 'Usages' within EBS at the schedule frequency agreed with individual agencies, in compliance with King County Ordnance 2001-0555 and Executive Policy FIN 15-4. Client services hourly costs will be invoiced to customers with agency payments executed via usages.

Appendix 8.2 – KCGIS Center 2015-2016 Adopted Budget Rates Overview
http://your.kingcounty.gov/ftp/gis/Web/Documents/OM_2015-16_App8-2.pdf

This diagram provides an overview of the relationship between the KCGIS Center expense budget and rates charged to individual county agencies and external customer to cover the costs. On the diagram, color is used to classify expense and revenue categories and line widths correspond to dollar amount, to provide a graphic depiction of level of effort and funding shares. Components of the table include:

- GIS Expenditure Categories: summarize the three major cost categories (labor, other direct costs, and central rates/overhead). It also illustrates the additional 6.24% added to KCGIS Center rates to reimburse KCIT for certain mandated and business foundation (M&BF) costs.
- Service Category Expense Budgets: Cost and FTE allocation for the three KCGIS Center Business Lines
- GIS Service User Categories: Shows the connection between costs by the three Business Lines and allocated funding mechanism.
- KCGIS Center Customers: Shows the relative share of budgeted funding for each county agency by types of service categories.
- Additional Rate Basis Overviews: Describe the allocation methodology for costs that drive the rates charged for each Business Line.
- GIS Fund Reserve Transactions: Illustrates the fund reserve transactions that affect agency rates.

Appendix 8.3 – 2015-2016 KCGIS Center Financial Plan
http://your.kingcounty.gov/ftp/gis/Web/Documents/OM_2015-16_App8-3.pdf

This table details the adopted financial plan. The plan illustrates beginning fund balance, revenues, expenditures, reserve balances, and ending fund balance. It covers an eight year timeframe, starting with the 2013-2014 budget, 2013-2014 BTD actual figures, and 2013-2014 biennium estimate; shows the 2015-2016 adopted budget; as well as projections for the following two biennium.

3   KCGIS Priority Work Initiatives

In coordination with development of the annual GIS O&M plan, the KCGIS Technical Committee identifies priority work initiatives to pursue. The priority initiatives described here represent a continuation of efforts begun in earlier years and new work that has recently become a focus.

The Technical Committee generally pursues work initiatives that can be accomplished using existing staff and budget resources. A large share of the work is carried out by KCGIS Center staff allocated to support the priority initiatives. For 2015-2016 the support level from the KCGIS Center is approximately 2.0 FTE. An important factor in successful completion of the priority work initiatives is contribution from staff in other King County agencies. Therefore, Technical Committee members acknowledge there is a commitment to provide access to key staff within their agencies to help ensure the objectives of the priority work initiatives are met.

The work initiatives are administered by the KCGIS Center. Regular and periodic project reporting to the Technical Committee is required. As an aid to the reporting process each initiative is assigned a tracking code. Codes beginning with "O" indicate initiatives primarily associated with organizational issues. Codes beginning with "D" indicate initiatives primarily associated with a data issue, and codes beginning with "A" indicate initiatives primarily associated with software application development.

In order to provide guidance to the KCGIS Center for allocating resources among the priority initiatives the Technical Committee conducts an advisory vote. Each member of the committee is allocated five votes. The votes are weighted, with a member's top priority receiving five points, the second priority four points, the third priority three points, and so on. Regardless of the outcome of the advisory vote, any initiative the Technical Committee has decided to carry forward remains on the list. However, any newly proposed initiative that does not receive any points in the voting is dropped from list of priorities. The vote for the 2015-2016 O&M Plan was conducted at the December 9, 2014 meeting of the Technical Committee. The initiatives are described below, presented in descending order based on the number of points received. The points received are shown in parenthesis to the right of the initiative title.

A-12   Develop iMap Replacement Applications – (65)

Background: iMap is a popular Internet mapping application developed by the KCGIS Center that provides a rich environment of map functionality and in-depth land information for both members of the public and King County employees. However, iMap is based on ArcIMS technology which is no longer supported by Esri. Continuing to deploy and maintain this ArcIMS application will become increasingly problematic. Based on the current approach a handful of applications will be created to replicate the functionality of iMap. What is created will by necessity quite different from the existing application. In 2012 a KCGIS Center work group was formed to develop recommendations and requirements for a new iMap. The replacement iMap applications are underdevelopment with completion scheduled for the end of 2014.

Objective: This initiative will develop and implement applications to replace the functionality of iMap. Beta versions will be deployed and end-users and the KCGIS Technical Committee will have the opportunity to provide feedback for the refinement of the applications. Once all practical requirements have been met by the new applications the ArcIMS version of iMap will be retired.

Who would perform most of the effort: KCGIS Center

Requires ongoing KCGIS Center O&M: Yes for application support and maintenance

Level of effort: High

Sponsor: George Horning, KCGIS Center

D-5   Cadastral Accuracy Improvements – (52)

Background: The positional accuracy of King County's parcel data varies. Some areas are of poor quality and need improvement to align with more accurate data collected by GPS or survey methods. Several cities have sought positional improvements on their own and maintain their own

version of parcel data. Opportunities to collaborate with cities to improve the county's parcel data are being pursued. The first of these efforts began in 2006 with an agreement between the city of SeaTac and Assessments. Since then several other cities have provided data or participated with the county in cadastral data improvement efforts. Substantial progress has been made, but much work remains. One outcome of the accuracy improvements is that boundaries tied to parcel features that are maintained as separate layers may no longer align properly with the parcel data. These boundaries then need adjustment. A systematic method to track changes to the cadastral data and notify data stewards of those changes needs to be developed.

Objective: The KCGIS Center and the Department of Assessments will continue to work together to find opportunities to improve the positional accuracy of the parcel data. Efforts underway with a handful of cities will continue. Other cities will be contacted to determine their interest in similar work. The KCGIS Center will continue to provide staff resources on a limited but steady basis to work on targeted areas of the county. Efforts will be focused where accurate data are available and/or positional errors are significant. A change tracking mechanism will be developed as an aid to data stewards in other agencies.

Who would perform most of the effort: KCGIS Center and Assessments

Requires ongoing KCGIS Center O&M: No

Level of effort: High

Sponsor: Christie Most, Assessments

A-14   Develop User Interface Standards for Web Mapping – (30)

Background: By adopting a user interface standard and controls, developers across the county could implement well-designed web mapping applications and reuse custom controls which should create efficiencies. The benefit would be to have a common experience across public facing web mapping applications, allowing the public to go from application to application without having to learn how to interact with each application. This approach would also provide a particular "King County web map app" branding and high standard.

Objective: To adopt existing, or develop new, user interface standards using common controls and common interface look and feel. This includes control utility and page placement recommendations.

Who would perform most of the effort: KCIT-DOT-IT

Requires ongoing KCGIS Center O&M: No

Level of effort: Medium

Sponsor: Matt Kozleski, KCIT –DOT-IT

D-19   Develop One or More Minimalist Base Maps to be Served from the KCGIS Map Services – (26)

Background: Many users are moving towards mobile devices which have small screens. Many county web pages benefit from simple maps that show context but really showcase one or a small number of map features. The current KCGIS base map works well for many maps and mapping applications however a simpler version of the base map would serve both segments of users that benefit from a simple backdrop on which to showcase their data.

Objective: The objective of this initiative is to develop one or more base maps with minimal information and a subdued visual impact that will work well in both the mobile (small screen) environment and can be used as a back drop for visually simple maps.

Who would perform most of the effort: KCGIS Center

Requires ongoing KCGIS Center O&M: Yes

Level of Effort: Medium

Sponsor: Christie Most, DOA

D-8   **TNET Data Enhancements – (21)**

Background: TNET is the authoritative transportation network to be used by county agencies. Although the data quality for unincorporated King County has greatly improved, many regions that are not served by transit are in need of review and enhancement.

Objective: The KCGIS Center, DOT IT and the Roads Services Division will continue to work together to find opportunities to improve the positional accuracy of the TNET data. Efforts underway with cities that are active TNET Consortium members will continue. Other cities will be contacted to determine their interest in joining the editing consortium. The KCGIS Center will continue to provide staff resources on a limited but steady basis to work on targeted areas of the county. Efforts will be focused where accurate data are available and/or positional errors are significant. A change tracking mechanism will be developed as an aid to data stewards in other agencies.

Who would perform most of the effort: DOT IT, DOT Road Services, and KCGIS Center

Requires ongoing KCGIS Center O&M: No

Level of effort: Medium

Sponsor: Matt Kozleski, KCIT-DOT-IT

D-18   **Review and Describe All Urban Unincorporated Areas – (13)**

Background: The most convenient representation of the Urban Unincorporated Areas is the Potential Annexation Area (PAA) layer. It has been maintained in support of the King County Comprehensive Plan for several years as a planning resource at a level of detail that supports an 11x17 map of western King County. With the publication of comprehensive planning layers and maps on the Internet has come an increased level of scrutiny. Detailed questions are routinely raised that the historic comprehensive planning layer is not specific enough to resolve. At the same time the efforts of Assessments to enhance the accuracy and precision of the Incorporated Areas layer is uncovering small portions of the county that are not incorporated, but have not been shown in the PAA layer historically. Recently the development of a Community Services Area layer as created a dependency on the PAA layer for the Western King County Community Service Area that will bring even more attention to the PAA layer.

Objective: Using the Urban Growth Area layer and the City Annexation Area, identify all portions of King County that are shown in the GIS as unincorporated and Urban. Form a small group of experts from different KC agencies including OBSP, DPER, KCGIS Center, Roads, etc. to determine if each area: is truly unincorporated; is truly designated urban; can be corrected as a GIS layer error; should be corrected as a Comp Plan amendment; is accurately captured in relation to rights-of-way; and is one of a small number of parks that will remain Urban and Unincorporated for the foreseeable future. At the same time each valid remaining area will be marked as having population or not, as that information will be used to update the Community Service Areas.

Who would perform most of the effort: KCGIS Center, OBSP, and DPER

Requires ongoing KCGIS Center O&M: No

Level of effort: Medium

Sponsor: Paul McCombs, KCGIS Center

D-14   Develop Regional Layers – (20)

Background: Most local government GIS data is developed by a single agency to cover their area of interest, which typically ends at the limits of their jurisdiction. With rare exception, little effort has been made to create regional data layers that extend across jurisdictional boundaries. Positional mismatches and differences in coding of attributes are common problems.

Objective: The objective of this initiative is to identify and prioritize the core data layers suitable for development as regional layers, and then to put in place a process to build out those layers.

Who would perform most of the effort: KCGIS Center

Requires ongoing KCGIS Center O&M: Yes

Level of effort: High

Sponsor: Nanette Lowe, OPSB

D-13   Complete Development of the Annexation History in the City Boundary Layer – (8)

Background: The authoritative city annexation layer contains only a partial history of annexations, those required for the business needs of Assessments and DPER. Because of continuous improvement to cadastral features, annexation detail must be continually adjusted to match. Therefore, it is impractical to maintain a complete annexation history conflated to current cadastral features. However, various analyses involving historic annexation boundaries are currently prohibitively labor intensive because a complete annexation history is not present.

Objective: This initiative would dedicate KCGIS Center staff resources to systematically complete the entry of annexations history into a new GIS layer that would be auxiliary to the authoritative city annexation layer; and an automated script that would periodically copy new annexation data from the city boundary layer to the annexation history layer. Annexation history details that are not present in the authoritative annexation history layer will not be conflated to current cadastral features (e.g. parcels).

Who would perform most of the effort: KCGIS Center and DPER

Requires ongoing KCGIS Center O&M: No

Level of effort: High

Sponsor: Paul McCombs, KCGIS Center

4 Work Plan

Chapter 4 of the 2015-2016 KCGIS O&M Plan provides details of the GIS work plans for the KCGIS Center and the KCGIS Technical Committee member agencies. Each agency work plan is described separately using the same outline progression to standardize work plan descriptions and to ease comparison across agencies.

Work plan descriptions are introduced with background information to clarify the purpose and objectives of the agency's GIS program, and to broadly describe how GIS activities within the agency are coordinated and managed. This introductory section typically includes description of the agency's mission and primary business responsibilities. The discussion provides detail about the strategies employed by the agency to deliver GIS services to various business functions, with an emphasis on the opportunities and challenges related to providing GIS services, cross-agency issues and dependencies, long-range goals and initiatives, and the role of the agency in the wider scope of the KCGIS program. The remainder of each agency section is focused on planned GIS activity for the year including projects, data and application development or enhancement, and changes to GIS hardware, software, or staffing.

Each agency program is presented as a separate subsection of this chapter, and programs within the same department occur sequentially. Due to its unique status as the enterprise GIS unit, the KCGIS Center is presented first.

4.1 King County GIS Center

4.1.1 Agency GIS Overview, Priorities, and Goals

- The King County GIS Center's mission is to deliver efficient, high-quality GIS technology solutions to King County agencies, the public, and our regional partners, in order to meet the needs of King County government and the communities we serve. To carry out this mission the KCGIS Center works with the KCGIS governance committees, and King County departments and their GIS programs to provide enterprise GIS services, on-demand GIS client services, and matrix GIS staff services. The core value of the KCGIS Center is to provide services that are accurate, consistent, accessible, affordable, and comprehensive.

- The KCGIS Center is an internal service fund administratively assigned to the Department of King County Information Technology (KCIT). The KCGIS Center Manager handles daily operation and strategic direction for the KCGIS Center and is a member of the KCGIS Technical Committee. The KCGIS Center Manager reports to the KCIT-DNRP IT Service Delivery Manager, who in turn reports to the county's Chief Information Officer. The IT Service Delivery Manager serves as chair of the KCGIS Oversight Committee.

- The KCGIS Center has 28 staff positions for 2015-2016 biennium organized into three business units; Enterprise Operations, Client Services, and Matrix Staff Services. This staffing level is the same as for 2013-2014. Further details regarding staffing can be found in Section 4.1.4.

- ***Enterprise Operations –*** The Enterprise Operations unit provides management, administrative, and technical services to support the KCGIS program. The management and administrative functions of Enterprise Operations are primarily carried out by the KCGIS Center Manager, the Marketing & Finance Manager, the Enterprise Services Manager, and the Office Manager. Fifty percent (50%) of the Office Manager's time is loaned out to KCIT-DNRP. Services provided by this group include staff management, program development and strategic planning, budgeting, financial services, marketing, administrative and clerical support, enterprise coordination, contract management, and data acquisition. Financial services includes management of the KCGIS internal service fund, budget development, billing for cost shares and services, financial expenditure controls, and financial reporting (including grant administration). The marketing efforts promote use of KCGIS products and services and further the vision of the KCGIS Center as a regional service provider to public agencies, private firms, and citizens. The technical functions of the Enterprise Operations Unit are provided by GIS analysts and project managers and include GIS data coordination and validation, spatial data warehousing, database administration, website management, application development, and infrastructure management. Other technical services of this group include administration and publishing of GIS metadata, maintenance of the KCGIS data download website, imagery acquisition and processing, and data integration and quality control for the cadastral maintenance lifecycle. Members of this group also provide on-call support services during off-hours. The KCGIS Center Manager oversees day-to-day operation of Enterprise Operations and directs long-term and strategic planning. The IT Service Delivery Manager provides technical guidance to Enterprise Operations and coordinates implementation and maintenance of the KCGIS Center's technology within the larger framework of the county's information systems.

- ***Client Services –*** The Client Services unit offers GIS consulting and project services on an hourly cost-reimbursable basis to King County agencies and external customers. The hourly labor rates are based on a tiered pricing structure, which is detailed in Appendix B. The Client Services Manager supervises the unit and initiates and coordinates service delivery, which is fulfilled by drawing on the specialized skills of staff throughout the KCGIS Center. For additional details on the services provided by Client Services see Appendix B: KCGIS Center Services.

- ***Matrix Staff Services –*** The Matrix Staff Services unit provides GIS staff support to King County work programs based on mutually agreed service levels. For the 2015-2016 biennium the KCGIS Center is allocating staff to eight work programs in three departments (DNRP, DOT, DPER) and

one office (PSB). Program managers, either from the agency receiving support or from the KCGIS Center, are assigned to oversee each work program. These managers coordinate to draw from a pool of KCGIS Center staff resources. Matrix Staff Services personnel are generally assigned to a single work group, however the matrix staffing strategy allows program managers to share the pooled resource to optimize response to project demands. The KCGIS Center Manager administers Matrix Staff Services and is responsible for supplying and maintaining the matrix resource (namely the GIS staff). Specific duties of the administrator include establishing technical and quality standards for the GIS services, ensuring matrix personnel have the necessary training and resources to perform quality work, and balancing staff allocations across programs to meet work plan requirements. The GIS program managers have responsibility to develop and execute their respective matrix staffing work plans, and coordinate with the KCGIS Center Manager to obtain the appropriate GIS staff resources to meet their program objectives.

- ▪ ***Strategic Initiatives*** – The KCGIS Center has a number of key initiatives underway that will continue in the next biennium. These include three allied management initiatives; capacity planning, domain architecture, and capability and maturity assessment. We are also engaged in a series of technology focused initiatives; cloud services, application standardization, desktop software modernization, and mobility.

  - o Capacity Planning – It is challenging to provide the GIS data storage and server capacity necessary to support the county's ever growing need for GIS data and services. In response the KCGIS Center is engaged in an ongoing capacity analysis process with a two to three year planning horizon. This process assesses our current infrastructure in relation to trends in GIS usage and technology. The specific focus is on planning for and procuring adequate data storage to eliminate any bottlenecks in availability of data, and on ensuring we have a server environment that is robust, optimized, and does not hinder business workflows.

  - o Domain Architecture – GIS is one of several domains defined within King County's IT enterprise architecture. Each domain is to conduct an analysis of its current state, define a desired future state, conduct a gap analysis between the future state and the current state, and build a road map to guide the domain's technology and services forward by producing actionable projects and strategies. Included in this exercise are defining overarching principles, best practices, and standards that can be applied to the domain.

  - o Capability and Maturity Assessment – The GIS Management Institute (GMI) provides a methodology for organizations to measure the competency and effectiveness of their GIS operations. Using the methodology the KCGIS Center will complete and submit an organizational assessment and receive feedback on the effectiveness of our management of GIS and a comparison of our operations against peer agencies. The feedback will provide a measure of our maturity and capability as a GIS organization and guide us towards improvements in our management practices. Along with capacity planning and domain architecture this is the third leg of the KCGIS Center's management initiatives to improve on the County's return on investment in GIS technology.

  - o Cloud Services – The County's recent agreement with Amazon Web Services (AWS) provides an opportunity for the KCGIS Center to assess the viability and cost effectiveness of using cloud technology for various data, application, and backup services. We need to determine the suitable business cases for storage and retrieval of raster and vector data in the cloud, and under what scenarios the cloud can serve as an emergency backup solution for data and services. We also need to determine if public facing and/or internal GIS applications can be effective cloud-based solutions.

  - o Application Standardization –Staff members skilled in the development of GIS applications are in high demand in the KCGIS Center. To ensure those individuals are as effective and efficient as possible we have placed an emphasis on mentoring and collaboration. The next steps in the maturation of our application development services are a focus on common software development skillsets, adoption of standards for coding

and application documentation, and implementation of tools for code security and collaboration (for example Team Foundation Server).

  o Desktop Technology Modernization – GIS desktop software is undergoing a sea change. Esri is soon introducing a new desktop solution known as ArcGIS Pro. To use this product effectively will require a new round of training and customization.

  o Mobility – Browser-based, device independent solutions and tools are needed to support not just the County's mobile workforce, but also citizens and businesses needing to access GIS services over their smart phones and tablets. The KCGIS Center will focus on providing solutions to meet this need.

4.1.2   Ongoing and New Projects

Name	**Data Coordination Priorities**

Description	Schedule agency site meetings, with the goal of meeting with all agencies at least once during each calendar year. During 2015-16, in addition to coordinating on migration issues, the focus will be on data quality and improvements in data and metadata posting workflows. Agency data will be reviewed for possible inclusion in the Spatial Data Warehouse. These visits will also provide a feedback mechanism where agencies can comment on the KCGIS Center's performance on database and data issues. Each meeting will report out a task list for follow-up action. A SharePoint collaboration site will be used to improve communication, tracking and reporting.
	
	 Build on the progress of the Data Handling Team, formed in 2014, to continue with its layer-by-layer evaluation to: (1) extend and detail the preliminary ranking given in the data review portion of the GIS Capability Maturity Model, and (2) develop a list of data-related action items from each review, assigning each item a priority rating. Evaluations will focus on the accuracy of the geometry and attributes of each layer and what quality assessment workflows are in place to ensure the necessary accuracies.
	
	 Coordinate on development of workflow and scripts to inventory ArcGIS Server applications for data dependencies. This could be used to create a tiered notification system where mission-critical changes are broadcast in a timely manner to the necessary contacts, while lower-priority information is delivered in a method appropriate for its significance.
	
	 Support the KCGIS Technical Committee's current and new data related priority initiatives.
	
	 In addition to these preceding general goals, focus on these additional data coordination priorities through initiatives across all three components of the enterprise Spatial Data Warehouse:
	
	 Enterprise:
	
	 • Periodic reporting to stewards for the following:
	
	   o Metadata Quality/Completeness Report – weekly
	
	   o Agency Review Report – quarterly
	
	   o MAINT DB Review Report – semi-annually
	
	   o Agency Data Holdings – annually
	
	   o These reports will serve as a tool to coordinate with stewards on a periodic basis on data topics of importance. It will allow continual

<table>
<tr><td></td><td>overview of development and production data, the state of its metadata, and any other issues highlighted by the reporting.

• Maintain currency of GIS Data Archive and Historic repositories, as well as GIS Data Portal. Extend Portal to host selected historic data. Evaluate options to host selected raster data. Enhance existing tools for validating content.

• Reorganize and revamp data tools and resources, currently delivered via the internal Spatial Data Catalog page. This task will also include reevaluation of content in the Resources folder.

NonKCGIS:

• Develop and implement procedures to review and clear out stale, non-KCGIS data from the SDW.

• Complete portal to provide steward access to archived (offline) NonKCGIS data.

• Revise the GIS Data Locator workflow to incorporate a comprehensive listing of NonKCGIS data.

Raster (including Project Image Library):

• Redevelop workflows for documenting and publishing project imagery data.

• Review Spatial Data Catalog (SDC) webpages for correct representation and correlation of metadata to data. Unlike enterprise vector metadata which is automated against its control table, raster metadata requires manual oversight.

• Coordinate with other agencies on standardizing support and publication for vector data to Pictometry Online.

• Complete reorganization and population of the satellite imagery portion of the SDC.</td></tr>
<tr><td>Interdependencies</td><td>Coordination and scheduling with KCGIS agency data stewards and other key stakeholders (users, developers, and DBAs), as necessary.</td></tr>
<tr><td>Status</td><td>In progress.</td></tr>
<tr><td>Target</td><td>Ongoing through 2016.</td></tr>
<tr><td>Activity</td><td>▪ KCGIS Center DBA and Data Coordinator set up schedule for site visits. Develop standing item agenda to be supplemented with agency-specific topics. Follow up on specific task items

▪ Continue metadata quality assessment and other reporting to data stewards.

▪ Review and remove stale non-KCGIS data from SDW.

▪ Work on new data set issues as determined by feedback from site visits, and as forwarded by the KCGIS Technical Committee.</td></tr>
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Name	**Imagery Project Management**
Description	King County is the lead agency and fiscal agent for a consortium of over 50 entities covering a four county area that will acquire aerial orthoimagery in the spring of 2015. Across the collection area resolution will vary from 3" to 6" to 12", with the highest resolution collected in urban areas. Supplement products such as digital elevation models, rooflines, and impervious surface will also be delivered to entities requesting those services. Project planning is ongoing in 2014. An RFP will be released in June 2014, with bid award expected in the fall. The benefits to the county for the imagery consortium are significant cost savings through shared funding, and the ability through the cost saving to acquire higher quality imagery.
	The county will continue to acquire oblique imagery from Pictometry at two year intervals. Resolution will be 3" and 9". Pictometry acquisitions are countywide and will also occur in 2015 (leaf-off) and 2017 (leaf-on). Oblique imagery is critical for situational awareness for emergency response.
Interdependencies	Continued commitment of consortium members to participate. Favorable pricing obtained through the RFP process. Reliance on vendor to perform up to expectations. Suitable weather during collection windows.
Status	In progress.
Target	Q1 2015 – Complete acquisition of orthoimagery.
	Q4 2015 – Accept delivery of final orthoimagery
	Q1 2016 – Accept delivery of supplemental products and close project.
Activity	▪ Project management for 2015 acquisition in coordination with KCIT PMO and consortium members.
	▪ Data review and acceptance of 2015 imagery products.
	▪ Project management for 2015 Pictometry acquisition.
	▪ Data review and acceptance of 2015 Pictometry products.
	▪ Project planning for acquisitions beyond 2015.

Name	*PostRep* **Enhancements**
Description	The *PostRep* routines provide tools and utilities to process and load data into the Spatial Data Warehouse. With the still increasing use of ArcGIS Server (AGS) applications and replication, the demands on the SDW are ever growing. *PostRep* is in need of several enhancements to ensure the integrity of the spatial data warehouse (SDW) under the stress of these changes.
	The following enhancements are planned:
	- Allow posting from other source databases - Report cumulative posting histories - Report histories and frequency information for a Web page - Maintain a database of all data sets in AGS applications

Interdependencies	StewardTool, ArcGIS Server, SQL Server, Web
Status	In progress.
Target	December 2016.
Activity	▪ Create Sprint Backlog – details how the team will implement requirements for the next iteration. ▪ Sprint – backlog is frozen, application implementation and testing. ▪ Deployment of working iteration of software. ▪ Return to backlog and start over.

Name	***Parcel Viewer 2***
Description	*Parcel Viewer 2.0* replaces the original *Parcel Viewer* application with current ArcGIS Server technology. The goal of this project is to preserve all existing *Parcel Viewer* functionality while adding several useful features including: aerial photography, URL linking, more parcel based information, drawing and markup tools, selection of multiple non-contiguous parcels, PDF export options, search by condo name, and better looking and faster performing cartography.
Interdependencies	ArcGIS Server, Web server (gismaps.kingcounty.gov), ArcSDE/SQL Server (GISSQLPUB), KC WAN, KC Assessments Web services. ArcGIS Server 10.1 is required for map output feature.
Status	In production.
Target	Mid 2015.

Activity	▪ Features to be added as time allows:
	
	    ○ Add last sale and sales price to data output.
	
	    ○ Add additional map layers such as recent sales, King County owned property, illegal drug labs, and planning layers.
	
	    ○ Modified layout to work better on small screens (laptop, netbook, and tablet).
	
	    ○ Mobile version with reduced functionality if there is user demand.

Name	***StewardTool* Enhancements**
Description	Two enhancements to *StewardTool* are needed in the near term. Adding support for managing Coded Value Domains in the Enterprise database. Adding support for posting data from departmental maintenance SDE databases outside the KCGIS Center's development and staging database.
Interdependencies	Must be synchronized with corresponding functionality in *PostRep* updates for the same purpose. Support for posting from databases outside of KCGIS Center's

	development and staging database requires granting access privileges to those data sources to a KCGIS Center administrative user and nighttime access.
Status	Design phase.
Target	Q2 2015.
Activity	▪ Update stored procedures to handle new database update procedures. ▪ Re-build front end with current platform and development environment.

Name	**ArcGIS Online for Organizations Implementation**
Description	In September 2012 the Enterprise License Agreement (ELA) with Esri was amended to add the ArcGIS Online for Organizations service. This service features easy to use tools for creating and publishing maps, data, and applications to the Web. It will enable the county to provide our authoritative maps and data to virtually anyone, anywhere. It will also enable non-GIS users to create their own maps and share them, including through social media channels. ArcGIS Online is an unprecedented opportunity to provide GIS functionality to a wide number of county staff. For an organization to effectively manage ArcGIS Online it is necessary to develop standards and best practices for content, look and feel, symbology, publishing, access, permissions, groups, training, metadata, and other factors that influence implementation. This project will focus of developing those standards and best practices, and on administration and management of King County's implementation of ArcGIS Online.
Interdependencies	None.
Status	In progress.
Target	2015
Activity	▪ Continue to host regular forum for knowledge sharing. ▪ Provide quarterly half-day training sessions. One for ArcGIS Online users only, one for users with access to ArcGIS desktop software. ▪ Continue to develop standards and best practices as required for effective organization and management.

Name	**Shapefile Usage and Evaluation**
Description	Shapefiles are a major component of the Spatial Data Warehouse (SDW). During the Software Migration effort in 2002, maintaining enterprise shapefiles was deemed critical to business operations. Since that time shapefiles have been maintained as the file-system equivalent of the enterprise GDB SDW. Software dependencies originally demanding shapefile availability and currency, specifically ArcView 3.x, have been largely mitigated, but not fully quantified. ArcGIS Desktop and web applications have become the primary access points for internal users accessing GIS data.

	Nightly production of shapefiles and synchronization across the enterprise GDB represents a significant workload. Though highly automated, this workflow requires daily monitoring and follow-up. In addition, issues with the older data model for shapefiles provide challenges in maintaining a full mirror of the GDB warehouse.
	Shapefiles, outside of core SDW access, remain heavily depended upon for their open standard, easy portability, and universal format across all Esri product lines.
	This effort would determine outstanding dependencies on enterprise shapefiles, and whether that dependency is software-driven, performance-related, or is solely for familiarity or convenience. A detailed, targeted survey would be developed to quantify the magnitude and types of dependencies. Results of the survey would be evaluated to document these dependencies, possible alternatives, and finally, any truly critical software-shapefile dependencies. Depending on the results of the analysis a proposal would be made to the Technical Committee for a short-term and long-term disposition plan for enterprise shapefiles. If the plan proposes removal of enterprise SDW shapefiles for desktop display and analysis, it would need to accommodate those remaining enterprise business needs with shapefile dependencies, such as the GIS Data Portal.
Interdependencies	Full participation in survey and discussion by all KCGIS agencies.
Status	In progress.
Target	Q2 2015.
Activity	▪ Distribute questionnaire. ▪ Evaluate results of questionnaire. ▪ Determine if moving from status-quo is viable option, specifically removing shapefiles from enterprise production. ▪ Develop plan and timetable for this end-goal, and proposals for handling remaining enterprise needs for shapefiles.

Name	**Spatial Data Warehouse Validation Tools**
Description	The Spatial Data Warehouse (SDC) has multiple representations across data and metadata objects, as well as data access objects (i.e., layer files), and other related objects. *PostRep* performs nightly validation on the primary data objects as GDB layers and shapefiles. Additional tools are required to accomplish three main database-wide review objectives: (1) search for commission errors (objects within network not supported by control tables), (2) search for omission errors (data or related objects required by control tables but not found within the network), and (3) identify validation errors (checks on specific properties for selected objects).
	These tools are required across all three branches of the enterprise SDW: enterprise vector and tabular data, raster datasets, and non-KCGIS vector data.
	Some enterprise workflows, such as the GIS Data Portal, are supported by independent validation routines executed during each Portal build cycle. This additional layer of validation tools would not replicate these. Rather its focus would be a weekly evaluation of the enterprise to maintain a high level of synchronization between related objects, identify corrupted or out-of-date objects, and reduce the need for manual cleanup.

Interdependencies	Logical build-out of modules. Logical and efficient reporting for follow-up actions.
Status	Started. Some pilot modules have created and tested.
Target	Q3 2015 for all component deployment, but early phases will be rolled out as completed.
Activity	▪ Complete requirements analysis.
	▪ Document existing validation routines to avoid redundancy.
	▪ Determine best way to modularize functionality, and frequency requirements for certain tests.
	▪ Create scripts to execute functionality.
	▪ Perform weekly maintenance of enterprise by executing specified workflows.
	▪ Review reporting results, with manual follow-up of certain tasks.

Name	**Focused Data Enhancements**
Description	Between new data development and regular data maintenance lays a zone of focused data enhancements. These projects require sufficient data modeling and/or workflow development to elevate their time and effort commitments.
	ZIPCODE_PO_POINT and CARRIER_ROUTES_AREA – Develop Post Office Box (point) version of zip codes to complement polygon data. Evaluate options for related automatic, attribute-driven derivation of carrier route information to create a layer with minimal to no manual editing.
	REALPROP_AREA – Move data table component of this existing dataset from quarterly-based spreadsheet updates to planned replacement of REPMS.
	KCADDRGRID_LINE – General enhancements and updates, but specific work to include city-specific addressing grid logic into master layer.
	CITY_ANNEX_HISTORY_AREA – Create and maintain a new layer representing the history of city annexations. Layer would be auxiliary to the authoritative city annexation layer. Requires modeling to handle complex spatial and temporal aspects.
	URBAN_GROWTH_AREA – Reconciling UGA boundary with known and discovered annexation 'gaps' where small areas have not been correctly annexed and recorded. This will include review and description of all urban unincorporated areas.
	The composition of this list and prioritizations may be adjusted as necessary by the Data Handling Team.
Interdependencies	Coordination with various King County agencies who are the ultimate data stewards for data content, and who provide the required business drivers. Additional coordination with jurisdictional stakeholders for the URBAN GROWTH and CITY ANNEX projects.

Status	All projects have existing components, but some only with preliminary scoping.
Target	Varies, but completed or tabled (with justification) by 2016
Activity	▪ Develop work plan for each focused enhancement effort. ▪ Review and acquire required data sources. ▪ Design data models and workflow, including necessary scripting applications. ▪ Pilot designs and evaluate. ▪ Revise and scale workflow up to production. ▪ Create metadata and publish to SDW. ▪ Put layer into maintenance.

Name	*LibTool* **Conversion to Add-Ins**
Description	The in-house developed *LibTool* application is currently implemented as a custom toolbar extension for ArcGIS Desktop. To deploy new versions of the tool requires uninstall and install steps at each PC. This is time consuming for GIS staff and system administrators and it is cumbersome to keep all PCs synchronized to the same version of *LibTool*. At ArcGIS 10 Esri introduced the add-in model that makes it easier to customize and extend ArcGIS Desktop applications. The new add-in model provides a declaratively-based framework for creating a collection of customizations conveniently packaged within a single compressed file. Add-ins are easily shared between users as they do not require installation programs or Component Object Model (COM) registration. Add-ins are added to a system by simply copying them to a common folder. Add-ins can also be shared between users within an organization using a centralized network share. It is believed all the functionality of *LibTool* can be captured using the add-in model, and that this can be accomplished in a stepwise fashion by converting a single function or groups of functions as staffing resources permit. The converted functions could be implemented as add-ins operating in parallel with *LibTool*. Once all the functionality is converted to add-ins, *LibTool* will be retired.
Interdependencies	Availability of programming resources within the KCGIS Center to complete development work.
Status	In progress
Target	Q2 2015.
Activity	▪ Image Chooser – Q1 2015. ▪ Parcel tools – Q4 2014 – Q2 2015. ▪ Make a Map – Q1 2015. ▪ Final October – Q2 2015.

Name	**Application Development Standards**
Description	Standards for the developing applications and systems in the GIS center
Interdependencies	ArcGIS, KCIT SDLC standards and TFS standards
Status	In Progress
Target	Q1 – Q2 2016
Activity	▪ Generate KCGIS specific steps in application development with respect to the multiple programming languages, 3rd party software dependencies, and types of projects (Enterprise, Client Services, Web, etc). ▪ Link steps to KCIT's plan for TFS and Project Management.

Name	**Data Maintenance Plan Assessment and Development**
Description	Detailed assessment of individual data production and maintenance plans for KCGIS Center maintained layers
Interdependencies	Coordination with data stewards responsible for specific data sets. KCGIS Center Data Handling Team will also be involved in preliminary evaluation of data plans during data set review. Details derived from developed plans regarding applications and workflow scripts will need to synchronize with Application Digest.
Status	Not started
Target	On-going
Activity	▪ Inventory current state of KCGIS Center maintained data sets with focus on status of a production and maintenance plan. ▪ Develop template for plans in order to ease creation and to standardize input. ▪ Move existing plans into template. ▪ Data Handling Team reviews samples for acceptance. ▪ Coordinate with appropriate steward to develop additional plans; prioritization to be determined by Data Handling Team.

4.1.3   Hardware, Software, and Database Systems Changes

▪ The KCGIS Center has tested ArcGIS version 10.2 for desktops and GIS desktop users may migrate to this version. Version 10.2 will be considered the standard desktop install for 2015. Version 10.3 will be released in December 2014, but will not be adopted or recommended until tested. Standard KCGIS Center enterprise servers are at ArcGIS Server version 10.1 and will remain so until at least July 2015. Server version 10.2 may be skipped in favor of 10.3 when the upgrade occurs.

▪ Esri no longer supports ArcIMS at version 10.1. The KCGIS Center will retire all ArcIMS based servers and applications by March 31, 2015.

- The Enterprise License Agreement (ELA) with Esri was renewed on August 16, 2014 and will run for a four year term until 2018. The annual cost increased from $250,000 to $315,000.

4.1.4   Staffing Changes

- The KCGIS Center staffing model is adjusted based on demand for enterprise, matrix, and client services. Staffing levels to these three lines of business are balanced to need and available budget. The KCGIS Center budgeted staff level is 28.00 FTE for the 2015-2016 biennium. This is the same as the previous biennium.

- **Matrix Staffing Services** – The FTE staffing allocation increases from 10.50 in 2014 to 11.00 for the 2015-2016 biennium for a net change of plus 0.50. This change is based on a reduction of matrix staffing for Road Services from 1.00 to 0.50, a reduction for Permitting and Environmental Review from 1.00 to 0.50, an increase for Wastewater Treatment from 3.00 to 4.00, and an addition of 0.50 for Performance, Strategy and Budget. Parks and Recreation (1.00), Wastewater Treatment (3.00), Water and Land Resources (3.00), Solid Waste (1.00), and King County Airport (0.50) all remain at their 2014 levels of FTE staffing for matrix services.

- **Client Services** – The FTE staffing allocation decreases by 0.50 to 5.85 for 2015-2016. This change results from allocating an additional 0.50 FTE to Matrix Staffing Services.

- **Enterprise Services** – The FTE staffing allocation remains at 11.15 for 2015-2016.

4.1.5   Other Changes

- The KCGIS Center, working in coordination with PSB and KCIT put in place a new O&M funding model for the 2015-2016 biennial budget. The new model furthers the goal of having a fair and equitable funding methodology for GIS enterprise services.

4.2 Department of Assessments

4.2.1 Agency GIS Overview, Priorities, and Goals

- The mission of the Department of Assessments is to be the nation's best county department of assessments. We will accomplish this by being people-focused and striving to be efficient and innovative in setting fair and equitable property values to fund vital community services. GIS is integral in supporting the above stated mission.

- GIS within the Department of Assessments is used in valuing property, defending valuation methods and estimates, maintaining public records including maps, legal descriptions and taxing district boundaries, administering exemptions and calculating levy rates. GIS provides easy access to data that is valuable for performing Assessments business functions. GIS is used in many aspects of the Department's business functions including but not limited to:

  - *Property Appraisal* – Appraisers use GIS enabled applications, maps and data when valuing property. GIS is used for data collection, retrieval and analysis. In addition, GIS is used to update property characteristics.

  - *Map/Property Boundary Maintenance* – GIS is used for discovering and listing taxable real property within the County. Assessments is responsible, under RCW 84.40.160, for maintenance of property configurations within King County. GIS is being used to fill this responsibility. Over time, the old quarter section Mylar maps are being retired and being replaced by maps generated from GIS data. Numerous agencies and individuals both within and outside the County access GIS property boundaries maintained by Assessments. Digital versions of the quarter-section maps are available on the Web as PDF files.

  - *Exemptions* – Assessments administers a portion of The Open Space Act (Chapter 84.34 RCW), which provides for current use assessment of farm and agricultural land, timber land and other open space land. Once land is classified, taxes are based on the current use value of the land rather than its highest and best use. Assessments must maintain both current use value and market value on these properties. GIS provides analysis and mapping of characteristics unique to Current Use Exemption monitoring.

  - *Annexations/Levy* – GIS is used to produce maps and data for internal use specific to the Assessment calendar year. GIS is used to generate the taxing boundaries as well as lists of parcels to be changed. GIS data are generated for Washington State Department of Revenue for apportionment of utility valuations and the state levy.

  - *Appeals* – GIS data, analysis and maps are used as evidence and support for defense of valuation decisions.

  - *Miscellaneous Property Related Analysis/Public Information* – GIS is used for validation of proposed annexations, property search and information requests, Assessor maps, public notification of neighboring properties and other public agency requests.

  - *Customer Service* – GIS is used as a tool to respond to various types of public information requests. Assessment staff members receive both walk-in clients and telephone clients who require GIS based information.

  - *Administration* – Assessment management and administrative staff often request data and information for analysis that contains a GIS component.

- We anticipate continued representation on the Oversight Committee by the newly appointed Chief Deputy Assessor. In 2012 Oversight Committee representation in Assessments was transferred to the Chief Deputy Assessor. This transfer aligns representation with the membership requirements for the committee and provides greater continuity for implementing department strategic initiatives. The activity of the Assessor's office spans the gamut of operations both

internal and external to King County. Both big picture planning and attention to details regarding data that is the foundation for much of King County is critical to successful operations.

- The iRealProperty iPad application has been successfully deployed and is used by the residential appraisers for data collection during the revalue process. Integrating Pictometry imagery and/or the latest ortho imagery is a priority. Clipping the imagery is time consuming and needs to be coordinated with KCGIS for processing time/system access. Clipping of the 2013 images began in 2014 and will continue into 2015. KCGIS may be called upon to support this effort.

- The residential condo appraisers will be supported by the iPad application next year. Clipping imagery for this group requires a different set of parameters as the condominium complexes are spread out. The imagery required for this group is more site(s) specific and requires an overview of the county with more detailed imagery around the various complexes. KCGIS may be called upon to support this imagery clipping process.

- Anticipating the release of ArcGIS 10.2 and ArcGIS Pro, DOA will need to test and plan for implementation of any ArcGIS changes. DOA's extensive network of users present issues when upgrading any software. Internal to DOA the ArcGIS deployment impacts all staff because of the integration of GIS in our RealProperty application. Additionally, external users of RealProperty will be impacted because of the ArcEngine component that accesses ArcGIS 10.x components.

- Work continues at DOA to improve the positional accuracy of the cadastral data. Each person in mapping is assigned one or more areas per year to update. Lacking good quality digital survey data, the effort is very labor intensive. In 2014 DOA mapping with support from KCGIS improved over 10,000 parcels. DOA will continue the efforts into the foreseeable future and will use Client Services funds to replace data where jurisdictions have already made enhancements to their data.

- DOA will continue to pursue collaboration and partnership efforts with jurisdictions to share survey and other information that may be useful to positional upgrades. While our needs are different, the goal is to develop cadastral data that will be a resource for other jurisdictions. As the King County data becomes more accurate opportunities for collaboration with cities for data maintenance emerge.

- In 2022 there will be new geometric and geopotential datums. This will impact both DOA and other agencies that maintain GIS data. While the shift is still years away, understanding and planning for the shift will take place well in advance of any changes in an effort to secure funding as necessary and ensure a smooth transition of the data.

- An aging population both within and external to the work force provide opportunities and challenges for DOA operations. Numerous DOA staff are eligible to retire during the next two years. Planning for staffing needs and rethinking current procedures is underway. Many employees have been with the department for many years. Much of the work at DOA is specific to the appraisal, survey and real estate fields with nuances in all lines of business. A significant amount of institutional knowledge will be lost with each retiring staff member. The department is making an effort to document procedures and resources available for business transactions.

- Both the plotter and scanner used in mapping are over seven years old. Research is being done to determine the most appropriate replacements given our current and future needs. One or both of these will be replaced within the next two years.

- Thousands of old map documents have been scanned to PDF and/or TIFF files. The maps are stored in folders on DOA servers however there is no easy way to locate the images. DOA will develop a database for easy retrieval of the imagery for both internal and external users. There is still much work to be done to scan the remaining documents, QA and cross-check against the original source documents to ensure a complete set of imagery will be available.

- King County has invested heavily in Pictometry. Access has been primarily through ArcGIS or more recently ArcGIS Online. DOA's RealProp application now includes a link to POL however access requires a login. We have already seen the benefit of this simple addition. Phase two of

the integration will be to use some of the newer APIs developed by Pictometry to enhance the user experience and encourage use of the product.

- We continue to rely on the expertise of KCGIS Center staff and on a stable server environment for data maintenance and access to PLIBRARY and map services. Access limitations due to server access issues or database issues create cascading problems for DOA because of the tight integration between our business with access to data in Plibrary.

- DOA will continue to evaluate the Esri parcel model/fabric as it matures. We will maintain an open mind towards the migration to a different data model for cadastral data maintenance and look to improve our editing work flow.

- The Government is the largest collector and holder of public data. Over the last few years, the number of Government Agency data portals has increased substantially. While this has made it easier for public access to open data, there remains a challenge for users to visualize and analyze multiple data points for their neighborhood or street. Many of the open data portals provide mapping visualization, but rarely integrate multiple sources of data, such as property value, education, law enforcement, and census data. This disconnection of data results in missed correlations between related data points. The King County Department of Assessments is developing a new area report format pilot project that will plug into the data portals of multiple Government agencies to produce a mapping visualization platform that allows the user to search property and other data and analyze trends from the county level, to their city or neighborhood, all the way to individual property parcels. This effort will require coordination and collaboration with KCGIS to remove any confusion regarding data currency issues and to reduce any duplication of effort regarding access to King County data.

- The KCAM Edit tools are used by the DOA mapping group to make editing more efficient and perform quality assurance checks to preserve the integrity of the data. Few updates have been made to the tools since their original development. DOA needs a more robust set of QA tools so the mapping staff can easily identify some of the more commonly made mistakes. Since the tools were written in ArcObjects it might be more relevant to rewrite the entire suite than to update the existing tools. KCGIS will be called upon for this effort.

4.2.2   Ongoing and New Projects

Name	**Positional Accuracy Improvements**
Description	Redraw areas of the County where the positional accuracy is unacceptable. Users of the parcel and related cadastral layers will see an increased level of accuracy and stability of the data once an area has been redrawn. All users of the parcel data will benefit from an accurate cadastral data.
Interdependencies	Staff availability and appraisal physical inspection schedule.
Status	In progress.
Target	2014 and beyond.
Activity	- Research problem areas. - Coordinate redraw priorities with appraisal team leaders. - Assign redraws to mapping staff with scope and work plan expectations. - Work with Jurisdictions as appropriate to obtain data. - Determine correct data to be used for redraw.

	▪ Build exterior plat and quad boundaries as necessary.
	▪ Build and code interior data.
	▪ Move annotation to correspond to new line work.
	▪ Integrate into KCAM database.

Name	**Taxing District Boundary Development and Review Process Update**
Description	Maintenance and development of the Taxing District boundary layers has become complex and cumbersome. DOA will endeavor to streamline the maintenance of the district data layers in conjunction with QA efforts to ensure the accuracy of the layers. Taxpayers, voters and districts will benefit with accuracy in tax distribution.
Interdependencies	DOA Staff availability and coordination with Elections GIS.
Status	In progress.
Target	Ongoing
Activity	▪ Data model redesign to incorporate additional editors. ▪ Initial district boundaries have been developed from dissolved levy code polygons. ▪ Compare results to district Mylars. ▪ Review each district boundary discrepancy for compliance with district legal description. ▪ Add historic boundaries as time and business needs allows. ▪ Coordinate efforts with Elections GIS to reduce duplication of effort. ▪ If there are discrepancies between DOA and Elections data requiring immediate attention these will be reviewed regardless of the project status or timeline.

Name	**Enhanced Area Reports**
Description	Each year DOA appraisers generate Area Reports at the time new values are posted. The report describes the appraisal methodology and the factors that went into valuing a given area. The DOA is developing a tool to enhance the information available to the public and local government regarding each if the residential areas in King County. It will provide better visualization of the makeup of a given area. Taxpayers and other government agencies will benefit from improved access to data.
Interdependencies	Staff time, data availability and vendor.
Status	Under development
Target	2014, 2015
Activity	▪ Vendor selection via RFP 2014.

	• Work with vendor to define and obtain data layers, fields, layout and web application. • 2014 Internal Deployment. • 2015 Enhancements. • Soft launch for beta tester feedback.

Name	**iRealProperty Data Collection Application**
Description	Continue updates to iRealProperty to refine application based on appraisal input. Develop as necessary to support commercial appraisal operations. Imagery available in iRP is from 2009. New imagery clipping tools will be developed that can generate a format consumable by iRP independent of the format that data is stored in the KCGIS Image Library. Tools need to clip based on larger geographic areas as well as pocket areas as defined by clusters of parcels with similar characteristics.
Interdependencies	Staff. KCGIS imagery expertise.
Status	In progress.
Target	2014+
Activity	• Define needs • Build clipping tools

Name	**KCAM Edit Tools 2**
Description	The KCAM edit tools were developed in 2006 when the cadastral data was converted from coverage format to the geodatabase. While the tools work well there are enhancements that can be made to improve the user experience and ensure the integrity of the cadastral data. New programing methods are available that may prove useful for the developer.
Interdependencies	KCGIS staff time.
Status	Not started
Target	2015
Activity	• Define user needs • Program and test new tools.

Name	**General GIS Strategic Plan**
Description	Develop a strategic plan to help utilize and market GIS services internal and external.

Interdependencies	Coordination across various KC agencies with GIS layers.
Status	Not started
Target	2016
Activity	▪ Strategic plan development.

Name	**Pictometry Integration**
Description	Integrate Pictometry IPA into RealProp application. All users of the RealProp application will benefit from access to Pictometry imagery.
Interdependencies	DOA staff time and Pictometry documentation.
Status	Not started
Target	2014, 2015
Activity	▪ Obtain documentation from Pictometry regarding IPA. ▪ Program and test new tools.

Name	**Scanned Map Imagery Database**
Description	Build a database for easy retrieval of scanned maps. DOA has thousands of pages of vintage maps. Many are scanned however accessing imagery is nearly impossible without knowledge of the map sets. Anyone needing access to the imagery will be served by development of the database.
Interdependencies	DOA staff time.
Status	Not started
Target	Start 2016
Activity	▪ Complete inventory of scanned map images. ▪ Cross check imagery against source materials. ▪ Develop data model. ▪ Geo locate imagery.

4.2.3   Hardware, Software, and Database Systems Changes

- ▪ New plotter/scanner
- ▪ Esri software updates beyond 10.1
- ▪ SQL Server updates.

4.2.4   Staffing Changes

- Staff eligible to retire may leave.

4.2.5   Other Changes

- None anticipated.

4.3   Department of Permitting and Environmental Review

4.3.1   Agency GIS Overview, Priorities, and Goals

- The mission of the Department of Permitting and Environmental Review (DPER) is "to serve, educate and protect our community by shaping and implementing King County's development and environmental regulations." To carry out this mission the department is responsible for receipt and review of building and land use permits, inspection of building construction and land development, and for administration and enforcement of building, land use, fire, and environmental codes. DPER has jurisdiction in unincorporated King County and has approximately 92 employees.

- DPER is continually working to streamline the permitting process to minimize expense for small permits; increasing the number of over the counter permits issued; and simplifying the organizational structure of the department. DPER is currently working to offer simple permits on-line. There are several King County policies and ordinances that complicate the realization of on-line permitting that will carry this process into the 2015-2016 biennium. DPER continues to plan for a future when their service area is entirely rural, but all of the remaining urban unincorporated areas are likely to be annexed before the end of 2016.

- DPER is supported by three KCIT managed positions including GIS support which is managed through the KCGIS Center. The ITSDM position became vacant in 2013, and remains vacant. The DPER GIS program manager coordinates primarily with the chief financial officer and the assistant director for permitting to determine what GIS projects are undertaken, and how resources are allocated among the projects.

- The DPER GIS program manager also participates as a member of the permit integration team, which administers and supports the King County permitting system Accela Automation. There are several outstanding functionality and performance issues with Accela GIS module and its integration with the KCGIS. The resolution of those issues is the highest priority of the DPER GIS program.

- Other high priorities for the DPER GIS program are: ongoing support of GIS integration with Accela, maintenance of the enterprise GIS layers owned by DPER, maintenance and support of the GISMO report modules, and training and support of DPER users of GIS tools. The GIS Tools in use currently include Accela GIS, Desktop ArcGIS, iMap, Parcel Viewer 2, and Pictometry Online.

- Core business functions of DPER supported by GIS include the following:

  - Permit Receipt (Intake) – GIS tools and data sets are essential to successfully conduct intake review and complete the permit application process. Site location, zoning, development conditions, critical areas and other land related factors are identified and confirmed. Permit viability is assessed, permit requirements determined, and permit routing initiated.

  - Permit Review – Site engineering and planning requires GIS tools to map a series of attributes for each project under review. Building plan review requires GIS tools to guide decisions on building requirements. Current planning requires GIS tools to determine development conditions, historic zoning, and planning requirements.

  - Inspection and Enforcement – GIS tools are used to determine inspection areas, project assignments and to balance inspection and case workloads.

  - Regulatory Review – GIS tools are used to develop planning proposals for regulatory control. GIS techniques are also used in regulatory programs including the Critical Areas Ordinance, the Endangered Species Act, and the Growth Management Act.

- o Public Information – GIS maps, data, and applications are used extensively in the department for public information and education. Environmental, regulatory, and property-based data are disseminated using GIS web applications, display materials for public meetings, and various publications.

- The King County GIS Center is responsible for carrying out the GIS program plan for DPER using the matrixed services model. The DPER GIS program manager works with the DPER management team to set goals and priorities for the provision of the following GIS services to the staff, customers and stakeholders of DPER:

  - o Geographic analysis presented in the form of maps, graphics, data files, and reports.

  - o Development, integration, and maintenance of enterprise and agency geographic data sets.

  - o Development and maintenance of customized end user applications.

  - o Custom map production services.

  - o Support of map data web services, and other data sharing processes to provide direct access to geographic data from the permit system.

- Requests for assistance from DPER staff come through the King County IT Service Center, or directly to the DPER GIS program manager. Requests for new system features, or new data products require a formal request process that is routed through a change management process to coordinate feature requests with the Permit Integration project. The process allows the business units to direct the limited available matrixed service time towards the most needed features.

- DPER participates in the successful exchange of geographic data among many King County agencies. Planning and permitting data are provided to other agencies through participation in the KCGIS Spatial Data Warehouse (SDW). Property data from the Department of Assessments and environmental data from the Department of Natural Resources and Parks are acquired through the KCGIS SDW and direct data exchanges. DPER takes an active role in facilitating GIS data sharing with other King County agencies.

- DPER actively participates in the county-wide GIS program. The DPER GIS program manager has vice-chaired and chaired the KCGIS Technical Committee in previous years, and participates on sub-groups of the KCGIS Technical Committee. The matrixed service model facilitates the coordination of GIS data, procedures, and practices between DPER and the other agencies of King County.

- Challenges for DPER GIS in 2015-2016:

  - o For many years DPER (previously DDES) has supported regional planning with senior planners and municipal code development experts. Retirement and staff reduction has seen a complete turn-over in regional planning staff in the past 2 years. DPER staff takes direction on this subject the King County executive's office. DPER has attempted to move the function entirely to the executive's office to better focus on the cost recovered services at the core of DPER's mission. The King County council has declined to approve that move, but efforts continue on the part of both DPER and the executive's office. It is likely, subject to KC Council approval, that the budget process for 2015-2016 will reflect the change. This will have a large impact on the amount of GIS support that DPER requires. DPER is advocating for 0.5 FTE of GIS matrix support to be moved from DPER to the executive's office along with DPER's remaining regional planning staff. The regional planning staff turn-over represents a challenge to maintain continuity in the GIS support of regional planning that would be exacerbated by the movement between departments. This document was written as if the regional planning functions will remain at DPER.

- o With GIS staff physically located remotely from DPER, care must be taken to remain accessible and responsive to staff requests and needs.
        - o DPER staff currently relies heavily on the iMap web application provided by the KCGIS Center. This application is slated for replacement the second half of 2014. It will be replaced by a collection of many smaller more focused tools. Supporting the DPER staff through this transition will require lots of communication to the staff on what they should expect, and careful listening to the staff about any specific needs that are not being met by the replacement applications.
        - o The amount of GIS support required by DPER exceeds the amount of GIS staff time available. Careful assessment of the various projects and maintenance will be required to keep systems up and staff needs satisfied
    - ▪ Opportunities for DPER GIS in 2015-2016:
        - o ArcGIS Online offers a web based mapping platform that can be used to fill any gaps left after the iMap retirement. The ArcGIS Online tools promise a quick development time-frame and a low amount of administration to keep them running.

4.3.2   Ongoing and New Projects

Name	**Land Slide Hazard Mapping**
Description	Following the tragic landslide event in Oso Washington in 2014, King County has identified a need to refresh the landslide hazard data currently available in the KC Spatial data warehouse that dates to the 1990 Sensitive Area Ordinance map folio. DNRP and DPER are currently working on a plan to create a new layer based on LIDAR remote sensing technology, recent Washington State Geologic mapping data, and non-digital data from other agencies. The layer would classify and rank the hazard areas.
Interdependencies	A budget for this project is still being formulated. King County may require grants to complete this project. If so grants may impose external requirements. DNRP WLR Rivers group is involved in the planning now, and other DNRP groups may be involved in specific project tasks.
Status	Currently under consideration
Target	2015 for full classification and ranking
Activity	▪ Determine exact methodology for project. ▪ Produce working and check plot maps at 1:12,000 scale, extents equivalent to USGS 7.5' Quad maps. ▪ Review impact of updated hazards on water disposal and forest cover regulations.

Name	**Legacy Parcel Clean-up**
Description	Due to various historic and ongoing problems with the link between Accela Automation and the GIS layer, approximately 2,000 permit records that should be linked to a GIS parcel are not. A procedure needs to be developed to identify and correct these instances. Additionally efforts will be taken to reduce or eliminate this from happening in the future. Currently estimates are that is continues at a rate of several permit records per month.
Interdependencies	Depends on support from the Permit Integration team, and possibly KCIT networking experts to troubleshoot the slow response between Accela servers and the DPER firewall server.
Status	Planned
Target	2015
Activity	▪ Conclusively identify problematic permit records ▪ Establish a procedure to identify newly created problematic records ▪ Establish a procedure to correct problematic records ▪ Eliminate ongoing slowness of response that accounts for most new problematic records.

Name	**Comprehensive Permitting Agency Finder Web Application**
Description	King County customers will be able to determine from a central location where their various permitting needs can be met based on the location of their property and the various permitting agency jurisdictions that apply. A table will be added to the KCGIS data warehouse to support the necessary contact information. Some new feature classes may be generated.
Interdependencies	KCGIS staff will participate in developing the web application
Status	In progress
Target	2014
Activity	▪ Expected to be complete in 2014, if any activity in 2015 it would be user testing and refinement.

Name	**Provide a GIS Layer of Automation Permits and Associated Parcel Geometry**
Description	DPER and other county agencies participating in the Accela Automation permitting system will be able to show mapping of active/historic permits outside of Accela environment. This will allow more flexible and complex mapping and analysis than is supported in the Accela GIS Module.

Interdependencies	KCGIS Center staff working with KCDOT hosted database to up create an updated layer on a weekly basis
Status	In progress
Target	2015
Activity	▪ Expected to have a working process in 2014 and refine outputs to support DPER business needs in 2015

Name	**Pre-Production Parcel Database**
Description	Currently the DPER permitting system (Accela Automation) is unable to link permits to newly platted parcels during the lag time between when a plat is recorded and when the resulting child parcels become available in the Parcel layer available from the GIS Center's spatial data warehouse. Contributing to this delay is a dependency of the GIS parcel layer on the Assessor's mainframe database which can only hold data for one tax year at a time, which results in an annual freeze on parcel edits. DPER will address this issue with a database that can host provisional parcel data in a pre-production state. This pre-production database (PPDB) would contain at a minimum parcel number, assigned address, and geographic extent. The abstracts techs at the Assessor's Office currently provides major numbers to DPER staff, which is added to lot numbers from the plat maps to determine likely provisional parcel numbers. DPER provides new addresses when they are designated. The geographic extents will be added using the plat map data. This geographic extent in the database would be provisional and temporary until the parcels are official and present in the parcel layer. Plats submitted for review as CAD data would be used when available. The PPDB would be used as an additional data source to produce the GIS layers that are currently generated on a weekly basis for the specific purpose of providing external tables of parcels and addresses for use with the Accela Automation online permitting system. The PPDB would be drawn in the Accela GIS module with a unique symbology that highlights the provisional nature of the pre-parcel data. Security controlled access to the PPDB for other appropriate county staff could be provided through a web application. The web interface would allow browsing of the available data and search capabilities. It would provide agency authentication to allow data to be added or updated through the web interface.
Interdependencies	Assessor's Office abstract techs, to provide major numbers. KCGIS Center staff (or other KCIT staff) to develop web application. KCGIS staff time will be needed to enhance the processes used to create PARCEL_ADDRESS_AREA layer used as external parcel control file by Automation.
Status	Proposal, Not Started
Target	2015

Activity	- Establish procedure to create a preproduction database that can store parcel numbers, addresses, and geometry in advance of the official parcel layer being updated. - Update PARCEL_ADDRESS_AREA creation process to accommodate new data and remove resulting temporary data when it is no longer needed. - Develop report of Addresses attached to permits that are not linked to ADDRESS_POINT enterprise data layer. - Develop a process to monitor items on the report of unlinked permits as the entries appear, age, and drop off.

Name	**Enhance CAD GIS Layer with Links to Map Scans**
Description	DPER staff currently cannot access the Critical Area Designation (CAD) scans unless they have ArcMap installed on their desktop. Providing licensing and training for ArcMap is prohibitively expensive. The CAD GIS layer will be enhanced to provide a link to the same CAD map scans that are now available in the LibTool extension provided by the KCGIS Center. This will allow DPER staff to obtain critical area information in the vicinity of permits they are processing more efficiently than is currently possible.
Interdependencies	None.
Status	Not started.
Target	2015
Activity	- Change the schema of CAD layer - Add map scan paths to the CAD layer. - Add the most recent CAD scans to the LibTool system.

Name	**City Annexation History**
Description	Continue to populate the city annexation history layer. Leverage the most recent annexation detail provided from CITY_ANNEX_AREA to update the layer on an ongoing basis. This relieves the Department of Assessments from the need to keep historic annexation features conflated with parcels as they are redrawn and maintained.
Interdependencies	KCGIS Center participation.
Status	Ongoing
Target	2016
Activity	- Research historic annexations. - Develop automated procedure to update layer with new annexation data on a

periodic basis.

4.3.3   Hardware, Software, and Database Systems Changes

- Two DPER GIS servers were retired in 2013, and the remaining two will be retired by the end of 2014. The DPER SDE database and the DPER specific GISMO applications will be moved to KCGIS enterprise servers.

- The ArcGIS Server map services that support the GISMO reports and Accela GIS are expected to be at version 10.1 at the start of 2015 and will be upgraded along with the enterprise upgrade schedule. One or two upgrades beyond 10.1 are expected by the end of 2016.

4.3.4   Staffing Changes

- Subject to council approval, 0.5 of the 1.0 FTE KCGIS Center matrix support will be moved from DPER to the King County executive's office. Refer to the Challenges for DPER GIS in 2015-2016 discussion in the first section of this chapter for a detailed explanation.

4.3.5   Other Changes

- No other changes are expected.

4.4   DES – Emergency Management Division, E-911 Program Office

4.4.1   Agency GIS Overview, Priorities, and Goals

- The mission of the Emergency Management Division, E-911 Program Office (E-911) is to provide leadership and high quality service to improve the safety of the public in King County. The E-911 Program Office is committed to providing public safety solutions and support to 12 Public Safety Answering Points (PSAPs) in King County. PSAP support includes technical, GIS, administrative, and financial funding from the 911 tax. The E-911 Program Office ensures continued effective operation of the E-911 System so that high quality 911 service is provided to the public, regardless of the technology used to call for help.

- The core E-911 GIS activities are to ensure that the GIS based XTrakker maps are working to display each and every 911 call that comes into the PSAP. That cell tower information coming in from seven different wireless carriers is kept up to date and integrated onto the mapping for display at the PSAPs. That Voice over Internet Protocol (VoIP) calls are visible on the map when a caller makes a 911 call. That address and street information are verified from all 39 city addressing authorities when changes, updates, additions and/or deletions are reported to the E-911 MSAG Coordinator. That verified addresses are appended to the address information in the E-911AddressPoint Layer. To work in coordination with county and city GIS agencies to formulate an authoritative address layer that will be used by government, non-government and private agencies for address verification in King County. To make sure that up-to-date GIS data is uploaded on to the new XTrakker map application. To ensure that new telecommunications technologies introduced into the public sector to communicate with E-911 are geographically locatable on the XTrakker map application. To continue to work with MicroData GIS mapping vendor for support on software, hardware and data related to 911 and GIS. Finally, to ensure that call taker staff at PSAPs are trained on how to use the GIS based location identification software primarily the XTrakker map application.

- The E-911 GIS Mapping Administrator and the E-911 GIS Mapping Analyst work in coordination to provide support to 12 PSAPs of King County 24/7. GIS staff report directly to the E-911 Program Manager.

    o The E-911 GIS Mapping Administrator and the E-911 GIS Mapping Analyst will be required to keep current with updates to GIS layers that have been modified by the KCGIS Center, Transit, KCEGIS, and any other participating GIS agencies from which E-911 acquires GIS data. The E-911 GIS Mapping Administrator and the E-911 GIS Mapping Analyst will report any data discrepancies back to the providing agency when discovered by the E-911 program or PSAP staff. The E-911 GIS Mapping Administrator or the E-911 GIS Mapping Analyst will field locate residential, business, public, and other geographic entities reported to the MSAG Coordinator by an address authority or to meet a specific PSAP request for site or street verification. Primary duty of the E-911 GIS Mapping Analyst will be to site verify information reported to the MSAG Coordinator. GIS data will be collected and processed through the x9GIS software and updates will be transmitted to the PSAPs as well as to KCGIS and city GIS agencies working in conjunction with the E-911 Program Office.

- Both GIS professionals are responsible for maintenance and management of the GIS data used on the map displays as well as coordinating GIS data information with King County GIS Center staff, the TNET group, and city, county, state, 911 GIS offices. The E-911 GIS Mapping Administrator or the E-911 GIS Mapping Analyst are responsible for notifying PSAP and police agencies about data collection in their jurisdiction, responding to public requests for information about the address project, vendor requests for information and GIS data, and assisting in field data collection outside of the E-911 GPS Address project's scope of work. Furthermore, the GIS Mapping Administrator will be tasked with the responsibility to make sure mapping is functional and working at all 12 PSAPs. The E-911 GIS Mapping Analyst is also responsible for GPS field data collection and responding to public requests for information about the E-911 Address

project. Primarily the GIS Mapping Analyst will be in the field verifying address information sent to the MSAG Coordinator.

- E-911's core customer base is comprised of the 12 Public Safety Answering Points (PSAPs) that handle 911 emergency calls and route requests to appropriate public safety agency staff for response. PSAPs are located throughout King County serving regional populations and/or local areas confined by city boundaries.

- The GIS business strategy of the E-911 Program Office primarily supports the use of GIS applications and data to locate wireless, wireline and VoIP 911 distress calls. These wireless, wireline, and VoIP distress calls are displayed on the XTrakker map viewer software installed at each King County supported PSAP. XTrakker is a specialized GIS based application from MicroData GIS, designed for PSAP use to automatically display caller location and provide discrepancy reports. Each PSAP call taker and/or dispatcher phone is attached to an XTrakker map application that uses KCGIS data necessary to support accurate call location determination.

- The E-911 Program Office also distributes required GIS data to the PSAPs. The primary current location data source is the E-911_ROADS layer that is a hybrid road layer generated from ST_ADDRESS and TNET and the E-911 address point layer for use on the XTrakker map application at the PSAPs. The E-911 GIS Program processes KCGIS data using a MicroData ArcGIS based extension called X9GIS. X9GIS converts KCGIS data from the state plane coordinate system into geographic coordinates (latitude and longitude) and performs other data formatting required by XTrakker to locate wireless, wireline, and VOIP 911 calls. The X9GIS software is an extension onto ArcGIS 9.3. E-911 GIS also provides other data layers, such as coverage areas, cell tower locations, and dispatch zone boundaries. Individual PSAPs may also request custom data, such as specific site or building locations, or integration of local computer aided dispatch (CAD) data. These data are also processed by E-911 using X9GIS software. Once processed, E-911 distributes GIS data via 911-Net, a closed network providing secure access to each PSAP.

- Key strengths of the E-911 GIS program include a fully operational environment that has proven its ability to deliver highly accurate GIS data supported by an effective front end application to facilitate the work of PSAP call takers. Coordination by the E-911 Office and all 39 address authorities to report address information to the E-911 MSAG Coordinator. XTrakker software provides an effective data management tool for administration of E-911 GIS data. Staffing limitations in responding to all PSAP GIS data and support requests are mitigated by hiring GIS professional staff to help with GIS data development at the PSAPs.

- Opportunities include future coordination with the KCGIS Center to exchange GIS data. Coordination of site point data exchange through an authoritative address layer and updates between E-911 and KCGIS on addressing related issues. E-911 GIS is also in a good position to communicate key changes to county geography (new buildings) on a near-live basis to the rest of KCGIS. Other opportunities include preparing E-911 GIS data for Next Generation 911. Next Generation 911 will use the XML data format. This will enable E-911 to use various other elements of an address point such as building type as part of the address information to be displayed for the call taker on a 911 call. GIS data coordination between the E-911 Office and the PSAPs may become more streamlined if the PSAPs in King County go forward with consolidation. A consolidated PSAP structure will allow E-911 to streamline GIS services and data requests to and from the PSAPs.

- A key challenge is keeping up with new and changed address information in King County on a daily basis as it is submitted by the addressing authorities. In order to keep city and county address information current in King County, the E-911 Program Office GIS and MSAG coordinator process address information per request from any of the 39 addressing authorities as changes are submitted to E-911. E-911 continues to update the address point layer as address information is created, changed, or updated.

- The key long-term goal of the E-911 Program Office is to keep up-to-date with changes within the E-911 industry. A major component of the long-term goal is to keep mapping up-to-date at the

PSAPs with the latest geographic changes which includes an x, y location of all addressed structures within King County. This mapping system is used to identify the location of wireless, landline, and VOIP 911 callers on a map at the call answering positions. Currently caller locations are identified with an address for landline and VOIP calls and latitude/longitude location for wireless. On wireless calls there is no association of the caller's location with an actual street address. It is becoming more important for caller locations to be associated with specific addresses. In order to accomplish the address association in the mapping system, the addresses throughout King County must be GPS located. Wireless 911 distress calls to PSAPs have increased steadily over the last few years. GIS is an essential tool to help locate wireless 911 distress calls.

▪ E-911 GIS Program's role within KCGIS is primarily as a data coordinator out to PSAP end users. E-911 GIS is also in a key position to notify KCGIS data maintainers of data update or accuracy enhancement needs and will coordinate the exchange of address information.

4.4.2   Ongoing and New Projects

Name	**Pictometry Oblique Imagery Deployment**
Description	Pictometry oblique and orthogonal imagery runs as an extension on the E-911 phone maps that call takers and dispatchers use as an enhanced visual display to pinpoint the caller's exact location. This project will coordinate distribution of Pictometry imagery to police, fire, medical, and emergency operations centers who request a copy of the imagery set.
Interdependencies	KCGIS Center.
Status	Active
Target	Bi-annual
Activity	▪ Replace Dell Pictometry servers with new HP Proliant servers. ▪ Deploy, train and administer Pictometry data imagery set to all 12 PSAPs. ▪ Coordinate distribution of Pictometry imagery to King County EMS and EOC agencies that request the data. ▪ Train user agencies on the Pictometry image viewer.

Name	**Next Generation (NG-911) E-911 Pilot**
Description	The next generation enhanced 911 system will use GIS data as the address database for 911 call routing. The NG-911 pilot will test the ability of the NG-911 equipment and database to utilize King County E-911 GIS data for call routing and address location purposes.
Interdependencies	None.
Status	Testing
Target	2015
Activity	▪ Test E-911 Address Point data through NG-911 system.

4.4.3   Hardware, Software, and Database Systems Changes

- None.

4.4.4   Staffing Changes

- None.

4.4.5   Other Changes

- None anticipated.

4.5 DES – Facilities Management Division

4.5.1 Agency GIS Overview, Priorities, and Goals

- Agency Mission – The mission of the Department of Executive Services, Facilities Management Division (FMD) is "to manage and operate the County's capital assets by developing and maintaining cost conscious, sustainable, quality facilities and environments". FMD builds, manages, and maintains the land, buildings, and other structures owned, leased, and operated by King County general government agencies.

- Facilities Management Division functions for which future GIS support is planned or envisioned include:

    o Managing County's Real Estate Portfolio

    o Long-term Space Planning

    o Lease Management

    o Parks and General Government CIP Planning and Development

    o Permit Management

    o Facility Management – EPA, NOAH and NDPES planning and mapping and annexation implementation

- There is no organizational unit responsible for GIS functions within FMD. The FMD representative to the KCGIS Technical Committee provides some internal coordination. Agency staff GIS skills continue to be concentrated in a very small number of individuals. At present, therefore, GIS resource use is predominantly limited to services purchased from the KCGIS Center Client Services group, primarily in the form of mapping. The continuing long-term goal for FMD is for agency staff to become further trained and more proficient in using GIS data and software on their own.

- FMD has a high quality color office printer available in the Real Estate Services Section, which is capable of producing color 11x17 prints. The division also has large scale plotter capabilities in the Capital Planning Section, due to the need there for architectural renderings and other CAD drawings. Additionally, through the Print Shop, FMD has access to large format printing and scanning. However, there is no GIS data server in FMD.

4.5.2 Ongoing and New Projects

Name	**Update Real Property Layer in KCGIS**
Description	Use defined process to ensure the Real Property layer in KCGIS is an actual reflection of FMD managed property at any given time.
Interdependencies	KCGIS
Status	On-going
Target	December 31, 2015
Activity	▪ Perform updates to KCGIS regarding property that has been purchased or sold.

Name	**NPDES Permits Viewer**
Description	Continue the joint project with WLRD that has the ability to view maps and inspection and compliance information related to federally mandated National Pollutant Discharge Elimination System (NPDES) Municipal Permit requirements.
Interdependencies	WLRD
Status	On-going
Target	December 31, 2015
Activity	▪ Developed view for NPDES information linked to parcel number. ▪ Update data in conjunction with WLRD.

Name	**Eastside Rail Corridor (ERC)**
Description	The ERC is a regional utility corridor for gas, electricity, water and wastewater. It is a forty-two mile corridor that extends from Renton to Snohomish and from Woodinville to Redmond. The mapping of the utilities, easements and permits of this trail are a priority for FMD-Real Estate Services.
Interdependencies	None
Status	On-going
Target	December 31, 2015
Activity	▪ Coordinate mapping the geographic information and property instruments associated with the ERC.

4.5.3   Hardware, Software, and Database Systems Changes
▪ Staff using GIS will use the floating license pool.

4.5.4   Staffing Changes
▪ None anticipated.

4.5.5   Other Changes
▪ Other FMD staff will be introduced to GIS capabilities and uses.

4.6 DNRP – Wastewater Treatment Division

4.6.1 Agency GIS Overview, Priorities, and Goals

- WTD Background:
  - o King County protects water quality and prevents water pollution by providing wastewater treatment to 17 cities including Muckleshoot Tribe and 17 local sewer utilities. The county's Wastewater Treatment Division (WTD) serves approximately 1.5 million people, including most urban areas of King County and parts of south Snohomish County and northeast Pierce County.
  - o The mission of WTD is "to protect public health and enhance the environment by treating and reclaiming water, recycling solids and generating energy."
  - o The WTD GIS team assists in this mandate by developing, interpreting, displaying, maintaining and providing access to spatially oriented data. This service enhances and supports WTD project planning, design, and operation strategies.

- WTD GIS Team Organization:
  - o The WTD GIS Team consists of four FTE GIS Specialists matrixed to WTD from the King County GIS Center. This arrangement allows for the administrative management of the analysts coming from the KCGIS Center Manager, while day-to-day work-load management comes from the supervisor of the Modeling & GIS Group in the Planning, Inspections, Modeling, Monitoring and (GIS) Mapping Unit (PIM3) within WTD.
  - o The four specialists share responsibility for project support, cartography, and data maintenance with each specialist focusing in different areas including database administration and application development.

- The WTD GIS team provides the following services:
  - o Cartography: for presentations, reports, and analyses.
  - o Analysis: to answer questions regarding the wastewater system infrastructure, capacity, future needs, property, political boundaries, and population changes.
  - o Data development, maintenance, and updates.
  - o Database and geodatabase development and management.
  - o Programming/Application Development: applications for individual, division, and county-wide use.
  - o User support.

- WTD GIS Program Challenges:
  - o The application of GIS in WTD necessitates that GIS analysts assume additional roles in WTD including database administration, programming, and web application development. The WTD GIS team manages data sets that are relied on for making decisions within the Wastewater Treatment Division. Many other data sets exist or are being created that need administration. The GIS Team's expertise and institutional knowledge places them in a position to assume specific database management roles for the division. Projects are currently underway to integrate work programs and data with GIS data. This integration will be managed by the WTD GIS group.
  - o Training in Web and database development, cartography, and ArcGIS application development are prerequisites for the WTD GIS team in order for it to meet future goals.

- WTD GIS Cross Agency Issues – The WTD GIS team will:

- o Continue to require support from Enterprise GIS section of the KCGIS Center on ArcGIS Server and WTD's Intranet Data Access Applications.

- o Continue to work with the Parks and Recreation, Water and Land Resources, and Solid Waste divisions within the Department of Natural Resources. WTD, Parks, WLRD, and Solid Waste share data on the DNRP server.

- o WTD is working with SPU in a combined effort to geographically define the flow inputs within the CSO basins and optimize the integration between conveyance systems.

- o Continue to work with Public Health to obtain and share septic system location information.

- o Work with local sewer agencies to acquire sewer service data, water line data (when appropriate), and storm line data (when appropriate). An effort to collect updates from the local sewer agencies is currently underway.

- ▪ WTD GIS Strategic Initiatives

  - o Cartography – The WTD GIS Team will continue working to expand and improve their current skills in cartographic science and art through the combined use of GIS software, digital illustration, graphic design, and publication tools. It is the group's goal to decrease or eliminate reliance on outside graphic design firms when a map or graphic is needed by developing the cartography and graphic skills including concept development, data collection, cartographic design, and cartographic production.

  - o Analysis – Several tools have been developed that allow the casual user to create basic maps and do powerful data queries with relatively little training. The software and data are accessible but neither is being used to its fullest potential. The WTD GIS Team will educate WTD managers about GIS and teach casual users the abilities that they already have but of which they might not be aware. Access to these tools and data, coupled with the knowledge of their existence and usage, will not only save time in the acquisition of project related data but will also provide information to the decision-making process that might otherwise be left out.

  - o Division Level Information Management – Numerous scattered data sets used by WTD are not being efficiently utilized in conjunction with other available data. These data are financial, asset management, engineering, inspection, maintenance, and monitoring related. WTD is developing a systematic approach to its data maintenance, organization, and development with a single point of access through which all of the division's data can be accessed and leveraged against other data. The current approach is to leave stewardship and management to the stewards' discretion but to provide the most robust access. A project plan has been developed through the recently phased out Intranet Data Access Application planning effort and the transition to individual funded projects has begun (see the Flow Data Portal project).

- ▪ WTD GIS and KCGIS Relations

  - o Much of the data created for the WTD strategic initiatives are posted to the county-wide spatial data warehouse. This data can also be accessed through the King County GIS Data Portal site. To adequately support a breadth of application needs, the WTD GIS team creates data to meet high standards as developed and documented by the KCGIS Center. In this way they not only support WTD, but also the county as a whole via efforts such as the Lower Duwamish Superfund cleanup, climate change work, the NPDES stormwater permit inventory, and equity and social justice support and analysis. The matrix management approach applied to the WTD analysts is effective in that the analysts support WTD's mission while still supporting county-wide GIS efforts through cross-departmental support, data development, and by sitting on workgroups.

4.6.2   Ongoing and New Projects

Name	**System Map Book**
Description	A hard copy map book of the King County sewer system, local sewer lines, and local jurisdictions. Relationship to other agencies conveyance and overall hydrology is the focus. Benefits operations and maintenance, asset management, and conveyance system improvement sections.
Interdependencies	Local sewer agencies
Status	Not started
Target	2015
Activity	▪ Extensive cartographic work and atlas production in addition to data QA/QC and stakeholder evaluations.

Name	**Site Plan Development**
Description	Completing a data layer showing the wastewater facilities including building foot prints. This will assist the division in maintenance, disaster planning and other activities. Benefits all WTD staff.
Interdependencies	None.
Status	25% complete.
Target	On-going
Activity	▪ Research orthophotos and parcel data layer to determine best data source. ▪ Extract data. ▪ Update site plan dataset.

Name	**Sewer Agency Boundary Update**
Description	Update local sewer service boundaries for all contributing local sewer agencies. Benefits O&M, Planning, Capacity Charge, and other King County staff.
Interdependencies	Local Sewer Agencies.
Status	20% complete
Target	Q1 2015
Activity	▪ Review comprehensive plans & agency boundaries. ▪ Update agency boundaries.

Name	**Storm Water Feature Class**
Description	A geodatabase of all storm water collection systems within WTD properties. Currently King County is developing a comprehensive storm water collection dataset. This information with assist WTD staff in planning, upgrades and maintenance of King County's system. Benefits WTD O&M, Engineering, and Planning staff as well as WLRD.
Interdependencies	Local storm water agencies.
Status	5% complete.
Target	Q1 2015
Activity	▪ Collect data. ▪ Compile data. ▪ Create GDB. ▪ Create Storm Drain Systems Map Book.

Name	**Local Sewer Lines Update**
Description	A geodatabase of all local agencies' sewer facilities and local lines within the WTD Service Area. There is an ongoing effort to obtain the most up to date local sewer information as we proceed to enhance our systems capacity and verify connectivity between local sewer with King County WTD system. Benefits WTD modeling, O&M, and Facilities Inspection staff.
Interdependencies	Local sewer agencies
Status	80% complete
Target	1st Quarter 2015
Activity	▪ Contact local sewer agencies. ▪ Implement collected GIS data into WTD's FIRS database. ▪ Effort is ongoing as data are acquired.

Name	**Geolocate WTD Facilities**
Description	Acquire GPS readings for all manholes, pump stations, regulator stations and other facilities within the WTD sewer system. This will enable the WTD GIS team to create a positionally accurate dataset to assist WTD staff in planning and maintenance of King County sewers. Benefits WTD modeling, O&M, and Facilities Inspection staff.
Interdependencies	GPS Intern.
Status	45% complete

Target	2018
Activity	▪ GPS facilities. ▪ Conflate FIRS data to GPS information.

Name	**Conveyance System Improvement (CSI) Database**
Description	CSI information and updates stored in a database; eventually accessed through the Web. Benefits WTD Planning staff. Driven by CSI Project update.
Interdependencies	None.
Status	25% complete.
Target	Q2 2016
Activity	▪ Collect all CSI data into database. ▪ Launch website access.

Name	**CSO Basin Description**
Description	Implement the CSO basin description model developed in 2009 to describe the impervious and pervious flow inputs for all CSO basins defined by both King County and SPU. Benefits WTD modeling, O&M, Planning, Industrial Waste, and Facilities Inspection staff.
Interdependencies	Seattle Public Utilities
Status	90% complete.
Target	Q1 2015
Activity	▪ Run model for all 38 basins resulting in basin descriptions.

Name	**CIP Database**
Description	Create database of WTD CIP projects and related geographic features. For use in web map for accessing CIP data and tracking progress of projects.
Interdependencies	WTD finance/Prism DB
Status	25%
Target	Q2 2015
Activity	▪ Collect CIP data back to 2005 - complete

	▪ Create database tracking projects by project, data year, and budget. – 50% ▪ Create geographic features – Started ▪ Design and Create simple web map for access to associated data – Not started ▪ Link to PRSIM and provide access through web map – Not started

Name	**CSO Database**
Description	Create a database of CSO overflow data by event that can be rolled up into a 20yr rolling average report as required by WA Ecology.
Interdependencies	CSO Program
Status	50%
Target	Q2 2015
Activity	▪ Collect all event and overflow data going back to 1993 - complete ▪ Build and populated database - complete ▪ Normalize and QAQC data – 50% ▪ Generate 20yr rolling average report as required by Ecology yearly – not started ▪ Add rain data – not started

Name	**Open Source GIS Tools Evaluation**
Description	Evaluate use of Postgres, PostGIS, Github, QGIS, TileMill and other open source GIS programs and tools for support of WTD programs and projects.
Interdependencies	None
Status	In progress
Target	Q4 2016
Activity	▪ Evaluate use of GitHub for scheduled tasks, data posting simple map rendering viewer Test Postgres/PostGIS as a database repository for flow data ▪ Test connectivity of ArcGIS products to Postgres/PostGIS ▪ Developing Mobile WTD Facility Viewer for phone/tablet devices for in-house staffs

Name	**Off-line WTD Facility Viewer**
Description	Develop a WTD facility viewer application that can be used without internet/network connection (off-line) situation. This application will use staff's laptop's web browser (IE, Chrome, Firefox) without internet connection. Plan is to deploy the application in

	an emergency storm event or to field crews who go to the sites with no network or poor internet connectivity.
Interdependencies	None.
Status	Not Started
Target	Q2 2016
Activity	▪ Use of TileMill (open source software) to generate base map and necessary layer tiles for off-line WTD Facility Viewer applications for use during emergency situation or for locations with no network connection.

Name	**Industrial Waste Permit Access Tool**
Description	Design and build a website which will display the property at which Industrial Waste Permits, and Discharge Locations are held. This benefits all WTD staff by providing means to click on properties and be able to receive all industrial waste permit information by property.
Interdependencies	PIMS Database, GIS Center Servers
Status	5%
Target	Q1 2015
Activity	▪ Evaluate data intended to be accessed using the tool, use of Industrial Waste PIMS database to pull data through web based mapping application for end-user access. Create a complete inventory of all Permit site locations and use these sites as the depot for end user data access.

4.6.3 Hardware, Software, and Database Systems Changes

▪ None..

4.6.4 Staffing Changes

▪ The WTD GIS Team consists of 4.0 FTE GIS Specialists matrixed to WTD from the King County GIS Center.

▪ Depending upon fund availability, there are plans to hire 2-3 summer interns to continue GPS data collection of the WTD system and resume updating our engineering record drawing GIS database lookup tool..

4.6.5 Other Changes

▪ None.

4.7 DNRP – Water and Land Resources Division

4.7.1 Agency GIS Overview, Priorities, and Goals

- **WLR Mission:**

  - Serve as stewards of safe and clean water resources, healthy habitats, and functioning landscapes throughout King County.

  - Protect and enhance quality of life, public health, and public safety by managing our water and land "infrastructure" (farms, forests, shorelines and marine waters, rivers, lakes, streams, WRIAs and associated watersheds, drainage, groundwater systems throughout the region).

  - Serve as technical experts on King County's regional environmental quality for defining and implementing strategies for resource protection.

- **WLR GIS Program Organization:**

  WLR GIS program consists of three GIS analysts with a unique set up under the KCGIS Center matrix management structure. These analysts are in the same work unit as DNRP/WLR GIS, Visual Communication & Web, working jointly with other technical experts to deliver services and products for WLR work programs, the DNRP Director's Office, and other department/division special programs. These three staff members receive project assignments from DNRP/WLR GIS, Visual Communication & Web unit manager based on areas of expertise and project workloads.

- **WLR GIS Services**

  GIS provides data, tools and analytical services to assist in policy analysis, planning and monitoring of the natural environment. WLR GIS staff create and manage integrated Web based GIS applications and other Web application tools for WLR programs. Multiple mandates include sustaining healthy watersheds, protecting public health, water and air quality, preserving open space, working farms and forests, ensuring adequate water for people and fish, and managing public drainage systems and protecting/restoring habitats. All data sets that are created and maintained by the following programs are available on the KCGIS Spatial Data Warehouse (PLIBRARY), and/or the DNRP Data Warehouse (DNRPLIB). WLR GIS also provides training and technical support to desktop users. Specific business functions include:

  - ***Rural and Regional Services*** – GIS services for programs including WRIA/watershed support, groundwater management, Ecological Services, Noxious Weeds, Forestry/Agriculture, hazardous waste, acquisition, TDR, and basin stewardship.

  - ***River & Floodplain Management*** – GIS data and analysis are used to predict and monitor flood hazard zones and provide basin-wide regional analysis.

  - ***Science & Technical Support*** – Water quality and quantity, hydrologic assessment and analysis. Coordination with various data management and field activities to ensure efficient access to all relevant spatial data.

  - ***Stormwater Services*** – GIS supports service delivery analysis, drainage investigation, and inspection services. Regulation, compliance, and NPDES permit compliance are also supported.

  - ***DNRP Director's Office*** – GIS is used for analysis of some regional policies, such as Open Space, Forest, Water, Energy and Air Quality/Climate change.

  - ***WLR Division Director's Office*** – GIS is used for analysis of policy and funding strategies work programs.

4.7.2   Ongoing and New Projects

Name	**Weed Watcher**
Description	Noxious Weed Program of WLRD needs a web-based application to compile weeds data collected by volunteers to help protect our natural resources in King County from the impacts of invasive plants. The application was launched in May 2012, but some more work needs to be done.
Interdependencies	SQL Server database, ArcGIS scripts and tools, ArcGIS Server map services.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain web application including viewer. ▪ Maintain GIS data.

Name	**Rivers Facilities Inventory Project**
Description	The River and Floodplain Management Section of WLRD needs an information system to manage flood protection facilities and properties and track changes over time. A flood protection facility includes levees and revetments. The application is launched in phases and is being actively used.
Interdependencies	SQL Server database, ArcGIS scripts and tools, ArcGIS Server map services.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain web application including viewer. ▪ Maintain GIS data. ▪ Update and improve maintenance module. ▪ Add new condition assessment module.

Name	**WTRCRS – Maintenance**
Description	Data maintenance and new orthoimagery-based updates.
Interdependencies	In coordination with KCGIS Center and new orthoimagery.
Status	As needed.
Target	Ongoing.
Activity	▪ Update data as needed.

	▪ New orthoimagery-based updates to WTRCRS.

Name	**WTRBDY –Maintenance**
Description	Data maintenance using new orthoimagery.
Interdependencies	KCGIS Center staff as time allows and WLR.
Status	In progress.
Target	Ongoing.
Activity	▪ Update data using orthoimagery. ▪ Coordinate with WTRCRS updates.

Name	**ArcGIS Server and JavaScript API (JSAPI) Applications**
Description	Develop and maintain user-friendly ArcGIS Server and JSAPI applications. WLR maintains several JSAPI applications served on the Internet – Flood Photo Viewer, Sandbag Distribution Location Viewer, Salmon Watcher Viewer and Snoqualmie Riparian Viewer, TDR Property Map Viewer, Pesticide Free Public Spaces Viewer, DNRP CIP Viewer, PBRS Viewer and Municipal Office Buildings Viewer (Wayfinding), embedded maps for Hazardous Waste locations and farmland preservation land program. Other new JSAPI applications are in planning process or are in progress.
Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain existing applications. ▪ Develop new applications as needed.

Name	**ArcIMS Mapsets**
Description	Maintain existing iMAP map sets. WLR Division maintains Groundwater Program, Hydrographic Information, Noxious Weed Location, Stormwater and SMP map sets.
Interdependencies	The KCGIS Center is leading this effort.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain existing iMAP map sets and applications.

Name	**Parcel Alert Lookup System (PALS) Application**
Description	Maintain PALS application that will allow County employees to identify potential safety issues (alerts) at specific parcels based on encounters with, or reported concerns about residents, dogs, weapons/firearms, hazardous conditions, etc.
Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain the application.

Name	**Groundwater Application**
Description	The King County Groundwater Protection Program maintains a database of groundwater quality and water level data. The online application lets users search the data, run reports, export selected wells data or view data on the map.
Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain the application.

Name	**Candidate Conservation Parcels Application**
Description	Maintain web application and GIS dataset with future acquisition priorities for WLRD.
Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain the application.

Name	**PBRS Viewer**
Description	Develop and maintain an interactive mapping web application for PBRS program to show current use taxation properties participating in PBRS, Forestry and Agriculture programs.

Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ Create and maintain GIS layers. ▪ Create and maintain the application.

Name	**Equity and Social Justice (ESJ) Viewer**
Description	Develop and maintain a map viewer and map services showing demographic data layers along with different WLRD program data layers such as Stormwater and Rivers datasets.
Interdependencies	None.
Status	Not yet started.
Target	Fall 2014.
Activity	▪ Create and maintain the application.

Name	**Landslide Hazard Analysis and Viewer**
Description	Generate analysis and develop and maintain a viewer showing analysis data.
Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ Generate datasets showing landslide analysis. ▪ Create and maintain the application.

Name	**Cedar River Corridor Planning**
Description	Cedar River corridor analysis and planning.
Interdependencies	None.
Status	In progress.
Target	Ongoing.

Activity	▪ Create and maintain the application.

Name	**Green River System Wide Improvement Framework (SWIF) Project**
Description	Provide GIS assistance in running analysis and maintaining GIS datasets. Maintain SharePoint extranet site for Rivers employees and non-King County agencies such as consultants participating in the project.
Interdependencies	None.
Status	In progress.
Target	Ongoing.
Activity	▪ GIS analysis and SharePoint extranet site.

Name	**WLRD Property Search Tool**
Description	Develop and maintain a web application with web front end to track WLRD property interest by each program such as flood, Stormwater etc.
Interdependencies	None.
Status	Not yet started.
Target	Ongoing.
Activity	▪ Create and maintain the application.

Name	**Stormwater Field Data Collection**
Description	Maintain map services, data, database replication and ArcGIS Mobile project for Stormwater data collection.
Interdependencies	ArcGIS Mobile
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain map services, data database replication and ArcGIS Mobile project.

Name	**Outfalls Discharge & Ditch Screening (ODDS) Program Data Collection**
Description	ODDS data collection using Esri's Collector for ArcGIS native app.

Interdependencies	Esri's Collector for ArcGIS native app
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain data and map service

Name	**Noxious Weeds Field Data Collection**
Description	Maintain map services, data, and ArcGIS Mobile project for noxious weeds data collection.
Interdependencies	ArcGIS Mobile
Status	In progress.
Target	Ongoing.
Activity	▪ Maintain map services, data and ArcGIS Mobile project.

4.7.3   Hardware, Software, and Database Systems Changes

▪ None planned.

4.7.4   Staffing Changes

▪ None. WLR GIS has 3.0 FTE in 2015-2016.

4.7.5   Other Changes

▪ None planned.

4.8 DNRP – Parks and Recreation Division

4.8.1 Agency GIS Overview, Priorities, and Goals

- The King County Parks and Recreation Division operates and maintains an extensive system of parks, trails, facilities, and recreational programs throughout unincorporated King County. This system includes heavily-used sites of major regional significance, such as Marymoor Park and Cougar Mountain Regional Wildland Park, a system of regional trails which are popular for both recreation and everyday commuting, and a large and growing network of backcountry trails.

- The Parks and Recreation Division focusses on four primary business functions:

   o Facility Maintenance and Site Management - Maintain and improve parks, trails, and facilities; acquire and manage open space; and restore and conserve natural resource lands.

   o Recreation and Event Services - Provide primary recreation services for residents in unincorporated areas of King County and maintain a world-class aquatic center and a highly acclaimed outdoor concert and entertainment venue.

   o Program Development and Land Management - Perform and coordinate long-term planning for sites and facilities, and prepare the annual and long-term Capital Improvement Programs.

   o Collaborative Partnerships - Plan and implement new recreational and educational programs, facilities, and amenities, in partnership with other public agencies and corporate sponsors.

- The Parks GIS Program supports the Division's work in all of these areas using an allocation of 1.0 FTE. This staffing allocation is shared by three professional GIS analysts, who are matrixed to the Division through the King County GIS Center and are supervised by the Parks GIS Program Manager. These staff members are affiliated with KCGIS Center Client Services and Enterprise Operations, which enables ready access to the specialized services and advanced expertise available from staff members in those units when needed for Division projects.

- The Parks GIS Program provides Division managers and staff with a complete range of GIS products and services. These include data development and maintenance, data interpretation and analysis, map design and production, application development and maintenance, Web-based mapping and information services, end-user training, and project consulting. The majority of products and services are provided on request to managers and staff within the Division's administrative offices in Seattle, but requests are also received and processed for managers and staff working in outlying administration and maintenance offices, as well as at individual parks.

- During 2015 and 2016 the Parks GIS Program is supporting the Division on numerous projects and initiatives. A major focus is on data development and mapping in support of the County's growing network of backcountry trails and to support initiatives to complete key links in the regional trail system. Parks GIS is also providing support to key site management and resource planning efforts, as well as enhancing critical property acquisition information to ensure parks are managed in compliance with funding and deed restrictions.

- The work of the Parks GIS Program is subject to two key interagency dependencies. The first of these is that the accuracy and reliability of its products and services depend to a large extent upon consistent, timely maintenance of data by the staff of other County GIS programs. The second key dependency is that of access to the specialized skills and advanced expertise of the KCGIS Center Client Services staff and Enterprise Operations staff. Both groups are open, approachable, and supportive of the needs of Parks GIS, but the availability of specific staff at specific times can be limited due to heavy demands which are often placed upon them.

- The Parks GIS Program has a relatively specialized focus and, therefore, plays a limited role in the overall KCGIS enterprise. There is a small amount of interaction with the GIS programs in other divisions of DNRP, but little or no involvement with GIS programs in other departments. Parks GIS maintains the small number of enterprise data layers for which it has responsibility and is actively involved in the initiatives and operations of the KCGIS Technical Committee.

4.8.2   Ongoing and New Projects

Name	**Backcountry Trail Data Development and Mapping**
Description	Expansion and enhancement of detailed data for backcountry trails within KC Parks management units throughout King County, and revised mapping of all affected BCT sites. This supports ongoing management and planning needs for this valuable recreational resource, which is growing significantly in popularity and volume of use.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse and ArcGIS Desktop and Server software. Availability and access to accurate, reliable spatial and tabular data for backcountry trails within KC Parks management units.
Status	In progress.
Target	2015 - End of Second Quarter
Activity	- Integrate newly mapped and newly updated BCT trail alignment data into existing BCT trail data layers. - Update and expand BCT tabular attribute data as newly compiled and newly updated trail information becomes available. - Revise existing BCT maps as necessary to incorporate new and updated trail information. Design and produce new maps as necessary for the existing BCT map series.

Name	**Forest Assessment Project**
Description	Development and management of forest and natural resource data to support forest assessments and development of a long term forest stewardship plan for county properties. This includes mapping and analysis to support forest management decision-making, as well as related application and web mapping service development as needed.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse and ArcGIS Desktop and Server software. Availability and access to forest planning and management data.
Status	In progress.
Target	2015 - End of Fourth Quarter.
Activity	Refine, manage, and maintain existing GIS data for forests and related natural resources.

	▪ Design and develop a GIS database specifically focused on forest assessment needs. Incorporate this database into ParkView, the DNRP GIS data library, and web mapping and information services as appropriate. ▪ Provide data, mapping, and analysis to support the development of a long term forest stewardship plan. ▪ Provide data, mapping, and analysis to field managers to support forest management decisions. ▪ Design and develop forest management applications and web mapping services as needed.

Name	**Forest Stewardship Plans**
Description	Development and adoption of stewardship plans for the working forests within the Black Diamond Open Space site, the Cougar/Squak Corridor, Preston Ridge Forest, and Mitchell Hill Forest. These plans will ensure appropriate, sustainable management of the forestlands within these properties, as well as the compatibility of forestry plans and operations with other recreation and open space management objectives and plans.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse and ArcGIS Desktop and Server software. Availability and access to forest planning and management data.
Status	In progress.
Target	2016 - End of Second Quarter.
Activity	▪ Refine, manage, and maintain existing GIS data for forests and related natural resources. ▪ Design and develop a GIS database specifically focused on forest stewardship planning needs. ▪ Provide data, mapping, and analysis to support the development of forest stewardship plans for the Black Diamond Open Space site, the Cougar/Squak Corridor, Preston Ridge Forest, and Mitchell Hill Forest. ▪ Design and develop forest stewardship applications and web mapping services as needed.

Name	**Site Management Guidelines**
Description	Development and adoption of site management guidelines for natural area and open space park sites, such as the Bass Lake Natural Area Complex and the Maury Island Site. These guidelines will direct appropriate stewardship and public use of the sites consistent with purpose of acquisition, deed restrictions, land use regulations, and county policies.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse and ArcGIS Desktop and Server software. Availability and access to planning and

	management data.
Status	In progress.
Target	2016 - End of Third Quarter.
Activity	▪ Refine, manage, and maintain existing GIS data for parks, trails, open space, and related natural resources.
	▪ Provide data, mapping, and analysis to support the development of site management guidelines for the Bass Lake Natural Area Complex, the Maury Island Site, and other areas as identified by Parks managers.

Name	**Parks Property Acquisition Funding History - Database Improvements & Data Reconciliation**
Description	Improvements to the Parks Property Acquisition Funding History Database which will enhance the structure and organization of its contents. This will enable entry of new data which is both simpler and more detailed and accurate than at present. It will also facilitate more efficient research using these data. Existing data will also be reviewed and evaluated in order to reconcile conflicting historical records currently present in the database.
Interdependencies	Availability of verifiable current and historic information on the funding of Parks property acquisitions which is detailed, accurate, and complete. Reliable operation and availability of the KCGIS Spatial Data Warehouse and the DNRP GIS data server.
Status	In progress.
Target	2015 - End of Second Quarter - Design and implement database improvements, including restructuring of selected database elements; Reconcile conflicting historical records in the database.
	2015 - End of Fourth Quarter - Populate the revised database with new/additional and corrected data resulting from ongoing research.
Activity	▪ Design and implement targeted improvements to the Parks Property Acquisition Funding History Database, including restructuring of selected database elements.
	▪ Review and evaluate the historical records in the database and reconcile all identified conflicts.
	▪ Populate the revised database with new/additional and corrected data resulting from ongoing research.

Name	**ParkFinder Application Optimization for Mobile Devices**
Description	Development and modification of the ParkFinder application to optimize its web-based mapping and information retrieval functionality for users of mobile devices. This will employ the capabilities of the ArcGIS Server API and ArcGIS Mobile to provide dynamic, highly responsive information query and mapping of KC parks,

	trails, and related facilities. This project will be coordinated with other similar application projects being carried out by Parks and KCGIS Center staff.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse and ArcGIS Server software; Acquisition of ArcGIS Mobile deployment and/or runtime licenses for system testing; Availability of design and development assistance from KCGIS Center staff.
Status	On hold, pending direction to proceed from Parks management.
Target	2015 - End of Second Quarter.
Activity	▪ Gather all relevant functionality and ease-of-use requirements. ▪ Design and develop all necessary modifications to ParkFinder, addressing all identified application requirements. ▪ Field test the modified version of ParkFinder, using the Division's spatial and tabular data, as well as other key enterprise data layers typically of interest to Parks managers and staff and to the general public. ▪ Deploy the modified version of ParkFinder and provide all necessary training, user documentation, and technical support to users.

4.8.3   Hardware, Software, and Database Systems Changes

▪ None planned.

4.8.4   Staffing Changes

▪ None planned.

4.8.5   Other Changes

▪ None planned.

4.9   DNRP – Solid Waste Division

4.9.1   Agency GIS Overview, Priorities, and Goals

- The King County Solid Waste Division provides transfer and disposal services for solid waste materials to residential and non-residential customers, as well as commercial disposal services, throughout King County. The Division operates eight geographically dispersed transfer stations, two rural drop boxes, and the Cedar Hills Regional Landfill in Maple Valley, which is the only operational landfill within the County. The primary goal of these activities is to conserve natural and renewable resources in King County by providing customers with readily available services and by promoting public awareness of conservation, recycling, and the benefits of participation in the Division's programs.

- The Solid Waste Division comprises five operational units:

  - Engineering Services Section - Plans and manages the development of transfer facilities, new landfill areas, and the closure of completed landfill areas at the Cedar Hills Regional Landfill.

  - Finance and Administration Section - Provides financial management and support services for the Division.

  - Operations Section - Operates the Division's transfer stations and the Cedar Hills Regional Landfill, as well as the capture and management of byproducts of decomposing waste, such as methane gas.

  - Planning and Communications Section - Performs and coordinates ongoing data analysis and evaluation, long-term strategic planning, and policy development for the division, including preparation of the Comprehensive Solid Waste Management Plan.

  - Recycling and Environmental Services Section - Develops and manages programs for food scrap recycling, household hazardous waste, green building, product stewardship, brownfields and contaminated sites, and other waste prevention and recycling topics.

- The Solid Waste GIS Program supports the Division's work in all of these areas using an allocation of 1.0 FTE. This staffing allocation is shared by two professional GIS analysts, who are matrixed to the Division through the King County GIS Center and are supervised by the Solid Waste GIS Program Manager. These staff members are affiliated with KCGIS Center Client Services and Enterprise Operations, which enables ready access to the specialized services and advanced expertise available in those units when needed for Division projects.

- The Solid Waste GIS Program provides Division managers and staff with a complete range of GIS products and services. These include data development and maintenance, data interpretation and analysis, map design and production, application development and maintenance, Web-based mapping and information services, end-user training, and project consulting. The majority of products and services are provided on request to managers and staff within the Division's administrative offices in Seattle, but requests are also received and processed for managers and staff working at outlying division facilities, including the eight transfer stations and the Cedar Hills Regional Landfill. These include maps and reports used for a variety of planning, management, and maintenance purposes.

- During 2015 and 2016 the Solid Waste GIS Program is supporting the Division on several key projects and initiatives. A major focus is on customer route mapping and travel-time analysis to support demand management assessment for the County's transfer stations. Renewed emphasis is also being placed on modelling and analyzing debris generated by various types of natural disasters, to aid in planning for the cleanup, storage, and final disposition of such material. Data management, mapping, and analysis also continue in support of recycling and environmental service programs for County residents and businesses, including the Green Schools program, Wastemobile events, and the Community Litter Cleanup Program.

- The work of the Solid Waste GIS Program is subject to two key interagency dependencies. The first of these is that the accuracy and reliability of its products and services depend to a large extent upon consistent, timely maintenance of data by the staff of other County GIS programs. The second key dependency is that of access to the specialized skills and advanced expertise of the KCGIS Center Client Services staff and Enterprise Operations staff. Both groups are open, approachable, and supportive of the needs of Solid Waste GIS, but the availability of specific staff at specific times can be limited due to heavy demands which are often placed upon them.

- The Solid Waste GIS Program has a relatively specialized focus and, therefore, plays a limited role in the overall KCGIS enterprise. There is a small amount of interaction with the GIS programs in other divisions of DNRP, but little or no involvement with GIS programs in other departments. Solid Waste GIS maintains the small number of enterprise data layers for which it has responsibility and is actively involved in the initiatives and operations of the KCGIS Technical Committee.

4.9.2 Ongoing and New Projects

Name	**Transfer Station Demand Management Analysis**
Description	Analysis and mapping of customer volumes, trip origins, and effective operational service areas for the County's transfer stations. This will support management and planning needs for balancing current customer loads at existing transfer stations, as well as planning for future facilities whose capacity and locations will optimize efficiency of access for customers while minimizing environmental impacts of the growing volume of trips made by the general public to these facilities.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse, the DNRP GIS data server, and ArcGIS Desktop and Server software; Availability and access to accurate, detailed data for transfer station customer volumes, trip origins and routes, and traffic counts on adjacent roadways.
Status	On hold, pending direction to proceed from SWD management.
Target	2015 - End of Second Quarter.
Activity	▪ Compile and organize all available data for transfer station customer volumes, trip origins and routes, and traffic counts on adjacent roadways. Design and create any necessary spatial and/or tabular data layers. ▪ Map routes to each transfer station from trip origins reported by customers. Use road network characteristics and traffic count data to calculate estimated driving times for each route mapped. ▪ Map routes to nearest alternative transfer station for selected trip origins, when another transfer station is located approximately the same distance from the trip origin. Use road network characteristics and traffic count data to calculate estimated driving times for each alternate route mapped. ▪ Create rings of equal driving time around each transfer station being studied. Use these to identify areas of overlap within which customers could be encouraged, through education and outreach, to use alternate transfer stations when real-time monitoring indicates significant imbalances between customer volumes at the nearest facility and those at alternate sites. ▪ Use results of these analyses to support SWD in developing revised service area boundaries for existing transfer stations, to assist in determining need, potential

	demand, and suitable locations for new or replacement transfer stations.

Name	**Disaster Debris Management Planning Support**
Description	Acquisition and development of data to support calculations of estimated debris volumes resulting from types of natural disasters which are likely to occur within King County. These estimated debris volumes will be mapped and analyzed to support the inclusion of a more comprehensive range of disaster scenarios in the SWD Comprehensive Plan for which response plans will be developed for debris cleanup, removal, and storage. This mapping and analysis will be used to identify and assess: 1) Probable areas of high, medium, and low volumes of debris generation and transport resulting from earthquakes, tsunamis, flooding, landslides, windstorms, and other natural disasters; and 2) Potential sites for temporary storage of disaster-generated debris in the vicinity of likely disaster sites. Critical infrastructure (e.g., roads and bridges) will also be mapped and evaluated to estimate its likely availability in adequate post-disaster condition to be usable for transporting large volumes of debris to temporary storage sites and from those sites to permanent disposal locations. Estimated volumes of debris to be expected in different areas resulting from various types of disasters will be calculated using HAZUS software from the Federal Emergency Management Agency.
Interdependencies	Availability of comprehensive detailed data for: 1) Environmental factors which would influence the location and severity of a natural disaster, including seismology; soils; geology; terrain; slopes; erosion; flooding; and hydrology; and 2) Characteristics of the built environment which would influence the likelihood and volume of debris generation from different types of disasters, including structure types, sizes, ages, materials, and density; zoning and land use; and infrastructure; Applicability of HAZUS modelling software to King County's complex urban and rural geography and to the types of disasters most likely to occur in this area; Reliable operation and availability of the KCGIS Spatial Data Warehouse, the DNRP GIS data server, and ArcGIS software.
Status	In progress.
Target	2015 – End of Fourth Quarter.
Activity	▪ Coordinate with SWD Planning and Communications project management and staff to determine the specific disaster scenario event types and locations to be modelled and evaluated. ▪ Research and confirm availability of all needed data for environmental factors and characteristics of the built environment which are relevant for each disaster scenario event type and location to be modelled and evaluated. ▪ Conduct data modelling and analysis using the HAZUS software to estimate likely debris volumes which could be expected to result from each disaster scenario event. For event types in which debris transport typically occurs, conduct additional data modelling and analysis to estimate the extent of the material that would be transported, as well as to identify areas in which debris would most likely be deposited. ▪ Conduct criteria-based modelling to identify suitable sites in the vicinity of each disaster scenario event, for potential use as temporary debris storage areas. Use infrastructure data to assess the likelihood of access being possible to reach

	these sites, given that significant damage to roads, bridges, and other critical infrastructure may have occurred.
	▪ Design and produce maps and reports illustrating and describing each disaster scenario event, the estimated volume of debris generated and the areas expected to be affected by it, and the sites which have been identified as potential temporary debris storage areas.
	▪ Coordinate with SWD Planning and Communications project management and staff to incorporate the results of this work into the Division's Comprehensive Plan.

Name	**Cedar Hills Landfill Complaint Tracking and Mapping**
Description	Development and deployment of an application for recording, tracking, and processing odor, noise, vibration, and bird complaints in areas adjacent to the Cedar Hills Regional Landfill. A spatially-referenced complaint database will be designed and tested, along with a new data entry interface, to ensure consistent recording of complaints. A set of standard maps and reports will also be developed to display information by area, time period, and type of complaint. Additional project activities may include creating automated processes for custom map generation and for analysis of complaint data.
Interdependencies	Reliable operation and availability of the DNRP GIS data server and ArcGIS Server software; Availability of design and development assistance from KCGIS Center staff.
Status	On hold, pending completion of higher-priority projects and initiatives.
Target	2016 – End of Second Quarter.
Activity	▪ Complete definition of application and database requirements.
	▪ Design, test, refine, and deploy complaint data entry interface.
	▪ Design, test, refine, and populate complaint tracking database; Integrate legacy complaint records into this database.
	▪ Train operators on use of data entry interface and update procedures.
	▪ Develop set of standard maps and reports for data display and analysis.

Name	**"What Do I Do With…?" Mapping Optimization for Mobile Devices**
Description	Development and modification of the mapping functionality within the "What Do I Do With…?" application to optimize its utility and ease-of-use for individuals accessing it with mobile devices. This will employ the capabilities of the ArcGIS Server API and ArcGIS Mobile to provide dynamic, highly responsive information query and mapping of participating "What Do I Do With…?" reuse, recycling, exchange, and disposal sites. This project will be coordinated with other similar application projects being carried out by Solid Waste and KCGIS Center staff.
Interdependencies	Reliable operation and availability of the KCGIS Spatial Data Warehouse and ArcGIS Server software; Acquisition of ArcGIS Mobile deployment and/or runtime

	licenses for Solid Waste staff; Availability of design and development assistance from KCGIS Center staff.
Status	On hold, pending direction to proceed from Solid Waste management.
Target	2015 - End of Second Quarter.
Activity	▪ Gather all relevant mapping functionality and ease-of-use requirements. ▪ Design and develop all necessary modifications to the mapping functionality of "What do I do with...?", addressing all identified application requirements. ▪ Field test the modified version of "What do I do with...?", using the Division's geocoded database of household and business material reuse, recycling, exchange, and disposal sites, as well as other key enterprise data layers typically of interest to Solid Waste managers and staff and to the general public. ▪ Deploy the modified version of "What do I do with...?" and provide all necessary training, user documentation, and technical support to users.

4.9.3   Hardware, Software, and Database Systems Changes

▪ None planned.

4.9.4   Staffing Changes

▪ None planned.

4.9.5   Other Changes

▪ None planned.

4.10 Department of Public Health

4.10.1 Agency GIS Overview, Priorities, and Goals

- The mission of the Department of Public Health – Seattle and King County is to achieve and sustain healthy people and healthy communities throughout King County by providing public health services which promote health and prevent disease. Public Health – Seattle and King County provides direct services and education to the residents of King County in order to prevent health problems from starting, spreading, or progressing. Public Health helps the entire community, protecting and promoting the health of all residents.

- Currently the Department of Public Health does not have a coordinated GIS program, nor does it have any person with full-time GIS responsibilities. Several divisions within the department are using GIS in support of their business needs and provide GIS services to a broader community. Despite having knowledgeable people who can use GIS and can express department needs, the absence of a coordinated program presents a challenge to identify future needs and hinders the ability to develop best practices for GIS in the department. The majority of GIS related activity originally was concentrated within three divisions: Assessment, Policy Development and Evaluation (APDE), Environmental Health (EH), and Emergency Medical Services (EMS). Recently, HIV/AIDS and the TB program have been developing their GIS activities. The Preparedness division has been utilizing KCGIS for maps. Recent budget cuts however had a negative effect on GIS activity in the Department, especially in EH, where the GIS program is currently in the state of hibernation due to reassignment of their leading GIS specialist. Overall, there are currently several employees who are using GIS on an almost every day basis (power users) and another several people who have ArcGIS installed on their desktops. Most of the GIS licenses are now accessed through a pooled central server. In the past few years several attempts were made to bring a broader awareness and recognition of the importance of GIS in Public Health. Currently there are regular Health GIS Users meetings. In the meetings members give short presentations of their current work or recent map products and have the opportunity to share tips and tricks that can be utilized in everyday work.

- Listed below are the business functions within the department that use or plan to use GIS:

    o **Environmental Health (EH)** staff have been using GIS software and providing some GIS related service within EH and also the Public Health Department since 1998. EH had one power user who did much of the GIS related work. He was reassigned to a non-GIS position in 2010, but was brought on for 50% to do some mapping related tasks last year (2013). Two other staff are trained and using GIS software more than once a week, and there are several interns and a couple of staff who have been using GIS software for various projects. GIS related information is also used extensively by most staff through the KCGIS Center Internet mapping sites (*iMAP* and *Parcel Viewer*). The division uses the KCGIS Spatial Data Warehouse to access geographic data. The Marine Recovery Area project on Vashon Island is supporting a 50% FTE position for GIS related tasks currently.

    o Until recently **Assessment, Policy Development and Evaluation (APDE)** used GIS primarily for creating static thematic maps to display data on health events in King County and Washington State. APDE receives requests for these descriptive maps from other Public Health Department units that have no GIS capability of their own, from the community, research and health organizations, and the general public. Maps have been provided for successful grant applications. APDE also produces a number of reports each year that include thematic maps on topics such as the distribution of childhood asthma hospitalization rates by ZIP Code in King County. APDE also uses GIS to geocode health events for statistical analysis below the county level. In 2011 APDE implemented new health reporting areas that more closely match city boundaries. Two staff members are GIS power users, and there are eight additional ArcGIS trained users. The division is using the KCGIS Spatial Data Warehouse to access most geographic data. In 2014,

APDE is likely to map the latest release of American Community Survey (ACS) data, create maps for the Communities Count report and Community Health Indicators. APDE will attempt to utilize the new features of ArcGIS 10.X.X to automate mapping and create map books. APDE is also utilizing Stata to produce automated charts and thematic maps, and is exploring using Leaflet and Socrata for online map presentation.

o *Emergency Medical Services (EMS)* is utilizing GIS capabilities to produce timely thematic maps for customers (fire departments and paramedic providers) as well as to perform quality control, data analyses, planning and research. GIS is widely used to model optimal Medic Unit location analysis for the King County. The requests for maps are generated by EMS staff, other units within Public Health, hospitals, research organizations and general public. Various annual and semi-annual reports with cartographic materials are published and distributed among all Seattle - King County fire departments, paramedic providers, County Council, and others. Currently one staff is a power GIS user. The division is using the KCGIS Spatial Data Warehouse to access geographic data.

o Public Health *Preparedness* works with KCGIS to produce maps of healthcare facilities (hospitals, long term care facilities), community organizations, pharmacies and healthcare vendors, as well as sites Public Health uses for alternate care facilities and mass dispensing that can be used for preparedness and response planning. Maps have also been produced with support from EH division during H1N1 response with clinic, pharmacy and dispensing locations. The requests for maps are primarily generated by Preparedness staff. There is currently one ArcGIS license.

o The *HIV/STD Program* has used GIS to produce thematic maps showing HIV, STD rates by zip code and census tract. GIS analyses were used to compare the residential pattern of participants in the NHBS surveys of men who have sex with men and injections drug users with previous surveys and reported HIV cases in these groups.

o The *Communicable Disease Epidemiology & Immunizations Section* has used SAS-based GIS tools to map cases and rates of notifiable conditions by census tract. In 2014-15, the section will be using the ArcGIS shared license to map health disparities for notifiable conditions at the census tract level by poverty and race. This work is funded by a small grant from CSTE; the section will not be able to use ArcGIS to support ongoing GIS projects without identifying additional sources of funding.

4.10.2 Ongoing and New Projects

Name	**EH – Marine Recovery Area Vashon/Maury Islands OnSite Sewage Project**
Description	Create maps, create lists and perform project updates regarding MRA activities in regards to OnSite Septic Systems on Project related parcels.
Interdependencies	Envision Connect database improvements, staff training, automating update processes using ArcGIS Models, using KC DNRP sampling results for compliance analysis and for locating new problem areas.
Status	Ongoing
Target	Ongoing (funding dependent)
Activity	▪ Mapping status of OnSite Sewage activities for compliance, creating web maps. ▪ Creating Model Builder tools for automation to potentially script updates. ▪ Coordinating with KC DNRP sampling activities and analysis on site selection and

	result monitoring. • Future to have web maps available and updated regularly (daily/weekly?) and not static maps every 6 months.

Name	**EH – OnSite System AsBuilt Image Connection**
Description	Provides for accessing AsBuilt Images through *iMAP* interface.
Interdependencies	Envision data export. Layer creation, updates and maintenance. Connection to imaging software data system.
Status	Ongoing
Target	Ongoing (funding dependent)
Activity	• Submitted a plan for organizing and maintaining data. Plan is awaiting resources to implement. • An upgrade to the existing image management system Acorde (now called Oracle Imaging and Process Management) was realized in late 2009. The ability to access all of the records is hampered by the fact that significant data was not recorded at the time of scanning of old documents requiring each group of records to be opened individually to get the significant data such as parcel number or address. This is very time consuming process.

Name	**APDE – Spatial Analysis of Health Data**
Description	Perform spatial analysis, looking for clusters of health events.
Interdependencies	Competing projects and resources; receipt of timely health data; education curve to clustering software; unit redesign and priorities may shift.
Status	Planning phase
Target	2015
Activity	• Planning.

Name	**EMS – Emergency Medical Services Information and Mapping System (EMSIMS) Upgrade**
Description	EMSIMS allows evaluation and planning of existing and potential paramedic unit locations.
Interdependencies	Internal EMS process. Potentially TNET.
Status	Planning phase.

Target	2015
Activity	▪ Evaluation of existing EMSIMS version. ▪ Updating existing road network within the model to reflect new changes.

Name	**National HIV/AIDS Behavioral Surveillance System**
Description	Map case reports for HIV/AIDS and sexually transmitted diseases and census tract SES data. Map residences of participants of a series of on-going surveys of persons at risk for HIV infection.
Interdependencies	Will be incorporating disease reporting data from the STD clinic.
Status	Ongoing.
Target	Ongoing.
Activity	▪ Evaluation. ▪ Planning.

Name	**Communicable Disease Epidemiology & Immunizations Section**
Description	Map case reports for notifiable conditions and map rates of notifiable conditions at the census tract level. Map health disparities for notifiable conditions at the census tract level by poverty and race.
Interdependencies	Will be incorporating notifiable condition reporting data from the Communicable Disease Database.
Status	Ongoing.
Target	Ongoing.
Activity	▪ Surveillance. ▪ Evaluation.

Name	**Health Reporting Areas**
Description	As cities continue to annex areas, APDE will update the health reporting areas.
Interdependencies	None.
Status	Ongoing.
Target	Ongoing.

Activity	▪
	▪

Name	**EMS Facilities**
Description	EMS will update Fire Stations, Medic Units, and major Hospital locations.
Interdependencies	
Status	Ongoing.
Target	Ongoing.
Activity	▪
	▪

Name	**APDE – Equity and Social Justice Maps**
Description	Conduct analyses and present key determinants of equity within King County; share data in both static map and downloadable shapefiles for advanced users; joint project with KCGIS and other departments.
Interdependencies	Receipt of external equity data; working with other departments.
Status	Ongoing
Target	Ongoing
Activity	▪ Evaluation.
	▪

Name	**APDE – Health Assessment and Visualization System (HAVS)**
Description	The Health Assessment and Visualization System (HAVS) is a new system being developed to expand APDE capacity to perform data analysis and include automated health assessment routines with output being displayed in multiple formats included a visualization package called Weave (Web-based Analysis and Visualization Environment). Weave is being developed by Open Indicator Consortium (http://info.oicweave.org/projects/weave). This project involves data visualization via maps, charts and other formats. The program is open source, and the work will continue with beta releases and enhancing data presentation.
Interdependencies	Users existing APDE data sources (vital records, census and survey data) and will be expandable to include new sources.
Status	Ongoing.

Target	Ongoing.
Activity	▪ Evaluation. ▪ Planning.

4.10.3 Hardware, Software, and Database Systems Changes

- Currently the department has the following licenses: ArcGIS ArcView Concurrent – 2 (pooled); ArcGIS ArcView Single Use – 1; ArcPad Application Builder – 1; Maptitude – 1.

4.10.4 Staffing Changes

- None planned.

4.10.5 Other Changes

- None planned.

4.11 DOT – Road Services Division

4.11.1 Agency GIS Overview, Priorities, and Goals

- The Road Services Division (RSD) operates the county public road system. Functions include designing, building, and maintaining publicly owned roads, bridges, pathways, and traffic safety in unincorporated areas of King County. The division strives to make the county's transportation system safe and efficient for all uses and modes of travel. Road Services' GIS activities support this mission in the areas of planning, engineering, construction, maintenance, emergency response, and traffic services.

- The scope of GIS services for RSD continues to increase through the availability of RSD business data in applications and SDE. There are four RSD public facing web mapping applications along with two mobile applications: My Commute Mobile and Bike Map mobile. The Roads Asset Editor and Roads Viewer are two internal applications developed to meet specific business needs, both of which are used by field staff and Engineers. The RSD enterprise geodatabase continues to grow with new feature classes being developed or migrated to SDE. Roads' replicated TNET, which synchronizes Roads edits nightly with the TNET Master database, continues to synch changes as Roads GIS staff make ongoing improvements to TNET. With ArcGIS usage minutes tracked by the KCGIS Center RSD regularly ranks as one of the highest minute counts in King County.

- Phase 2 of a major project under the acronym RCAMM (Roads Comprehensive Asset and Maintenance Management) rolled out September 2014 and is slated for phase 3 release in Q 2 of 2015. The software Cityworks, purchased under the RCAMM project, has heavy dependencies on the Roads Enterprise GIS database where the authoritative asset inventory resides. Development and migration of the phase II asset inventory into the RSD enterprise geodatabase is the GIS Team's highest priority for 2015 and 2016.

- RSD GIS Team core services defined:

  - **Roads Enterprise GIS Program Management**

    GIS work program oversight, coordination and resource management of the GIS Team. Enterprise GIS infrastructure services coordination such as server and desktop hardware requirements, databases and commercial-off-the-shelf products (COTS). Provide management of RSD GIS training and business outreach.

  - **GIS Applications**

    Develop business critical and end-user applications for data management, analysis, mapping and visualization. These services include web mapping applications, GIS data entry and back-office data processing and integration applications.

  - **Coordinate GIS Data Development, Maintenance and Security**

    Design and implement geodatabase structure, metadata, and data management procedures for Roads GIS enterprise data resources. Coordinate with business owners of GIS data to maintain currency and accuracy of the data. Manage data security and access.

- The RSD GIS Team will continue to have cross-agency dependencies on the KCGIS Center for technical expertise provided by matrix resources as well as DOT IT in 2015 for database and server infrastructure services.

- Expertise in transportation and specific RSD programs and business systems enable the RSD staff in Administration, Maintenance & Operations, and Traffic & Engineering to make use of GIS products and applications specific to RSD business. Listed below are some of the business functions within the Road Services Division that rely on geographic information.

- o **ADA Ramps Retrofit Program** – GIS is used to map the location and condition of sidewalk ramps for compliance with American with Disabilities Act federal law. The program relies heavily on GIS data and software to organize and report progress to the Executive and Management teams.

- o **Capital Improvement Program (CIP)** – Identifies programs, roadway projects, bridge projects, intersections and traffic flow improvements, including intelligent transportation systems. Projects are mapped, reported, and analyzed using GIS.

- o **Concurrency Management Program** – The King County Council adopted a Transportation Concurrency Management requirement in Ordinance 11617, effective January 9, 1995, and revised under Ordinance 14375, effective June 28, 2002. The ordinance establishes a concurrency management system that assures adequate transportation facilities are available to meet the requirements of new development in King County. GIS is used to depict the annually updated levels of service and monitored corridors adopted by Council.

- o **Cultural Resources Protection** – Laws at the federal, state and local level require agencies such as the RSD to consider impacts of their projects on significant cultural resources. Furthermore, discovery of cultural resources during construction can lead to schedule and budget overruns. For these reasons, the RSD and the Historic Preservation Program (HPP) are developing a GIS planning tool that will increase King County's ability to efficiently manage and protect archaeological and other cultural resources. The planning tool includes the collection and maintenance of data housed in a digital library, and an archaeological sensitivity model created and expressed in GIS.

- o **Emergency Preparedness and Response** – Prepare for, and respond to natural and man-made disaster events affecting the safety and closure of bridges and roadways. Response work includes snow and ice removal, removal of downed trees, landslide cleanup, flood response activities, and emergency road repair. Issues related to such events are reported and illustrated using GIS.

- o **Engineering Technical Support Services** – In-house services that support the RSD's CIP include, but are not limited to, field surveying using GPS, materials lab analysis, computer aided drafting design and mapping, and record management and archival support.

- o **Environmental Compliance** – The GIS data, tools, and applications necessary for the RSD to achieve environmental compliance require constant update and evaluation by staff with technical expertise in roadway construction, maintenance, and engineering. GIS is a critical tool in complying with federal, state, and local environmental laws, regulations and policies. The federal Endangered Species Act, as well as the Clean Water Act, requires detailed geographic data regarding waterways habitat and storm water. Compliance with other federal environmental regulations, such as Army Corps of Engineers permit requirements, is greatly enhanced with accurate GIS data and applications. At the state level, fish and wildlife code and water quality laws necessitate accurate geographic data in terms of roadways, fish habitat, and storm water. Adherence to the state Growth Management Act is also more easily accomplished with accurate geographic environmental data. King County codes such as the Critical Area Ordinance also require the RSD to use and update accurate GIS information and applications.

- o **GASB34 Annual Report** – GIS supports the Road Services Unit to evaluate the newly acquired right-of-ways/roads for this federally mandated annual report.

- o **Inter-jurisdictional Service Contracts** – The Road Services Division provides a significant level of contract service to eleven cities that have incorporated since 1990, or expanded significantly through annexation. The division also has valued contractual relationships with many additional cities. Services provided by contract include maintenance, engineering, environmental, and transportation planning services.

- o **Road and Bridge Maintenance Operations** – Provides regular ongoing maintenance, operations, and repair activities to ensure a safe, quality roadway system in unincorporated

King County. GIS tools are used to track facility inventories that are maintained and managed using the division's Maintenance Management Systems (MMS). An annual King County Bridge Report is required by King County ordinance. The report provides a countywide bridge map and performs an analysis of structurally deficient and functionally obsolete bridges.

- o **Road Improvement District (RID) Program** – Boundaries are mapped and defined for RID areas for ordinance submittals to the King County Council.

- o **Road Vacations** – Boundaries for road vacation areas are mapped and legally defined for ordinance submittals to the King County Council. All ordinances are accompanied with a map.

- o **Roadlog Program** – Inventorying and documenting new roads, maintaining the WSDOT Mobility database and an annual Road Index Map Book (as required by King County ordinance and RCW) is submitted to the County Road Administration Board (CRAB).

- o **Traffic Operations** – Includes the collection and analysis of traffic count and accident data; operation of traffic control systems; design, inventory tracking, installation and maintenance of safety improvements including signals and other traffic control equipment (traffic cameras), guardrails, signs, and pavement markings; traffic impact review; and identification and implementation of neighborhood safety improvements.

- o **Transportation Planning** – The Transportation Needs Report (TNR), which represents the transportation improvement projects necessary for the next 20 years, is being revised along with the method used to prioritize projects for funding in the CIP. GIS is used as a primary tool to aggregate different types of transportation projects to common corridors. A corridor approach to programming diverse CIP projects will lead to efficiencies to program planning, design, mitigation and construction.

- o **Road Maintenance Operations –** The Road Maintenance section of Roads Services Division uses GIS technology to determine where assets are located and to preform analysis for work planning, storm response and historical research. Assets in GIS include barricades, curbs, gutters, sidewalks, shoulders, planter strips, planter boxes, mowable slopes, fences, jersey barriers, retaining walls, speed bumps, pipes, ditches, catch basins, headwalls, retention/detentions facilities, manholes, and trash racks.

4.11.2 Ongoing and New Projects

The following projects named with **Asset Inventory Development** are one of several projects aimed at migrating legacy data management systems to the Roads Enterprise GIS. RSD needs to spatially reference various required data elements in a consistent, reliable, and accessible manner to meet operational requirements. These data elements consist of assets and events that occur along the roadway (e.g. roads and their condition, signs, drainage, etc.).

Name	**Asset Inventory Development – Stormwater Data Migration**
Description	Field collected data and supplemental data from RNIS will be migrated and published into a King County central stormwater database with other contributing agencies. The data collection process, upload to GIS, and delivery to a work order system will require database development and application development work.
Interdependencies	Resource availability within RSD.
Status	In progress.
Target	Q1 2015

Activity	▪ Field processed data are published to the Roads Enterprise GIS database. Upcoming: ▪ Conflate RNIS and field collected (NPDES) data to the new King County wide storm water database. ▪ Develop data maintenance application. ▪ Develop data sharing scripts between RSD database & KC database. ▪ Configure Cityworks for storm water assets.

Name	**Roadlog Route Maintenance Application**
Description	Roadlog routes and milepost reference data are in GIS. Now a route maintenance application is needed to provide the ability to create, update and retire routes as well as perform calibration against routes using reference points.
Interdependencies	Resource availability within RSD.
Status	Not started.
Target	2015
Activity	▪ Next step is to develop a route maintenance tool for Roadlog by possibly expanding road segment route editor.

Name	**Automated Vehicle Location (AVL)**
Description	A computer-based vehicle tracking system for RSD's rolling stock, providing actual real-time position of each vehicle equipped with proper communication and GPS hardware.
Interdependencies	Support from KCIT and DOT Fleet for various requirements.
Status	Pilot completed. Ongoing needs assessment is in progress.
Target	2014-15
Activity	▪ The project has not been extended to include more hardware for the remaining fleet. Enhancements to the Compass Com Server database is planned to leverage the data in a more efficient way.

Name	**GPS Photo Pilot**
Description	Road Services currently takes digital photos in the field to document anything from construction projects to roadway damage. A new GPS camera will be used to test the ease with which photos can be taken, uploaded and displayed in the Roads Viewer.

Interdependencies	Field staff and Roads GIS staff availability.
Status	Not started. (tabled pending resources)
Target	Q1 2015
Activity	▪ None.

Name	**TNET Centerline Improvements**
Description	RSD has assumed responsibility for maintaining the road centerline geography in unincorporated King County with RSD's own replicated TNET and actively participates in the TNET consortium.
Interdependencies	Availability of TNET geodatabase for editing.
Status	In progress.
Target	This is a long-term improvement program. Major improvements to unincorporated areas of TNET occurred during 2008. Ongoing maintenance will continue as needed. Currently a major change to cul-de-sac data maintenance best practices is driving a number of data changes.
Activity	▪ Creating and updating the centerlines for unincorporated King County with TNET extension using the best available aerial photography.

Name	**RSD GIS Data Conflation**
Description	RSD GIS data need to be conflated to reference roadway routes based on one linear network (TNET).
Interdependencies	RSD GIS staff availability.
Status	In progress.
Target	2014 - 2015
Activity	▪ New methods for conflation to new data design have begun. ▪ Service Level Tiers are currently in progress.

Name	**TNET Architecture Redesign**
Description	The TNET architecture needs to be updated and redesigned to provide a better, more supportable model.
Interdependencies	The TNET consortium will need to buy off on the new design and will not be implemented until a new TNET Editor has been developed to support data updates.

Status	In progress.
Target	2015
Activity	▪ Database Design accepted. ▪ Next steps: Application development, conflation of existing TNET related data

Name	**Data Management Routines**
Description	As data are conflated to TNET and/or route model, automated routines for data publication, data quality and integrity checks need to be developed.
Interdependencies	Data are migrated to a geodatabase referencing the TNET centerline.
Status	In progress.
Target	Ongoing.
Activity	▪ Automated nightly routines have been developed to publish RSD GIS data to the Roads GIS data library as well as to KCGIS Center's Plibrary. Additionally, data checking routines against TNET have been developed. Once RSD's routing model is developed further data quality and integrity checks will be developed.

Name	**Expansion of Roads Viewer (Internal)**
Description	Expand the Roads Viewer application to incorporate requested functionality. The intent is to support the business with an easy to use application without requiring the use of an ArcGIS client application. Most data layers are now available via this application however additional reporting functionality will be developed.
Interdependencies	CRAGSSTAGE, CRAGSPROD and GISSQLPUB servers maintained by the KCGIS Center. RSD's GIS enterprise database, KCGIS Center developer resources and other Roads business databases.
Status	In progress.
Target	2014-15
Activity	▪ Complete configuration tool to update viewer listing of data without cracking open the code. ▪ Convert application to Java Script API ▪ Next steps are to define and develop new functionality (i.e. analysis, reporting, etc). ▪ Replace old address geocoder with new compound geocoder ▪ Create buffer tool to do common analysis ▪ Printing module

Name	**Expansion of Roads Asset Editor (Internal)**
Description	Expand the Roads Asset Editor to manage all route/event business data. Field staff as well as engineers use this application to create, update and retire assets. So far the editor supports three assets. The next step is to make this application configurable so anyone on the GIS Team may add new assets to the editor for maintenance.
Interdependencies	CRAGSSTAGE, CRAGSPROD and GISSQLPUB servers maintained by the KCGIS Center. RSD's GIS enterprise database, KCGIS Center developer resources and other Roads business databases.
Status	In progress.
Target	2014-15
Activity	▪ Complete configuration tool to update editor listing of data without cracking open the code. ▪ Convert application to Java Script API ▪ Next steps are to define and develop new functionality ▪ Replace old address geocoder with new compound geocoder ▪ Measure tool ▪ Printing module

4.11.3 Hardware, Software, and Database Systems Changes

▪ None.

4.11.4 Staffing Changes

▪ Reduction of 0.5 matrix FTE from the KCGIS Center for a total of 0.5 FTE in 2015-16.

▪ Reduced RSD GIS staff beginning in 2015: 1 GIS Specialist – Entry, and 1 GIS Specialist – Senior

4.11.5 Other Changes

▪ No other changes.

4.12 DOT – Information Technology

4.12.1 Agency GIS Overview, Priorities, and Goals

- The mission of the KCIT-DOT GIS workgroup is to provide the best possible GIS services in support of the Transit, Roads Services, Airport, Fleet and Marine Divisions in an effort to improve regional mobility and quality of life in King County. The KCIT-DOT GIS workgroup is a component of the Department of Information Technology (KCIT) aligned with the Department of Transportation (DOT). The workgroups within the KCIT-DOT form a comprehensive team for supporting DOT information systems infrastructure. Within the section, the KCIT-DOT support workgroup is focused on the day-to-day operational needs that provide support of all of DOT. For the years of 2014-2015, the focus of this group will continue to be providing GIS support for the Transit Division, although emphasis will be further broadened to encompass the growing needs of the other divisions within DOT. These include the ongoing maintenance of GIS data and applications necessary to support division, department, and county business needs. The KCIT-DOT GIS team represents the focal point for all spatial services, data, applications and support requests originating from within and from outside the department.

- GIS is a technology to spatially enable business data that has geographic contents, and KCIT-DOT GIS support workgroup provides GIS users a healthy, functioning system accessible to staff throughout the department so they may incorporate GIS tools and data into their workflows. This workgroup has a clear understanding of all KCIT-DOT GIS business functions, the geographic elements of these functions, and the best delivery mechanisms available to support them. This includes publication of spatial information in Transit enterprise databases with other business data; development of specialized extensions to GIS vendor products; development of whole new applications to support spatial data maintenance, access, visualization, and reporting; and advice to project managers on the acquisition of vendor products with geographic components. The KCIT-DOT GIS workgroup also has the responsibility for coordinating data maintenance of a variety of business specific spatial data layers. Both the support services and data maintenance coordination responsibilities are essential to many business functions within the agency.

- GIS professionals within the workgroup provide technical expertise. For the Transit Division, they provide transit business expertise, training, transit maps and data, user support, vendor software installation, application development and application support. These support services are targeted primarily at internal clients including Service Planning, Service Development, Service Quality, Service Communication, ParaTransit Operations, Design and Construction Program, Transit Speed and Reliability, Automatic Passenger Counters, Automatic Vehicle Location System, Customer Information, federally mandated Equity in Transit and Section 15 Reporting and DOT Director's Office. Also, Transit information systems projects often have geographic components necessitating GIS staff expertise. Currently, the highly visible Stop-Based Scheduling project has priority for the agency as it moves into production, and will continue to require consulting from the KCIT-DOT GIS program support workgroup. Providing excellent support services to existing operations within Transit, these capital projects, and other external clients (see below) will continue to be a challenge given current staffing levels and budget constraints.

- The KCIT-DOT GIS workgroup supports public data requests for Transit data. These requests come from businesses such as Google and Microsoft as well as from individual citizens. The data requested is made available on the Metro Online website, and is available for anyone to access after proceeding through a click through agreement. The transit data is specific in nature and is provisioned in the General Transit Feed Specification (GTFS). It is intended for use in trip planning and "real time" bus location applications on the Web and via smart phones. In addition to being the point of contact for outside access to Transit data, the GIS workgroup is involved with the external development community through developer workshops and direct response to developer questions.

- In 2014-2015 the KCIT-DOT will continue to search for ways to ensure the viability and sustainability of the TNET Consortium. This program is a consortium of regional cities, county agencies as well as public/private partnerships participating in maintaining a seamless database of transportation related spatial and attribute datasets. These datasets are housed centrally and maintained by transportation planners, city and county engineers, emergency response personnel and GIS analysts. This cooperative arrangement permits the availability of a high-accuracy, up-to-date transportation network suitable for a variety of transportation planning, operations, and related business functions throughout the region. The KCIT-DOT GIS workgroup currently plays four pivotal roles in the TNET program:

    o Maintenance of Transit specific pathways and non-represented cities. The KCIT-DOT GIS workgroup participates in the TNET Program as a consortium partner with the responsibility of data maintenance for all features within King County Metro's jurisdiction such as streets at park and rides, bases, transit centers, the transit tunnel, and the E-3 bus/rail way. The KCIT-DOT GIS workgroup also is responsible for data maintenance of features that extend outside of King County such as freeways, state routes, and roads necessary for routing buses in adjacent counties. Although the Roads Services Division is responsible for unincorporated King County street maintenance, the KCIT-DOT GIS workgroup performs limited, upon request editing of any "unclaimed" geographic areas within King County.

    o Support the master environment and each agency's implementation of TNET infrastructure. The TNET architecture consists of a central master repository that is replicated to each participating agency. The KCIT-DOT workgroup is responsible for managing the entire infrastructure of the master repository including the database, the software, developed applications and hardware (including the separate test and development environments). Support activities include monitoring the TNET system; ensuring access by consortium members; maintenance and administration of ArcSDE; ensuring the proper functioning of the connectivity infrastructure; server support; application maintenance; database maintenance and software upgrades; as well as operating system maintenance and upgrades. The KCIT-DOT GIS workgroup also provides assistance to all participating agencies in the support of their respective agency environments.

    o System modernization. The KCIT-DOT GIS workgroup is the primary entity tasked with the migration of the editing tools through application code and Esri product version changes. The TNET architecture will be reviewed and modernized as well. It will be aligned with the upcoming KCIT-DOT Transit data remodeling project aiming toward providing Linear Referencing Enabled dataset and applications.

    o Coordinate the TNET Consortium. The KCIT-DOT GIS workgroup serves as coordinator for the TNET Consortium. This includes coordinating editing conflicts between agencies; ensuring the proper and consistent implementation of the data maintenance standards; providing informational seminars to technical staff, management, and decision makers as requested; and hosting consortium meetings as needed.

- The KCIT-DOT GIS workgroup provides support to TNET Consortium members through a group email monitored by KCIT-DOT GIS staff (TNET@kingcounty.gov), and an informational website hosted by the KCGIS Center (www.kingcounty.gov/operations/GIS/KC_Projects/TNET.aspx). The KCGIS Center is regularly informed of Consortium activity so the enterprise might benefit from those relationships. The TNET project not only increases the number of users supported by the KCIT-DOT GIS, but it adds users from non-King County agencies that access this important and highly-visible system. It is an ongoing challenge for KCIT-DOT staff to prioritize the support required by Transportation Network Consortium members and efforts of internal divisions within DOT.

- Members of the KCIT-DOT GIS workgroup also participate on a variety of Federal workgroups to develop national standards for the communication of Transit spatial data to public and private

agencies. The goals are to convey King County DOT IT's requirements and minimize any impacts to the division in adopting these standards. Also, the KCIT-DOT workgroup is involved in the development of a transportation database of location-based transportation data to use in GIS across the state of Washington (www.wsdot.wa.gov/mapsdata/TransFramework/default.htm). As part of this framework effort, King County KCIT-DOT GIS staff has worked closely with Pierce County and Washington State DOT on an advisory team that supports a seamless multimodal transportation network between the two counties. King County benefits from this project in its alignment of transportation network features along the county boundary as it will support E-911 and Valley Comm emergency services provision and regional transportation planning. This work is temporarily suspended pending further funding of staff within Washington's DOT.

4.12.2 Ongoing and New Projects

Name	**Visual Basic 6 (VB6) Migration**
Description	Replace or retire all interactive and non-interactive VB6 applications. Effort continues in this direction but there are applications of both types that need to be moved to a more modern, supported language and architecture. The rate of development of replacement applications has been increased.
Interdependencies	None.
Status	In progress.
Target	2014
Activity	▪ Replacing VB6 and Esri MapObjects based VB6 Application such as GIS Tool Box and Stop Information System Application. ▪ Retire VB6 based application such as CreateMOGeocodeIndexes.exe.

Name	**Establish Web Service Based Transit Object Framework**
Description	Provide the ability to expose Transit GIS data types via Web Communication Foundation (WCF). Enable delivering Transit Data and applications with Service Oriented Architecture (SOA) and Software as a Service (SaaS).
Interdependencies	None.
Status	In progress.
Target	2014
Activity	▪ Building Transit Object Frameworks with .NET and enable XML Serialization of their data members. ▪ Construct WCF based Web Services to expose Transit Object Data Type and provide common functions to let other developers access the data. ▪ Framework is conceptually complete, just needs refinement and testing for production release

Name	**Esri Product Stack Migration from 10.0 Sp3 to 10.1+**
Description	The KCIT-DOT GIS production application environment is currently at the 10.0 with SP3 level. 2013 will see the migration of all of our applications and systems to the latest version, 10.1. This is a major effort, as many applications will need to be recompiled to ensure working with the vendor's new library set.
Interdependencies	Coordination with KCGIS Center in regards to the migration and the relationships with enterprise resources. Coordination with ArcGIS Server and SDE users.
Status	Ongoing.
Target	2014
Activity	▪ All ArcMap desktop users have been successfully migrated to ArcMap 10.1+. ▪ Migration of the SDE instances, along with the corresponding code is ongoing and in final testing. ▪ Complete migration to the 10.1+ environment is expected to take place by early 2014.

Name	**Adverse Weather Reroute and Diversion Data Set**
Description	This project will develop a comprehensive Transit adverse weather reroute and common diversion data set. Although the past couple years has seen GIS creation of Transit reroute data, integration of the multiple sources and business entities has yet to occur. Additionally, no production data exists yet for commonly used, non-weather related diversions. The goal of this project is to get agreement from all stakeholders on a coordinated approach toward creating and managing this data.
Interdependencies	Coordination with other Transit workgroups with a stake in adverse weather reroute and diversion data. This data set will be posted into the enterprise data warehouse when complete. (Currently only adverse weather reroutes are posted.)
Status	In progress.
Target	2014
Activity	▪ Key data layers have been created. Efforts for 2014 involve developing an improved and updated data creation process, and long term maintenance.

Name	**TNET Editing Application**
Description	This project will adapt the recently migrated TNET Editing Application to function on the new TNET data model, to be released in 2014. This model directly supports Linear Referencing Systems (LRS) and permits dynamic, event driven data visualization. This will permit the binding of business data to referential tables that relate to the core geometry. This application will support a broader range of data while streamlining data maintenance.

Interdependencies	All TNET data maintainers will need to migrate to and learn the new editing interface.
Status	In progress.
Target	2014
Activity	▪ Design, development, testing and production rollout expected to take place in 2014.

Name	**Interactive Transit System Web Application**
Description	This project builds on the Adverse Weather Map Application by providing customers with a content rich replacement for the current, static system map on Metro Online. The intent of this project is to create a way for users to explore and learn about their transit options. For example, the interface will provide users with schedule information at the stop level.
Interdependencies	This project could use the Transit Service base map created by KCGIS Center cartographic staff.
Status	In progress.
Target	2014
Activity	▪ Development in JavaScript API on hold for migration possibly to Silverlight in 2014.

Name	**Stop Based Scheduling Support**
Description	Transit is switching to stop based scheduling (from timepoint based scheduling) and transitioning to a different model for spatial representations of bus routing as well as a vendor product, Hastus GEO, for managing stop locations and bus itineraries. The transit GIS team will be critical in developing interfaces, applications and database support to make sure TNET is synchronized with the new environments and that HASTUS GEO functions properly with downstream systems.
Interdependencies	Dependent on the progress of the stop based scheduling project and HASTUS GEO implementation.
Status	In progress.
Target	2015
Activity	▪ Development of test interfaces, data provisioning and strategies for HASTUS GEO implementation.

Name	**Transit Viewer Application**
Description	DOT IT Transit GIS is modifying an application developed by Roads GIS for use as a viewer of transit GIS data. The application is a straightforward platform that will eventually be developed through user interaction into a replacement for the GIS Toolbox.
Interdependencies	
Status	In progress.
Target	2014
Activity	▪ Base application will be ready for users by May 2014

4.12.3 Hardware, Software, and Database Systems Changes

- All Transit Division ArcGIS 9.3 and 10.0 desktop client application users have been migrated to ArcGIS10.1 SP3. ArcSDE has been migrated to version 10 with SP3 for Oracle 11g clients.

- KCIT-DOT GIS continued its move to migrate the Transit Division's agency data maintenance layers to the SDE environment. Additional accounts and roles were created to facilitate best practice data organization. Schema changes have occurred on several levels, particularly those that are impacted by the enterprise COMMON_INTEREST layer project. Additional agency schema changes have occurred to support adverse weather reroutes, and to support a new asset management system. These changes are not reflected in enterprise data. This type of work will continue.

4.12.4 Staffing Changes

- None.

4.12.5 Other Changes

- A key change is the continuation of the implementation of the Department of Transportation IT reorganization strategy. The IT reorganization combined IT staff from various DOT divisions and consolidates them into one central group located at the department level. Service Level Agreements (SLA) will be crafted in the coming year by this new entity to identify the support for each division.

- The relationship with the KCGIS Center to provide on-call backup database services during KCIT-DOT GIS workgroup primary DBA vacations and sick leave continues. The past year has not seen use of this on-call assistance.

4.13 DOT – King County International Airport

4.13.1 Agency GIS Overview, Priorities, and Goals

- King County International Airport (KCIA) is operated as a division of King County's Transportation Department. KCIA is the 36th busiest airport in the United States and ranks 30th in cargo. It has approximately 300,000 annual aircraft operations (takeoffs and landings) and 450 based aircraft. The Airport supports commercial, corporate, cargo and military aviation, as well as general aviation and aviation manufacturing. KCIA is the largest corporate aircraft center in the Pacific Northwest. The mission of KCIA is to provide safe and continuous aviation services that support scheduled commercial, charter, and air cargo airlines, as well as general aviation and corporate operators as part of the national air transportation system, while fulfilling the needs of county and state businesses and residents for quality airport transportation services and facilities.

- In 2015 and 2016, the Airport is continuing to use the KCGIS Center's matrix services as its primary provider of GIS services. KCIA does not have a stand-alone GIS unit. A Business Analyst is on staff to perform GIS tasks on Airport's GIS related projects. The Business Analyst performs all GIS related functions and serves as the Division's liaison with KCGIS and all GIS related matter. This Analyst reports to the Airport Director.

- GIS is rapidly being implemented at numerous airports to meet future FAA data sharing requirements; applying robust and versatile technology in managing and maintaining the airport by providing a tool used to enhance administration, planning, property management, engineering, environmental, maintenance safety, operations and compliance, sound insulation, financial decision-making, and reducing costs for airports. The Airport wants to initiate an FAA compliant GIS effort using in-house GIS and/or Business Analyst, GIS consultants (i.e. KCGIS Center), Survey and/or Photogrammetric consultants to collect, validate, format and/or convert data, and develop metadata to comply with FAA's Advisory Circular (AC) Part 150/5300-16A, AC Part 150/5300-17B, and AC Part 150/5300-18B for eventual use in FAA's Electronic ALP (eALP), the Airport's GIS, and other data products or applications. In achieving efficiency, data integrity, data reliability, and business knowledge, the Airport will be using GIS to centralize and combine data into a single platform or user interface for simultaneous spatial data access, analysis, and management. Listed below are the business functions within the Division that use or plan to use GIS:

  o *Administration, Planning and Property Management* – The Airport will use GIS for analysis in plan development, environmental evaluations, program tracking and production of visual materials. The initial phase of GIS implementation may include surveying the Airport to establish the GIS base map or eALP per FAA guidelines and development of a Property Management System application.

  o *Engineering and Environmental Management* – This section provides and/or oversees engineering-related planning, environmental, design and construction management and assures the Airport operates in an environmentally and structurally safe and efficient manner. The Airport uses both CAD and GIS to maintain, map, and coordinate structural and environmental data, design, construction, and permitting documents. GIS will be used to manage, maintain, map, and generate reports on field collected storm water, soil, and sediment sample data. Overall, GIS will be used as a spatial database-driven central repository for storing and retrieving infrastructure data (i.e. facilities, utilities, pavement, construction, etc) and AutoCAD drawings.

  o *Maintenance* – Airport Maintenance maintains and repairs all airport facilities and airfield infrastructure such as runways, taxiways and ramps, utilities, and structures. The Airport uses an unsupported version of MAXIMO, a leading asset, maintenance and facility management system, to track preventive and corrective maintenance work orders. The Airport is working with KCDOT IT in evaluating asset management business workflow processes in determining acquisition and implementation of an appropriate new asset

management system to replace their current unsupported version of Maximo. This system may be integrated with the Airport's enterprise GIS to provide spatial information for the maintenance team to efficiently locate, track and perform facility, airside, and inventory work orders or functions. The integration of the two systems will be analyzed after the standard work order management functions of the asset management system are implemented.

o *Operations and Compliance* – This section assures that aircraft and their operators are safe while operating at KCIA including the coordination of emergency response planning for the Airport. This business function also includes Airport Rescue and Fire Fighting services (ARFF), and law enforcement, which is contracted from the King County Sheriff's Office. The Airport uses CAD and, in the future, GIS to identify, plan, manage, and track safety and security related items, including FAA Part 77 height restrictions, hazardous materials and emergency response information to ensure safety, Part 139 application and compliance with FAA's rules and regulations.

o *Noise Office and Sound Insulation Program* – The Airport's Sound Insulation Program (SIP) uses GIS to track and maintain program participant data. The KCGIS Center has developed and implemented The SIP GIS Database application and interactive map for maintaining the SIP participant data. It is the central repository, mapping and reporting application of all relevant SIP information consisting of data of every property within the SIP's defined program area or Noise Mitigation Boundaries (NMB). This information will describe current status and progress of the Sound Insulation Program.

4.13.2 Ongoing and New Projects

Name	**Property Management System Application**
Description	The Property Management System application will be used to manage all leasing activity and assist in facility-based costing.
Interdependencies	KCGIS Center.
Status	In Progress.
Target	Quarter 1 - 2015
Activity	▪ Completed 'Lease' module. ▪ Added 'T-Hangar', 'T-Hangar Inspection', 'T-Hangar Waitlist', 'Tie-Down', 'Derelict Aircraft', 'Insurance', 'Maintenance Responsibility', and 'Authentication' modules to the application. ▪ Edit and finish mapping, querying, and reporting modules of the application. ▪ Implement web-based editing application. ▪ Test web-based editing application. ▪ Debug/modification of application. ▪ Deploy web-based editing application. ▪ Application complete – maintenance mode.

Name	**Part 139 Application**
Description	Develop a desktop and tablet application for Part 139 data. This application includes the following modules: Dashboard and Regular Self-Inspections
Interdependencies	KCGIS Center
Status	To be started.
Target	2015 - 2016
Activity	▪ Define data requirements. ▪ Design and build database tables. ▪ Importing business data. ▪ Write stored procedures. ▪ Iterative process. ▪ Design web-based editing application – shell. ▪ Spatial data development. ▪ Implement web-based editing application. ▪ Test web-based editing application. ▪ Debug/modification of application. ▪ Deploy web-based editing application. ▪ Application complete – maintenance mode.

4.13.3 Hardware, Software, and Database Systems Changes

▪ The Airport joined and uses the central licenses through KCGIS Center on Orca for access to Esri software.

4.13.4 Staffing Changes

▪ None for 2015 t0 2016.

4.13.5 Other Changes

▪ None for 2015 to 2016.

4.14 King County Elections

4.14.1 Agency GIS Overview, Priorities, and Goals

- The King County Department of Elections is an executive branch department that has the following mission statement:

  o With integrity and a commitment to innovation, we provide all citizens the opportunity to participate in and protect the democratic process.

- The staff of the Election Department carries out the mission by operating under the following guiding principles:

  o Plan ahead and continuously improve our efficiency and our effectiveness;

  o Listen and learn from the public and each other to facilitate open and timely communication;

  o Educate the public and each other about election processes;

  o Dedicate ourselves to democracy by conducting fair and impartial elections;

  o Guide each other to fulfill our mission with excellence;

  o Encourage everyone's contribution for the success of our team.

- The GIS Supervisor reports to the Deputy Director of Elections for operations and maintenance of Election related work programs. The GIS Supervisor interfaces with the appropriate department staff for coordination of cross-departmental projects. Customer service for both internal and external clients is reviewed and approved by the GIS Supervisor in coordination with the Deputy Director. This is accomplished by coordinating special projects and requests with the KCGIS Center, to determine which agency should respond to the request.

- Elections will continue having representation at the GIS Technical Committee level and may be raising the issue of representation on the GIS Oversight Committee.

- The Elections Department also has two FTE GIS Specialist-Journey positions and two FTE GIS Specialist-Entry positions. One of the Entry positions is allocated at .8 GIS and .2 IT Services. All of these positions will receive job assignments and report to the GIS Supervisor. These analysts perform duty assignments supporting five basic business areas: political redistricting, election district boundary maintenance, voter registration, election support, and customer service. Duties and job responsibilities are shared between GIS staff, with the division of labor coordinated and assigned by the GIS Supervisor. Although the workload is distributed evenly between staff members, one GIS Analyst is primarily responsible for supporting the ongoing data maintenance needs and requests of the Voter Registration section, one GIS Analyst has the primary responsibility for data integration and maintenance of the district datasets, one GIS Analyst handles special data requests and all production related issues, and one GIS Analyst rectification of voter addresses. Staff will also be working on various GIS projects, providing data maintenance, integration, data QC, and election specific application development.

- The services provided by KCE GIS staff include GIS data analysis, census demographics, cartographic production and map sales. These services are also provided to the general public and clients outside the county organizational structure. Ninety different map products are produced and maintained and are also available as PDFs on the Elections website. KCEGIS also has twenty datasets available on the King County Data Portal Site.

- The King County Elections GIS work unit has the primary GIS responsibility for the creation, integration and maintenance of geographic boundary data incorporated into the "District" theme of the King County Coordinated GIS (KCGIS) Program. The District data layer is utilized by many agencies within King County and it supports numerous county department business applications. KCEGIS staff supports Election Department division business programs by providing digital map

production services, data creation, integration, maintenance and analysis, internet based services of available map products, and Regional Voting Center (RVC) and Ballot Drop Off Location (BDOL) lookup applications. GIS is used in many aspects of the department's business functions including but not limited to:

- o *Political Redistricting/ Voting District Maintenance* – GIS analysts within the division are responsible for the implementation and integration of data resulting from Federal, State and local redistricting plans *(RCW 29.76A and 29.76)* and annual precinct maintenance *(RCW 29A.76.010, RCW 29A.76.030, and RCW 29a.76.040,).* To support this program, GIS tools applications and spatial data are used by Elections staff to analyze plans and implement district changes.

- o *Jurisdiction Boundaries* – In King County, the Director of Elections performs many of the business functions of the "County Auditor" (with exception to Recording & Licensing duties). Under State law, the "Auditor" is mandated to conduct primary, general and special elections for all political jurisdictions (including cities, towns, and minor taxing districts) within the county and to perform all duties required in order to carry out this function. *(RCW 29A.76.020).* In order to do this, the "Auditor" must maintain the latest accurate information describing the geographic boundaries of these jurisdictions, as well as the director, council, or commissioner districts within, and ensure that such information is kept current.

- o *Election Support* – Jurisdictions in King County can conduct as many as four elections per year. GIS staff, data, and tools are used to support the business of conducting elections. Candidate filing, jurisdiction flagging, ballot layout and design, petition qualification and verification, production of the Local Voters Pamphlet, all rely on spatial data and applications maintained and supported by KCEGIS staff.

- o *Voter Registration* – The Elections office processes approximately 800,000 voter registration transactions per year. The State law *(RCW* 29A.08.125*)* requires the Auditor's office to maintain a database containing names, address, major political districts, minor taxing districts (jurisdictions) and precinct information for every voter. KCEGIS staff maintains spatial data and support the applications crucial to this business function.

- o *Document Recording* – The King County Recorder's Office (Records) processes and records documents related to real estate transactions and collects excise tax and recording fees (REET) *(RCW 36.22.010).* The recording procedure relies on accurate up to date city jurisdiction information to process these transactions. KCEGIS data and staff provide support to this business application. Although no formal support or data sharing agreement exists, KCEGIS still supports the King County Recorder's Office with updated city annexation data and parcel ID numbers to support the REET process. As of this O&M submittal, no changes in the support are planned.

- o *Public Information* – Election GIS maps, data and applications are used to aid in the delivery of public information. District information is depicted using GIS for all the department map series products available hard copy or via the Internet. The "Find My District" application allows the public to establish their election voting districts within an interactive mapping application.

4.14.2 Ongoing and New Projects

Name	**Election Management System Operation and Maintenance**
Description	Elections GIS DIMS specific support, including district, precinct, precinct portion, street and voter address maintenance.

Interdependencies	Working with departmental divisions and vendor ES&S.
Status	In progress.
Target	Ongoing project
Activity	▪ Complete yearly precinct alterations for 2015-16. ▪ Perform minor taxing district boundary maintenance including annexations, transfers of territory, mergers, and dissolutions. ▪ Update voter registration database with new addresses. ▪ Petition validation ▪ Continue developing enhanced editing processes and procedures. ▪ Testing new DIMSNet versions.

Name	**Precinct Alteration Project**
Description	Prepare and implement an ordinance altering precincts for 2015-16 to accommodate city annexations, precinct balancing and election administrative maintenance.
Interdependencies	King County Council and political parties.
Status	To begin January 2015 and January 2016.
Target	Q2 2015 and Q2 2016.
Activity	▪ Analysis of over and under sized precincts, annexation areas and citizen input. ▪ Create the legislation package including maps of all precincts being altered. ▪ Implement the changes adopted by the council in the election management system. ▪ Integrate the changes and post all KCEGIS datasets. ▪ Produce new King County Council district, Legislative district and city maps with precinct detail. ▪ Create legislation to define King County District Court electoral districts.

Name	**Position Accuracy Improvements (PAI)**
Description	Realign Election district data to KC Assessor's PAI.
Interdependencies	Availability of staff resources, coordination with KC Assessor's Office.
Status	In progress.
Target	Ongoing project

Activity	- Coordinate with Assessor parcel updates. - QC geography. - Integrate changes and repost all KCEGIS's datasets.

Name	**Voter Geocoding and Address Rectification**
Description	Continue to geocode voter addresses and refine address databases by reporting inconsistencies to data stewards. Increase participation in county wide addressing work group. This will be the groundwork to explore the feasibility of using a GIS point file to replace the street segment file in the election management system.
Interdependencies	Availability of staff resources, addressing workgroup, cities, DPER, KCGIS, E911.
Status	Ongoing.
Target	Q4 2016
Activity	- Rectification of voter addresses with CASS and NCOA. - Boundary comparison, reconciliation and documentation. - Geocode voters based on a 3 tier address database. - Evaluate and research miscompares. - Report back to addressing authorities to resolve discrepancies.

Name	**Taxing District Boundary Review**
Description	Review of taxing district boundaries in coordination with KC Assessor's Office to resolve any discrepancies.
Interdependencies	Availability of staff resources, coordination with KC Assessor's Office; individual taxing districts.
Status	On hold.
Target	Q4 2016
Activity	- Coordinate with KCA to review district sets. - Compare KCA districts to Elections GIS districts. - Resolve any discrepancies. - Establish backup plans. - If there are discrepancies between DOA and Elections data that require immediate attention these will be reviewed regardless of the project status or timeline.

Name	**Split Parcel Inventory**
Description	Create a database of all parcels split by a taxing or election specific district.
Interdependencies	KC GIS Center and Assessments.
Status	In progress.
Target	Q4 2016.
Activity	▪ Query split parcels by DSTCODE, assign category and join assessor tables. ▪ Overlay address point, calculate percentage of split, and assign relative position to district boundary. ▪ Build map template for visual inventory.

Name	**Evaluation of New Election Management Systems**
Description	Evaluation of Election Management Systems with the possibility of implementing a new system before the 2016 presidential election.
Interdependencies	Departmental divisions and vendors
Status	In progress
Target	Q4 2015
Activity	▪ Request for Information (ROI) from vendors ▪ Site visits and presentations on system requirements from vendors. ▪ Evaluations, reference checks, site visits or conference calls with other counties doing business with the vendors ▪ Possible data conversion efforts ▪ Possible implementation and training on a new system.

Name	**Establishment of Seattle City Council Districts**
Description	City of Seattle will begin electing 7 of their 9 councilmembers by district in 2015. Precincts will need to be altered and conformed to these districts.
Interdependencies	Departmental divisions and City of Seattle
Status	In progress
Target	Q2 2015
Activity	▪ Precincts split by these new districts will need to be altered in the yearly precinct alteration process.

	▪ The districts will need to be established by 2015 candidate filing in May of 2015.
	▪ 8 new map products will be created, 1 composite map and 7 individual district maps with precinct detail.
	▪ Add new Seattle City Council Districts feature class to Districts map set in the Spatial Data Warehouse.

4.14.3 Hardware, Software, and Database Systems Changes

▪ There is a possibility of implementing a new election management system and rebuilding the relationships to our GIS scripting and applications.

4.14.4 Staffing Changes

▪ No changes.

4.14.5 Other Changes

▪ No changes.

4.15 King County Sheriff's Office

4.15.1 Agency GIS Overview, Priorities, and Goals

- Within the King County Sheriff's Office (KCSO), GIS services are provided by two groups: The Communications Section of the Technical Services Division, and The Research, Planning & Information Services Unit (RP&IS) of the Technical Services Division. Collectively, the GIS program vision, mission, and objectives are:

  Vision – To create a Geographic Information System (GIS) with advanced mapping capabilities to serve the citizens of King County, the King County Sheriff's Office and its contract cities.

  Mission – To work collaboratively with other King County departments and their GIS units to stay aware of GIS standards and to produce and provide data and applications that are as accurate as possible, consistent, accessible, affordable and comprehensive for both internal and external customers, while meeting the unique business needs of the King County Sheriff's Office.

  Objective – To demonstrate to staff and customers that GIS is a useful tool for a modern law enforcement agency, by delivering/providing tools/products that are powerful, flexible and relevant to the mission of the King County Sheriff's Office.

- The Communications Section of the Technical Services Division has one full-time GIS Specialist who is responsible for maintaining GIS Geofile response information including various district and jurisdiction boundaries, street and address changes, business types and other location-specific information. Time is also spent training and providing guidance to other personnel in use of GIS software, Geofile requirements and procedures, troubleshooting techniques, and maps. In addition, maps are designed and created for community education and planning purposes as time allows. These requests are primarily internal and occur sporadically.

- The Research, Planning & Information Services Unit (RP&IS) of the Technical Services Division currently has primary responsibility for providing GIS services for crime analysis related purposes. RP&IS is a multidisciplinary unit with crime analysis being the primary responsibility of the unit. This unit has no personnel with full-time GIS responsibilities. However, 4.0 RP&IS FTE's are proficient with ArcGIS 9.x (and recently upgraded to 10.x) and use it as the primary tool for creating and completing GIS related projects.

- The RP&IS supervisor currently coordinates all GIS activity for the RP&IS Unit, as well as performing a substantial amount of non-GIS related data and information technology business functions. A unique aspect of the RP&IS program is the assignment of GIS support responsibility for a designated geographic region of the county (a precinct or zone) to each of the four ArcGIS proficient staff. This simplifies communications between field staff (patrol), investigative staff (detectives) and the RP&IS crime analysts. The RP&IS supervisor has specific crime analysis support functions (primarily administrative, Metro Transit Police and major crimes/intelligence-related), performs periodic workload balancing and handles a number of specialized projects.

- Types of GIS services provided to end users include mapping, GIS analysis, data development, and limited/selected data maintenance.

- Research, Planning & Information Services/Crime Analysis Unit personnel utilize the STREETS file (tabular data) maintained by the Communications Center technical support staff as one source for geocoding address/crime-related data. Data is also mapped by precinct or city based on latitude/longitude information collected through the CAD software. Due to the critical functions performed by the Sheriff's Office - notably E-911 dispatching - maintaining its own street data has become imperative to accurate and timely emergency response. In the future, another source of street/address data may be re-evaluated and configured to meet the needs of the Sheriff's Office. Until then, the STREETS file meets the minimum requirements of the current version of the CAD system.

- One challenge for the GIS program is obtaining server space to house the large orthophoto imagery files that would be useful in the CAD system map (known as Maverick Map). Another challenge is keeping up with changes to the street file used for 911 dispatching. However, the latter challenge also lends well to an opportunity for the Sheriff's Office: Increased collaboration and data sharing with other PSAPs, primarily Valley Communications and NORCOM. These regional communication agencies are maintaining their own GIS data, and since geographic service areas overlap in many instances, there is potential to share updates and insights that are useful to all agencies involved. As Next Generation 9-1-1 grows closer to being reality, having mutual and overlapping data amongst communication agencies will be increasingly important. A cross-agency dependency is upon the King County GIS Center for updated common place point files (such as schools and hospitals). Such point files are uploaded to the map that works in conjunction with CAD (Maverick Map). Along with other data layers specific to the Sheriff's Office, they serve as a visual reference for Communication Specialists and patrol officers as they take calls and follow up with appropriate action.

- Major strengths of the GIS program are that polygon boundary file updates reflecting new annexations are very timely, and the entire staff has a general working knowledge of GIS and its applications within the Sheriff's Office Communications Center. One major weakness is that the common data storage and management framework for ArcGIS, the geodatabase, is not currently utilized. Instead, data is maintained in a shapefile format for use by the CAD system. This makes sharing data with other agencies more cumbersome as the data must be transformed before it is exchanged, and some of the prime functionality of a geodatabase is lost.

4.15.2 Ongoing and New Projects

Name	**Sound Transit Jurisdictional Data Acquisition**
Description	The KCSO contracts with Sound Transit to provide police services to its customers. The heavy rail and bus service routes extend into Pierce County and Snohomish County, so there may be a need integrate Pierce and Snohomish GIS data into the 911-CAD system. This will be even more important when light rail expands beyond King County borders in the future.
Interdependencies	KCGIS Center for Pierce and Snohomish County data coordination.
Status	On hold.
Target	TBD.
Activity	▪ Identify point, line, and polygon data needed for Pierce and Snohomish County and determine where reliable and up-to-date versions can be obtained. ▪ Incorporate new information into CommandCAD and Maverick Map. ▪ On hold until new version of CommandCAD is implemented and new 3-county map display is the norm.

Name	**Maverick Map Improvements**
Description	Explore ways to improve the currency and completeness of data layers and attributes provided to Maverick Map.
Interdependencies	Possibly KCSO IT staff for interaction with the Communications Center Knowledge

	Base.
Status	On hold.
Target	TBD.
Activity	- Establish a ranked list of data layers and an update schedule based on importance and need. - Create a maintenance routine so data is consistently reliable and accurate. - On hold until new version of CommandCAD is implemented and "get from map" function is utilized.

4.15.3 Hardware, Software, and Database Systems Changes

- The Communications Center is currently using Tiburon CommandCAD Version 2.3. An upgrade to Version 2.8 is anticipated, but dependent on timelines determined by the vendor. Data is undergoing preparation for the upgrade and a test environment will need to be established before the upgrade is live. Version 2.8 will not require data conversion from shapefile to TI File, and will be able to geocode point addresses. It will still fall back on street address ranges if the address point cannot geocode.

4.15.4 Staffing Changes

- None planned.

4.15.5 Other Changes

- None planned.

4.16 Metropolitan King County Council

4.16.1 Agency GIS Overview, Priorities, and Goals

- The nine member Metropolitan King County Council is the policy determining body of the county and exercises all legislative powers authorized under the King County charter. These include, but are not limited to: the adoption and enactment of ordinances and motions, levying of taxes, appropriation of funds, establishment of compensation levels for county employees, and the organization of administrative offices and executive departments.

- GIS services for the County Council are provided at two levels, dependent upon the complexity of the GIS service needed. Simpler GIS services are provided to the Council by its central staff, a non-partisan group of professionals that support the council's legislative committees. The central staff uses GIS to support the council in its policymaking role by analyzing geographic data currently available through the King County GIS Center. This existing data is presented to the Council in the form of maps, graphics, data files, reports, and spatial analysis. Complex GIS services requiring the generation and analysis of new data or the creation of more detailed mapping are provided through the King County GIS Center on a reimbursement basis.

- The objective of using GIS capabilities at each level of complexity is to provide data and information that will assist council members in their roles as policymakers in a host of issue areas, including but not limited to: land use, transportation, public health and safety, human services, utilities, technology and the environment.

- The County Council does not have a stand-alone GIS unit, but uses a member of central committee staff as a GIS Coordinator to assist the central and other legislative staff in utilizing GIS. The Coordinator serves as a liaison between central staff and the broader GIS community, and is responsible for coordinating training, procuring data, routing requests, and enlisting the help of other departments on complex projects. The GIS Coordinator also serves as the Council representative to the KCGIS Technical Committee.

- The Council does not have responsibility for developing, maintaining, or enhancing spatial data or metadata, but utilizes data and information housed in the KCGIS Spatial Data Warehouse to create maps and conduct spatial analysis. The most frequently used data layers include, but are not limited to:
    - parcels,
    - concurrency and road mitigation payment system,
    - land use and zoning,
    - critical areas,
    - council district boundaries,
    - voting precincts,
    - city boundaries,
    - potential annexation areas,
    - street network and annotation,
    - parks, trails and open space,
    - natural resources lands (agriculture, mining and forestry),
    - hydrology,
    - urban growth area boundary,
    - aerial imagery, and
    - Assessor quarter-section maps.

- In mid-2008, the King County GIS Center completed a GIS needs assessment for the Council which concluded:
    - The Council's GIS technology platform is out of date. The rest of the county has since migrated to ArcGIS 10.x.

- ○ The Council is underutilizing GIS, both as a mapping and analysis tool. The central staff could be better utilizing GIS as a visual communication and analysis tool, and the council members would benefit by having more information at their disposal when making policy decisions. The council members' personal staff could be utilizing GIS or GIS applications to assist with constituent relations, and as a method of better understanding the geographic, demographic, and other characteristics that define each council district.

- ○ The Council contributes a significant amount of money each year to the overhead for the KCGIS Center, when the Council does not participate fully in GIS it does not reap the benefit of this investment, and in effect subsidizes the GIS activities of other departments.

- ▪ The Council will conduct periodic, on-going reviews of its implementation of the recommendations contained in the GIS Needs Assessment to determine both the progress towards implementation and the need for an updated needs assessment.

- ▪ Potential training needs for 2015 are initial courses in the latest version of ArcGIS for the GIS coordinator or any staff requesting or needing such training. Staff members from other legislative offices (such as the Auditor, Ombudsman, and Tax Adjustment) may utilize such training to help in their case analysis and management. The council pays for GIS training with resources from its general training fund.

4.16.2 Ongoing and New Projects

Name	**GIS Workshop**
Description	Workshop presented by KCGIS Center to inform and train council staff to maximize use of KCGIS systems, data, and staff resources.
Interdependencies	This workshop is facilitated by the KCGIS Center and is dependent on available time of KCGIS Center staff.
Status	In progress
Target	Summer 2015
Activity	▪ Coordinate workshop with KCGIS Center.

Name	**GIS Systems Training**
Description	Increase awareness of training opportunities for council staff interested in GIS mapping and data analysis.
Interdependencies	Training opportunities are typically offered through the GIS Center.
Status	On-going
Target	On-going
Activity	▪ Coordinate workshop with KCGIS Center.

4.16.3 Hardware, Software, and Database Systems Changes

- None planned at this time.

4.16.4 Staffing Changes

- None planned at this time.

4.16.5 Other Changes

- None planned at this time.

4.17 Office of Performance, Strategy and Budget

4.17.1 Agency GIS Overview, Priorities, and Goals
- No plan submitted at time of publication.

4.17.2 Ongoing and New Projects
- No plan submitted at time of publication.

4.17.3 Hardware, Software, and Database Systems Changes
- No plan submitted at time of publication.

4.17.4 Staffing Changes
- No plan submitted at time of publication.

4.17.5 Other Changes
- No plan submitted at time of publication.

4.18 Department of Community and Human Services

4.18.1 Agency GIS Overview, Priorities, and Goals

▪ Agency Background: The Department of Community and Human Services (DCHS) is one of nine Executive departments within King County, Washington. The mission of DCHS is: "To enhance the quality of life, protect rights, and promote the self-sufficiency of our region's diverse individuals, families, and communities." The current focus of the department is on five primary goals:

  o Provide effective prevention and intervention strategies for those most at-risk and most in need to prevent or reduce more acute illness, high-risk behaviors, incarceration and other emergency medical or crisis responses.

  o Provide job readiness, education and employment services to help vulnerable youth and adults increase independence and self-sufficiency and lead more meaningful and productive lives.

  o Develop and implement stronger prevention measures to avoid or prevent homelessness, and create or preserve supportive housing for those who are homeless or at risk of homelessness to achieve the goal of ending homelessness.

  o Continue to develop and provide services that reduce the growth of emergency medical and criminal justice system involvement and costs.

  o Assure quality public defense services.

▪ To support its mission and stated goals, the department administers a budget of approximately $370 million (2014) with funding not only from the County itself, but also from federal, state, city, foundation, and private sources. The department has more than 300 employees who support designated programs, organized into a number of distinct divisions:

  o Community Services Division (CSD)
  o Developmental Disabilities Division (DDD)
  o Mental Health, Chemical Abuse and Dependency Services Division (MHCADSD)
  o DCHS Administration

▪ Most of the divisions coordinate across organizational lines to support the department mission and goals described above. In addition, other groups off the formal DCHS organization chart coordinate their efforts with DCHS:

  o Advisory Council on Aging and Disability Services
  o Alcoholism and Substance Abuse Administration Board
  o Board for Developmental Disabilities
  o Community Organizing Program Advisory Board
  o Mental Health Advisory Board
  o Mental Illness and Drug Dependency Oversight Committee
  o Regional Human Services Levy Oversight Board
  o Veterans Citizen Levy Oversight Board
  o Veterans' Program Advisory Board
  o Women's Program Advisory Board

▪ DCHS also coordinates their efforts with a regional council on homelessness prevention, the Committee to End Homelessness in King County.

▪ GIS Program Organization: There is no designated DCHS GIS unit or program. DCHS provides a KCGIS Technical Committee representative. Every year, the DCHS GIS Coordinator surveys staff in each division to determine their GIS needs for the upcoming year. Within its Community Services Division, one employee has GIS training and uses a GIS license occasionally. A second employee is currently training to use the ARG GIS Online capabilities.

- GIS Services: The primary GIS service utilized by DCHS end-users is the production of maps and spatial analysis derived from KCGIS data and geographic data provided by DCHS. Maps are produced for community presentations to accompany funding requests, to clarify statistical data in a variety of plans and reports to regulatory agencies, and for department/division management. Spatial data is often used for environmental analysis required for housing development projects. It GIS provides services beyond mapping and assists staff with on-site training and the development of on–line tools for analysis of projects and services delivered through its contracting processes.

- GIS Program Challenge: The key challenge is a relatively low level of awareness on the part of many agency staff of the basics of GIS and of the potential usefulness of GIS technology for typical DCHS business activities. Each division has a modest budget for GIS mapping services and training.

- DCHS GIS Coordination within KCGIS: The department's coordination with KCGIS will be limited to continued participation on the KCGIS Technical Committee, use of KCGIS data and application resources, and coordination with KCGIS Center Client Services for production of maps.

4.18.2 Ongoing and New Projects

Name	**DCHS Divisions and Program Areas - Coordination with KCGIS Center Regarding ArcGIS Online – Providing Tools Available, Training, and Ultimate Use of the ArcGIS Online Function.**
Description	Coordination with GIS Service to establish ArcGIS Online mapping for pertinent Department staff and to overcome current barriers for its use. Ideal to provide mapping access features that are easy to use tools for creating and publishing maps, data, and applications to the Web to virtually anyone, anywhere within the Department. It will also enable non-GIS users to create their own maps and share them, including through social media channels. Current subscription allows as many as 3,000 users GIS functionality. This project will focus on sharing developed standards and best practices for content, look and feel, symbology, and publishing. The project should assist with access, permissions, groups, training, metadata, and other factors that influence presentations for DCHS work products through implementation of ArcGIS Online.
Interdependencies	None
Status	Not Started
Target	2015
Activity	- Host one or two forums for DCHS Divisions and Program Areas for knowledge sharing related to ArcGIS Online. - Provide training sessions. One for ArcGIS Online users only, one for users with access to ArcGIS desktop software.

Name	**HCD – HUD Census Map Updates for 2015-2016 (HIGH – Biannual)**
Description	HCD and its Community Development Block Grant (CDBG) program require census maps of areas throughout King County to determine project eligibility per HUD Program rules. There are over 35 HUD census data maps that need updated based on ACS and HUD generated formula. HUD is to provide updated data in July 2014

	that is to be used as the basis for these HUD formula census maps.
Interdependencies	Availability of updated data and budget from CDBG.
Status	On hold - until HUD formula Census data is available
Target	HCD updates will be needed in first half of 2015/2016. CDBG program requirements will vary.
Activity	▪ Acquire updated information from sources. ▪ Request map updates or GIS consulting services; and/or ▪ Assist Community Development Coordinator generate master template so she can complete the maps for HCD-CD planning and reporting purposes.

Name	**Maps for 2015-2019 Housing and Community Development Plan Update (MEDIUM – CARRYOVER)**
Description	The Housing and Community Development Program has a need for maps for its Five Year Consolidated Housing and Community Development Plan.
Interdependencies	Continued detailed planning linking services, programs, and strategies to geographic areas. Available location data for people served. Census and demographic data as made available by HUD.
Status	Not Started Yet
Target	2015
Activity	▪ Regional meetings identifying strategies, programs and coordinated services that will need to be mapped. There may be a desire to have these maps available on-line vs. printed based on the outcome of the various needs assessment identified in the outcome of the Consolidated Housing and Community Development Plan. ▪ Explore the possible approaches to addressing the need with HCD Affordable Planner.

Name	**DCHS Demographic Data Displays (MEDIUM – CARRYOVER)**
Description	DCHS has requested several different types of maps depicting locations of clients served and locations of service providers be produced. These maps would support a number of community and advisory board presentations throughout the year, as well as planning activities as needed for functional areas such as the Mental Illness and Drug Dependency services, the Veterans and Human Services Levy, and the Committee to End Homelessness. In addition, it can provide information for analyses focused on Equity and Social Justice.
Interdependencies	Availability of data from the divisions' current data bases.
Status	Pending.

Target	These maps will be requested at various times during calendar years 2015/2016.
Activity	▪ Identify types of maps desired and due date for each. ▪ Identify sources of data for the maps and extract data to transmit to GIS. ▪ Transmit data and map request to GIS.

Name	**MHCADSD – MIDD (MEDIUM – ONGOING)**
Description	The Mental Illness and Drug Dependency Action Plan (MIDD) is the defining program for this request. One or more maps will be needed to support different groupings of program strategies. Updates to MIDD maps produced in 2010 may also be requested.
Interdependencies	Continued detailed planning linking expenditures to services, programs, strategies, and to geographic areas. Available location data for people served.
Status	Map and data needs will be refined throughout the year.
Target	Ongoing.
Activity	▪ Determine the level of geographic detail to use, the program/strategy groupings, and the methodology for compiling and displaying expenditure data. ▪ Provide data as appropriate. ▪ Request maps from GIS. ▪ Determine any additional map requirements based on 2013 planning and implementation efforts.

Name	**HCD – Map Updates for 2015/2016 (MEDIUM – ONGOING)**
Description	HCD and its Community Development Block Grant (CDBG) program require an annual update to their HUD Action Plan (3rd quarter) and HUD CAPER Report 1st quarter) that maps services, housing and community development projects funded in King County. This includes annual maps depicting Housing Repair Program services.
Interdependencies	Availability of updated data and budget from HCD, HFP, CDBG.
Status	On -going
Target	HCD updates will be needed in first half of 2015/2016 (CAPER) and 3rd quarter (Draft Action Plan). CDBG program requirements will vary.
Activity	▪ Acquire updated information from sources. ▪ Request map updates or GIS consulting services.

Name	**MHCADSD – New Maps and Updates for MH (MEDIUM – ONGOING)**
Description	MHCADSD requires an annual update to three existing maps, and new maps. Updates: 1) Urban/Rural areas with outpatient mental health providers; 2) Outpatient mental health providers with client density by zip code; 3) Two maps that show urban/rural areas and outpatient mental health providers, with added layer to show the density by ZIP code of Medicaid enrollees. For all of these maps, the provider list needs to be updated to include <u>all</u> provider service sites, not just main/administrative site for each contracted and subcontracted provider.
Interdependencies	Availability of updated provider sites and Medicaid enrollment data from MHCADSD.
Status	Not Started
Target	End of first quarter 2013 for updates; new maps as defined throughout the year.
Activity	▪ Acquire updated information from sources. ▪ Request maps.

Name	**MHCADSD Chemical Dependency Updates (MEDIUM – ONGOING)**
Description	Update the four existing maps: 1) All CD treatment provider and prevention program locations; 2) All CD treatment providers and CSOs; 3) All CD treatment providers and community health clinics; 4) Youth CD treatment providers, prevention program locations and schools.
Interdependencies	Availability of updated provider site, clinic, schools and other data.
Status	Not Started
Target	First half of 2013.
Activity	▪ Acquire updated information from sources. ▪ Request maps.

4.18.3 Hardware, Software, and Database Systems Changes
▪ Enterprise licenses are available as needed.

4.18.4 Staffing Changes
▪ KCGIS Technical Committee - Kathy Tremper.

4.18.5 Other Changes
▪ None planned at this time.

5 Summary Information

5.1 Staffing

5.1.1 KCGIS Center

Working Title	Focus	Class	Status	% GIS
KCGIS Center Manager	Staff management and organization, program oversight and strategic planning	IT Enterprise Mgr. II	FTE	100
GIS Finance and Marketing Manager	Budget, financial control, marketing	IT Project Mgr. II	FTE	100
GIS Enterprise Services Manager / PRD and SWD GIS Program Manager	Contracts administration, external data acquisition / GIS program management for PRD and SWD	IT Supervisor I	FTE	100
Office Manager	Administrative and office services for KCGIS Center and KCIT-DNRP	Administrator II	FTE	50
GIS Data Coordinator	Data management and coordination	IT Project Mgr. II	FTE	100
GIS Application Developer	Web applications and matrix support to RSD	GIS Spec. – Master	FTE	85#
GIS Application Developer	Desktop applications, utilities, and matrix support to Airport	GIS Spec. – Master	FTE	75#
GIS Database Administrator	Database administration, SQL Server, ArcSDE	GIS Spec. – Senior	FTE	100
GIS Analyst	Cadastral data coordination	GIS Spec. – Journey	FTE	100
GIS Analyst	Raster data development and analysis	GIS Spec. – Senior	FTE	100
Client Services Manager	Client Services program management	IT Supervisor I	FTE	100
GIS Senior Cartographer	Publication cartography	GIS Spec. – Senior	FTE	95#
GIS Training Coordinator	GIS training services and Client Services project support	GIS Spec. – Journey	FTE	100
GIS Analyst / Trainer	Client Services project support, GIS training services, and matrix support to DPER	GIS Spec. – Journey	0.8 FTE	100
GIS Analyst	Client Services project support	GIS Spec. – Journey	FTE	100
GIS Analyst	Client Services project support and matrix support to PRD	GIS Spec. – Journey	FTE	75#
GIS Analyst	Client Services project support	GIS Spec. – Journey	FTE	100

Working Title	Focus	Class	Status	% GIS
GIS Application Developer	Web and desktop applications and matrix support to RSD and DPER	GIS Spec. – Master	FTE	55#
GIS Analyst	Matrix support to DPER and OPSB, Client Services project support	GIS Spec. – Master	FTE	25#
GIS Analyst	Matrix support to WTD	GIS Spec. – Senior	FTE	#
GIS Analyst	Matrix support to WTD	GIS Spec. – Senior	FTE	#
GIS Analyst	Matrix support to WTD	GIS Spec. – Senior	FTE	#
GIS Analyst	Matrix support to WTD	GIS Spec. – Journey	FTE	#
GIS Analyst	Matrix support to WLRD	GIS Spec. – Senior	FTE	#
GIS Analyst	Matrix support to WLRD	GIS Spec. – Senior	FTE	#
GIS Analyst	Matrix support to WLRD	GIS Spec. – Senior	FTE	#
GIS Analyst	Matrix support to PRD and SWD	GIS Spec. – Journey	FTE	#
GIS Analyst	Matrix support to PRD, SWD, and Airport	GIS Spec. – Senior	FTE	#

\# For matrixed and loan out positions, % GIS is allocated to each supported agency's staffing table

5.1.2   Department of Assessments

Working Title	Focus	Class	Status	% GIS
GIS Specialist	GIS	GIS Spec. – Senior	FTE	75
Mapping Unit Supervisor	Mapping and Abstract Section supervision	Mapping Supervisor	FTE	45
GIS Specialist	Cadastral maintenance and other department maintained layers	GIS Spec. – Journey	FTE	95
GIS Specialist	Cadastral maintenance and other department maintained layers	GIS Spec. – Journey	FTE	95
GIS Specialist	Cadastral maintenance and other department maintained layers	GIS Spec. – Journey	FTE	95
GIS Specialist	Cadastral maintenance	GIS Spec. – Entry	FTE	95
GIS Specialist	Cadastral maintenance	GIS Spec. – Entry	FTE	95
GIS Specialist	Cadastral maintenance	GIS Spec. – Entry	FTE	95
Various – Appraisers, programmers	Analysis, implementation and application development	Various	FTE	⊗

⊗ Difficult to quantify

5.1.3   Department of Permitting and Environmental Review

Working Title	Focus	Class	Status	% GIS
Lead GIS Analyst§	Task coordination, data development, data documentation, county wide GIS coordination, data analysis, map production, end user education, application design	GIS Spec. – Master	FTE	25#
GIS Analyst§	Application development	GIS Spec. – Master	FTE	15#
GIS Analyst§	Data development, map production	GIS Spec. – Journey	FTE	10#

§   Matrixed from KCGIS Center
#   For matrixed positions, % GIS is allocated to each supported agency's staffing table

5.1.4   DES – Emergency Management Division

Working Title	Focus	Class	Status	% GIS
E-911 PSAP Mapping Administrator	Support GIS mapping for the E-911 Program Office and 12 PSAPs	GIS Spec. – Senior	FTE	100
E-911 PSAP Mapping Analyst	Support the E-911 GIS Mapping Administrator, E-911 Office, and 12 PSAPs	GIS Spec. – Journey	FTE	100

5.1.5   DES –Facilities Management Division

- No dedicated GIS staff.

5.1.6   DNRP – Wastewater Treatment Division

Working Title	Focus	Class	Status	% GIS
GIS Analyst§	Combined Sewer Overflows program, operations and maintenance, Web applications, database development	GIS Spec. – Senior	FTE	100#
GIS Analyst§	Water Reuse program, Conveyance System Improvement projects, Biosolids	GIS Spec. – Senior	FTE	100#
GIS Analyst§	Conveyance System Improvements projects. Combined Sewer Overflows program, Web data/applications viewer	GIS Spec. – Senior	FTE	100#

Working Title	Focus	Class	Status	% GIS
GIS Analyst√	Decennial Flow Monitoring Project, Storm Drain System Management, Local Line Development	GIS Spec. – Journey	FTE	100#

§   Matrixed from KCGIS Center
#   For matrixed positions, % GIS is allocated to each supported agency's staffing table

5.1.7   DNRP – Water and Land Resources Division

Working Title	Focus	Class	Status	% GIS
GIS Analyst§	Image processing, landcover classification, geoprocessing applications, general WLR GIS analysis projects	GIS Spec. – Senior	FTE	100#
GIS Analyst§	ArcIMS (iMap), ArcGIS Server and JSAPI Web applications, ASP.NET Web applications, general WLR GIS analysis projects and relational databases	GIS Spec. – Senior	FTE	100#
GIS Analyst§	Forestry, agriculture, land ownership, noxious weeds, current use assessment, open space and general WLR GIS analysis projects	GIS Spec. – Senior	FTE	100#

§   Matrixed from KCGIS Center
#   For matrixed positions, % GIS is allocated to each agency's staffing table

5.1.8   DNRP – Parks and Recreation Division

Working Title	Focus	Class	Status	% GIS
GIS Analyst§	Parks and Recreation database maintenance, data analysis, map design and production, Web services, and application development	GIS Spec. – Senior	FTE	25#
GIS Analyst§	Parks and Recreation database maintenance, data analysis, map design and production	GIS Spec. – Journey	FTE	50#
GIS Analyst§	Parks and Recreation database maintenance, data analysis, map design and production, and application development	GIS Spec. – Journey	FTE	25#

§   Matrixed from KCGIS Center
#   For matrixed positions, % GIS is allocated to each supported agency's staffing table

5.1.9   DNRP – Solid Waste Division

Working Title	Focus	Class	Status	% GIS
GIS Analyst§	Solid Waste database maintenance, data analysis, map design and production, Web services, and application development	GIS Spec. – Senior	FTE	50#
GIS Analyst§	Solid Waste database maintenance, data analysis, and map design and production	GIS Spec. – Journey	FTE	50#

§   Matrixed from KCGIS Center
#   For matrixed positions, % GIS is proportioned to each affected agency's staffing table

5.1.10   Department of Public Health

Working Title	Focus	Class	Status	% GIS
EMS Program Manager	Data analysis, project management, map production	Project/Program Manager II	FTE	40
Epidemiologist	Data analysis, project management, map production	Epidemiologist II	FTE	30

5.1.11   DOT – Roads Services Division

Working Title	Focus	Class	Status	% GIS
Strategic Business and Operation Section (SBOS) Manager	Section management	Manager	FTE	5
Asset Management Project Manager (SBOS)	Asset and technical services management	Managing Engineer	FTE	10
GIS Programmer (KCIT-DOT-IT)*	Application development	GIS Spec. – Master	FTE	25#
GIS Analyst (KCIT-DOT-IT)*	Data modeling, ArcSDE, and analysis	GIS Spec. – Senior	FTE	75#
GIS Analyst (SBOS)	Map production and data development and analysis	GIS Spec. – Journey	FTE	100
GIS Analyst (SBOS)	Map production and data development and analysis	GIS Spec. – Journey	FTE	100
GIS Programmer§	Application development	GIS Spec. – Master	FTE	50#

*   Matrixed from KCIT-DOT-IT
§   Matrixed from KCGIS Center
#   For matrixed positions, % GIS is allocated to each supported agency's staffing table

5.1.12 DOT – Information Technology

Working Title	Focus	Class	Status	% GIS
KCIT-DOT GIS Manager	Team lead, operations coordination, KCIT-DOT liaison, training	IT Manager I	FTE	100
GIS Master Application Developer	System architecture, application development and coordination	App. Dev. – Master	FTE	100
GIS Master Application Developer	Application development and matrix support to Roads Services	App. Dev. – Master	FTE	75#
GIS Application Developer	Application development	GIS Spec. – Senior	FTE	100
GIS Analyst	Data maintenance, map production, data analysis, software installation	GIS Spec – Journey	FTE	100
GIS Analyst	Database administration	GIS Spec. – Senior	FTE	100
GIS Analyst	Data modeling and analyst and matrix support to Roads Services	GIS Spec. – Senior	FTE	25#

\#   For matrixed positions, % GIS is allocated to each supported agency's staffing table

5.1.13 DOT – King County International Airport

Working Title	Focus	Class	Status	% GIS
Business Analyst	Define and capture data requirements, data creation, data analysis, data maintenance, map production, and GIS coordination.	Project/Program Manager III	FTE	50
GIS Analyst§	Application Development	GIS Spec. – Master	FTE	25#
GIS Analyst§	Application Development	GIS Spec. – Senior	FTE	25#

§   Matrixed from KCGIS Center
\#   For matrixed positions, % GIS is allocated to each supported agency's staffing table

5.1.14 King County Elections

Working Title	Focus	Class	Status	% GIS
GIS Supervisor	Coordination of GIS and program management	IT Services Supervisor	FTE	50
GIS Analyst	Data development, data integration, data maintenance and GIS analysis	GIS Spec. – Journey	FTE	80

Working Title	Focus	Class	Status	% GIS
GIS Analyst	Data development, data integration, data maintenance, GIS analysis and map production	GIS Spec. – Journey	FTE	80
GIS Analyst	Data development, data maintenance, GIS analysis, and map production	GIS Spec. – Entry	FTE	80
GIS Analyst	Data development, data maintenance, GIS analysis, and map production	GIS Spec. – Entry	FTE	65

5.1.15 King County Sheriff's Office

Working Title	Focus	Class	Status	% GIS
RP&IS Supervisor	Research/planning, information/data systems planning and management, supervision, crime analysis	Research and Technology Supervisor	FTE	15
Crime Analyst	Crime analysis and mapping	Project/Program Manager II	FTE	15
Crime Analyst	Crime analysis and mapping	Project/Program Manager II	FTE	15
Crime Analyst	Crime analysis and mapping	Project/Program Manager II	FTE	15
GIS Specialist	CAD system support, data maintenance	GIS Spec. – Journey	FTE	90

5.1.16 Metropolitan King County Council

Working Title	Focus	Class	Status	% GIS
GIS Coordinator	Assist staff in utilizing GIS, liaison between Council and broader GIS community, coordinate training, procure needed data, route requests, enlist help of other departments or KCGIS Center as needed.	Legislative Analyst	FTE	5

5.1.17 Office of Performance, Strategy and Budget
- No plan submitted at time of publication.

5.1.18 Department of Community and Human Services

Working Title	Focus	Class	Status	% GIS
DCHS Coordinator	Department/division performance measures, as reflected in annual business plan, AIMs High, DCHS Annual Report, other communication and presentations. GIS role is limited to coordination with other division programs in the annual DCHS GIS O&M work plan	Functional Analyst III	FTE	1
GIS Technical User	DCHS representative on KCGIS Technical Committee and DCHS lead GIS technical user	Community Development Coordinator	FTE	20

5.2 Licensing

▪ Table 5.2 provides counts for Esri software licensing. It includes licenses held on the Enterprise License Manager (ELM), which are listed in the KCGIS Center and King Street Center (KSC) Training Facility columns. The licenses listed in the other columns are held on separate license managers for the exclusive use of those agencies. All Esri software is covered by the county's Enterprise License Agreement (ELA).

Esri Software Licensing (counts by agency)	KCGIS Center	Assessments	DES – EMD **	Public Health	DOT – Roads	DOT – IT	KCSO
ArcGIS for Desktop Basic (ArcView)	40	16	4	3	-	-	5
ArcGIS for Desktop Standard (ArcEditor)	10	-	2	-	-	-	-
ArcGIS for Desktop Advanced (ArcInfo)	56	9	1	-	-	-	-
ArcGIS – 3D Analyst	10	-	-	-	-	-	-
ArcGIS – Spatial Analyst	12	-	1	-	-	-	5
ArcGIS – Network Analyst	6	-	-	-	-	-	-
ArcGIS – Geostatistical Analyst	4	1	-	-	-	-	-
ArcGIS – Survey Analyst	-	-	-	-	-	-	-
ArcGIS – Tracking Analyst	2	-	-	-	-	-	-
ArcGIS – Image Analyst	-	-	-	-	-	-	-
ArcGIS – COGO	-	-	-	-	-	-	-
ArcGIS – Data Interoperability	-	-	-	-	-	-	-
ArcGIS – Publisher	2	-	1	-	-	-	-
Maplex for ArcGIS	-	-	-	-	-	-	-
Schematics for ArcGIS	2	-	-	-	-	-	-
ArcGIS – Server	7	-	2	-	1	1	-
ArcGIS – Engine Runtime	-	140	-	-	-	-	-
ArcPad	-	-	-	-	1	-	-
MapObjects – Developers Kits	-	-	-	-	-	1	-
MapObjects – Deployments	-	-	-	-	-	5	-

** Includes licenses held by E-911 Program Office and RCECC.

5.3 GIS Data

5.3.1 Enterprise Vector and Tabular Data

- Table 5.3.1 contains listings of vector and tabular data stored in the King County Spatial Data Warehouse (SDW). It is sorted on the Steward Agency column to mirror the order of Section 4. The Data Portal column indicates availability for download of the data object on the KCGIS Data Portal (www5.kingcounty.gov/gisdataportal/).

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S010B01001	2008-12 ACS: SEX BY AGE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S010B01001_AREA_SEXBYAGE	2010 Tracts joined to 2008-12 ACS table: SEX BY AGE	None planned	Vector	KCGIS Center	No
ACS_S011B01002	2008-12 ACS: MEDIAN AGE BY SEX (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S011B01002_AREA_MEDIANAGEBYSEX	2010 Tracts joined to 2008-12 ACS table: MEDIAN AGE BY SEX	None planned	Vector	KCGIS Center	No
ACS_S012B02001	2008-12 ACS: RACE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S012B02001_AREA_RACE	2010 Tracts joined to 2008-12 ACS table: RACE	None planned	Vector	KCGIS Center	No
ACS_S013B03002	2008-12 ACS: HISPANIC OR LATINO ORIGIN BY RACE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S013B03002_AREA_HISPANICBYRACE	2010 Tracts joined to 2008-12 ACS table: HISPANIC OR LATINO ORIGIN BY RACE	None planned	Vector	KCGIS Center	No
ACS_S015B04003	2008-12 ACS: TOTAL ANCESTRY REPORTED (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S015B04003_AREA_TOTALANCESTRY	2010 Tracts joined to 2008-12 ACS table: TOTAL ANCESTRY REPORTED	None planned	Vector	KCGIS Center	No
ACS_S017B05001	2008-12 ACS: CITIZENSHIP STATUS IN THE UNITED STATES (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S017B05001_AREA_CITIZENSHIPSTATUS	2010 Tracts joined to 2008-12 ACS table: CITIZENSHIP STATUS IN THE UNITED STATES	None planned	Vector	KCGIS Center	No
ACS_S017B05002	2008-12 ACS: PLACE OF BIRTH BY CITIZENSHIP STATUS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S017B05002_AREA_BIRTHPLACE	2010 Tracts joined to 2008-12 ACS table: PLACE OF BIRTH BY CITIZENSHIP STATUS	None planned	Vector	KCGIS Center	No
ACS_S018B05005	2008-12 ACS: YEAR OF ENTRY BY NATIVITY AND CITIZENSHIP STATUS IN THE UNITED STATES (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S018B05005_AREA_YRENTRYCITIZENSHIP	2010 Tracts joined to 2008-12 ACS table: YEAR OF ENTRY BY NATIVITY AND CITIZENSHIP STATUS IN THE UNITED	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	STATES				
ACS_S018B05006	2008-12 ACS: PLACE OF BIRTH FOR THE FOREIGN-BORN POPULATION IN THE UNITED STATES (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S018B05006_AREA_BIRTHPLACEFOREIGNBORN	2010 Tracts joined to 2008-12 ACS table: PLACE OF BIRTH FOR THE FOREIGN-BORN POPULATION IN THE UNITED STATES	None planned	Vector	KCGIS Center	No
ACS_S019B05008	2008-12 ACS: SEX BY PLACE OF BIRTH BY YEAR OF ENTRY FOR THE FOREIGN-BORN POPULATION (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S019B05008_AREA_SEXBIRTHPLACEYRENTRY	2010 Tracts joined to 2008-12 ACS table: SEX BY PLACE OF BIRTH BY YEAR OF ENTRY FOR THE FOREIGN-BORN POPULATION	None planned	Vector	KCGIS Center	No
ACS_S020B06001	2008-12 ACS: PLACE OF BIRTH BY AGE IN THE UNITED STATES (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S020B06001_AREA_AGEBIRTHPLACEUS	2010 Tracts joined to 2008-12 ACS table: PLACE OF BIRTH BY AGE IN THE UNITED STATES	None planned	Vector	KCGIS Center	No
ACS_S022B07003	2008-12 ACS: GEOGRAPHICAL MOBILITY IN THE PAST YEAR BY SEX FOR CURRENT RESIDENCE IN THE UNITED STATES (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S022B07003_AREA_SEXGEOGRAPHICMOBILITY	2010 Tracts joined to 2008-12 ACS table: GEOGRAPHICAL MOBILITY IN THE PAST YEAR BY SEX FOR CURRENT RESIDENCE IN THE UNITED STATES	None planned	Vector	KCGIS Center	No
ACS_S024B07204	2008-12 ACS: GEOGRAPHICAL MOBILITY IN THE PAST YEAR FOR CURRENT RESIDENCE--STATE; COUNTY AND PLACE LEVEL IN THE UNITED STATES (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S024B07204_AREA_GEOGRAPHICMOBILITY	2010 Tracts joined to 2008-12 ACS table: GEOGRAPHICAL MOBILITY IN THE PAST YEAR FOR CURRENT RESIDENCE--STATE; COUNTY AND PLACE LEVEL IN THE UNITED STATES	None planned	Vector	KCGIS Center	No
ACS_S025B08006	2008-12 ACS: SEX OF WORKERS BY MEANS OF TRANSPORTATION TO WORK (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S025B08006_AREA_SEXTRANSPORTWORK	2010 Tracts joined to 2008-12 ACS table: SEX OF WORKERS BY MEANS OF TRANSPORTATION TO WORK	None planned	Vector	KCGIS Center	No
ACS_S025B08007	2008-12 ACS: SEX OF WORKERS BY PLACE OF WORK--PLACE LEVEL (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S025B08007_AREA_SEXPLACEWORKSTCO	2010 Tracts joined to ACS table: SEX OF WORKERS BY PLACE OF WORK--STATE AND COUNTY LEVEL	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S025B08008	2008-12 ACS: SEX OF WORKERS BY PLACE OF WORK--PLACE LEVEL (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S025B08008_AREA_SEXPLACEWORKPL	2010 Tracts joined to 2008-12 ACS table: SEX OF WORKERS BY PLACE OF WORK--PLACE LEVEL	None planned	Vector	KCGIS Center	No
ACS_S026B08101	2008-12 ACS: MEANS OF TRANSPORTATION TO WORK BY AGE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S026B08101_AREA_AGETRANSPORTWORK	2010 Tracts joined to 2008-12 ACS table: MEANS OF TRANSPORTATION TO WORK BY AGE	None planned	Vector	KCGIS Center	No
ACS_S030B08201	2008-12 ACS: HOUSEHOLD SIZE BY VEHICLES AVAILABLE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S030B08201_AREA_HOUSEHOLDVEHICLES	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD SIZE BY VEHICLES AVAILABLE	None planned	Vector	KCGIS Center	No
ACS_S030B08202	2008-12 ACS: HOUSEHOLD SIZE BY NUMBER OF WORKERS IN HOUSEHOLD (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S030B08202_AREA_HOUSEHOLDWORKERS	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD SIZE BY NUMBER OF WORKERS IN HOUSEHOLD	None planned	Vector	KCGIS Center	No
ACS_S030B08301	2008-12 ACS: MEANS OF TRANSPORTATION TO WORK (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S030B08301_AREA_TRANSPORTATION	2010 Tracts joined to 2008-12 ACS table: MEANS OF TRANSPORTATION TO WORK	None planned	Vector	KCGIS Center	No
ACS_S030B08303	2008-12 ACS: TRAVEL TIME TO WORK (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S030B08303_AREA_TRAVELTIME	2010 Tracts joined to 2008-12 ACS table: TRAVEL TIME TO WORK	None planned	Vector	KCGIS Center	No
ACS_S031B09001	2008-12 ACS: POPULATION UNDER 18 YEARS BY AGE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S031B09001_AREA_POPUNDER18	2010 Tracts joined to 2008-12 ACS table: POPULATION UNDER 18 YEARS BY AGE	None planned	Vector	KCGIS Center	No
ACS_S031B09002	2008-12 ACS: OWN CHILDREN UNDER 18 YEARS BY FAMILY TYPE AND AGE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S031B09002_AREA_FAMILYOWNCHILDRENUNDER18	2010 Tracts joined to 2008-12 ACS table: OWN CHILDREN UNDER 18 YEARS BY FAMILY TYPE AND AGE	None planned	Vector	KCGIS Center	No
acs_s031b09018	2008-12 ACS: RELATIONSHIP TO HOUSEHOLDER FOR CHILDREN UNDER 18 YEARS IN HOUSEHOLDS	None planned	Table	KCGIS Center	Yes
ACS_S031B09018_AREA_RELATIONHOUSEHOLD	2010 Tracts joined to 2008-12 ACS table: RELATIONSHIP TO HOUSEHOLDER FOR CHILDREN UNDER 18 YEARS IN HOUSEHOLDS	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
acs_s031b09019	2008-12 ACS: HOUSEHOLD TYPE (INCLUDING LIVING ALONE) BY RELATIONSHIP	None planned	Table	KCGIS Center	Yes
ACS_S031B09019_AREA_RELATION HSEHLDTYPE	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD TYPE (INCLUDING LIVING ALONE) BY RELATIONSHIP	None planned	Vector	KCGIS Center	No
acs_s031b09020	2008-12 ACS: RELATIONSHIP BY HOUSEHOLD TYPE (INCLUDING LIVING ALONE) FOR THE POPULATION 65 YEARS AND OVER	None planned	Table	KCGIS Center	Yes
ACS_S031B09020_AREA_RELHSDTY PEOVR65	2010 Tracts joined to 2008-12 ACS table: RELATIONSHIP BY HOUSEHOLD TYPE (INCLUDING LIVING ALONE) FOR THE POPULATION 65 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S033B11001	2008-12 ACS: HOUSEHOLD TYPE (INCLUDING LIVING ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S033B11001_AREA_HOUSEHO LDTYPE	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD TYPE (INCLUDING LIVING ALONE)	None planned	Vector	KCGIS Center	No
ACS_S033B11012	2008-12 ACS: HOUSEHOLD TYPE BY TENURE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S033B11012_AREA_HOUSEHO LDTYPETENURE	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD TYPE BY TENURE	None planned	Vector	KCGIS Center	No
ACS_S035B12001	2008-12 ACS: SEX BY MARITAL STATUS FOR THE POPULATION 15 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S035B12001_AREA_SEXMARIT ALSTATUS	2010 Tracts joined to 2008-12 ACS table: SEX BY MARITAL STATUS FOR THE POPULATION 15 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S038B14001	2008-12 ACS: SCHOOL ENROLLMENT BY LEVEL OF SCHOOL FOR THE POPULATION 3 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S038B14001_AREA_SCHOOLE NROLLMENT	2010 Tracts joined to 2008-12 ACS table: SCHOOL ENROLLMENT BY LEVEL OF SCHOOL FOR THE POPULATION 3 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S040B15002	2008-12 ACS: SEX BY EDUCATIONAL ATTAINMENT FOR THE POPULATION 25 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S040B15002_AREA_SEXEDUC ATIONALATTAINMENT	2010 Tracts joined to 2008-12 ACS table: SEX BY EDUCATIONAL ATTAINMENT FOR THE POPULATION 25 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S041B16001	2008-12 ACS: LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S041B16001_AREA_LANGUAG EATHOME	2010 Tracts joined to 2008-12 ACS table: LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S042B16002	2008-12 ACS: "HOUSEHOLD LANGUAGE BY HOUSEHOLDS IN WHICH NO ONE 14 AND OVER SPEAKS ENGLISH ONLY OR SPEAKS A LANGUAGE OTHER THAN ENGLISH AT HOME AND SPEAKS ENGLISH ""VERY WELL""" (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S042B16002_AREA_HOUSEHOLDLANGUAGE	2010 Tracts joined to 2008-12 ACS table: "HOUSEHOLD LANGUAGE BY HOUSEHOLDS IN WHICH NO ONE 14 AND OVER SPEAKS ENGLISH ONLY OR SPEAKS A LANGUAGE OTHER THAN ENGLISH AT HOME AND SPEAKS ENGLISH ""VERY WELL"""	None planned	Vector	KCGIS Center	No
ACS_S042B16005	2008-12 ACS: NATIVITY BY LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S042B16005_AREA_NATIVITYBYLANGUAGE	2010 Tracts joined to 2008-12 ACS table: NATIVITY BY LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S044B17001	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S044B17001_AREA_POVERTYSTATUS	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE	None planned	Vector	KCGIS Center	No
ACS_S044B17001A	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (WHITE ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S044B17001A_AREA_POVERTY_SEX_AGE_WHITE	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (WHITE ALONE)	None planned	Vector	KCGIS Center	No
ACS_S044B17001B	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (BLACK OR AFRICAN AMERICAN ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S044B17001B_AREA_POVERTY_SEX_AGE_BLACK	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (BLACK OR AFRICAN AMERICAN ALONE)	None planned	Vector	KCGIS Center	No
ACS_S044B17001C	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S044B17001C_AREA_POVERTY_SEX_AGE_AMERIND	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	None planned	Vector	KCGIS Center	No
ACS_S045B17001D	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	(ASIAN ALONE) (Based on 2010 Census Tracts)				
ACS_S045B17001D_AREA_POVERTY_SEX_AGE_ASIAN	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (ASIAN ALONE)	None planned	Vector	KCGIS Center	No
ACS_S045B17001E	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S045B17001E_AREA_POVERTY_SEX_AGE_HAWAIIANPI	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)	None planned	Vector	KCGIS Center	No
ACS_S045B17001F	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (SOME OTHER RACE ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S045B17001F_AREA_POVERTY_SEX_AGE_OTHERRACE	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (SOME OTHER RACE ALONE)	None planned	Vector	KCGIS Center	No
ACS_S045B17001G	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (TWO OR MORE RACES) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S045B17001G_AREA_POVERTY_SEX_AGE_2RACES	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (TWO OR MORE RACES)	None planned	Vector	KCGIS Center	No
ACS_S046B17001H	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (WHITE ALONE; NOT HISPANIC OR LATINO) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S046B17001H_AREA_POVERTY_SEX_AGE_WHITENOTHISPANIC	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (WHITE ALONE; NOT HISPANIC OR LATINO)	None planned	Vector	KCGIS Center	No
ACS_S046B17001I	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (HISPANIC OR LATINO) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S046B17001I_AREA_POVERTY_SEX_AGE_HISPANIC	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (HISPANIC OR LATINO)	None planned	Vector	KCGIS Center	No
ACS_S046C17002	2008-12 ACS: RATIO OF INCOME TO POVERTY LEVEL IN THE PAST 12 MONTHS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S046C17002_AREA_RATIOINCOMEPOVERTY	2010 Tracts joined to 2008-12 ACS table: RATIO OF INCOME TO POVERTY LEVEL IN THE PAST 12 MONTHS	None planned	Vector	KCGIS Center	No
ACS_S047B17010	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS OF FAMILIES BY	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	FAMILY TYPE BY PRESENCE OF RELATED CHILDREN UNDER 18 YEARS BY AGE OF RELATED CHILDREN (Based on 2010 Census Tracts)				
ACS_S047B17010_AREA_POVERTYF AMILY	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS OF FAMILIES BY FAMILY TYPE BY PRESENCE OF RELATED CHILDREN UNDER 18 YEARS BY AGE OF RELATED CHILDREN	None planned	Vector	KCGIS Center	No
ACS_S050B17020A	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (WHITE ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020A_AREA_POVERT YAGEWHITE	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (WHITE ALONE)	None planned	Vector	KCGIS Center	No
ACS_S050B17020B	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (BLACK OR AFRICAN AMERICAN ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020B_AREA_POVERT YAGEBLACK	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (BLACK OR AFRICAN AMERICAN ALONE)	None planned	Vector	KCGIS Center	No
ACS_S050B17020C	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020C_AREA_POVERT YAGEAMERIND	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	None planned	Vector	KCGIS Center	No
ACS_S050B17020D	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (ASIAN ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020D_AREA_POVERT YAGEASIAN	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (ASIAN ALONE)	None planned	Vector	KCGIS Center	No
ACS_S050B17020E	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020E_AREA_POVERT YAGEHAWAIIANPI	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)	None planned	Vector	KCGIS Center	No
ACS_S050B17020F	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (SOME OTHER RACE ALONE) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020F_AREA_POVERTY AGEOTHERRACES	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (SOME OTHER RACE ALONE)	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S050B17020G	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (TWO OR MORE RACES) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S050B17020G_AREA_POVERTYAGE2RACES	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (TWO OR MORE RACES)	None planned	Vector	KCGIS Center	No
ACS_S051B17020H	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (WHITE ALONE; NOT HISPANIC OR LATINO) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S051B17020H_AREA_POVERTYAGEWHITENOTHISPANIC	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (WHITE ALONE; NOT HISPANIC OR LATINO)	None planned	Vector	KCGIS Center	No
ACS_S051B17020I	2008-12 ACS: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (HISPANIC OR LATINO) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S051B17020I_AREA_POVERTYAGEHISPANIC	2010 Tracts joined to 2008-12 ACS table: POVERTY STATUS IN THE PAST 12 MONTHS BY AGE (HISPANIC OR LATINO)	None planned	Vector	KCGIS Center	No
ACS_S052B17024	2008-12 ACS: AGE BY RATIO OF INCOME TO POVERTY LEVEL IN THE PAST 12 MONTHS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S052B17024_AREA_AGERATIOINCOMETOPOVERTY	2010 Tracts joined to 2008-12 ACS table: AGE BY RATIO OF INCOME TO POVERTY LEVEL IN THE PAST 12 MONTHS	None planned	Vector	KCGIS Center	No
ACS_S053B19001	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001_AREA_HOUSEHOLDINCOME	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S053B19001A	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001A_AREA_HOUSEHOLDINCOMEWHITE	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001B	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (BLACK OR AFRICAN AMERICAN ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S053B19001B_AREA_HOUSEHOLDINCOMEBLACK	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (BLACK OR AFRICAN AMERICAN ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001C	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (AMERICAN INDIAN AND ALASKA NATIVE ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001C_AREA_HOUSEHOLDINCOMEAMERIND	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (AMERICAN INDIAN AND ALASKA NATIVE ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001D	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (ASIAN ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001D_AREA_HOUSEHOLDINCOMEASIAN	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (ASIAN ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001E	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001E_AREA_HOUSEHOLDINCOMEHAWAIIANPI	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001F	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (SOME OTHER RACE ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001F_AREA_HOUSEHOLDINCOMEOTHERRACE	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (SOME OTHER RACE ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001G	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (TWO OR MORE RACES HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001G_AREA_HOUSEH	2010 Tracts joined to 2008-12 ACS table:	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
OLDINCOME2RACES	HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (TWO OR MORE RACES HOUSEHOLDER)				
ACS_S053B19001H	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE; NOT HISPANIC OR LATINO HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001H_AREA_HOUSEHOLDINCOMEWHITENOTHISPANIC	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE; NOT HISPANIC OR LATINO HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19001I	2008-12 ACS: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (HISPANIC OR LATINO HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19001I_AREA_HOUSEHOLDINCOMEHISPANIC	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (HISPANIC OR LATINO HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S053B19013	2008-12 ACS: MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19013_AREA_MEDIANHOUSEHOLDINCOME	2010 Tracts joined to 2008-12 ACS table: MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S053B19019	2008-12 ACS: MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) BY HOUSEHOLD SIZE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S053B19019_AREA_MEDIANHOUSEHOLDINCOMEBYSIZE	2010 Tracts joined to 2008-12 ACS table: MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) BY HOUSEHOLD SIZE	None planned	Vector	KCGIS Center	No
ACS_S058B19101	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101_AREA_FAMILYINCOME	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S058B19101A	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S058B19101A_AREA_FAMILYIN COMEWHITE	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101B	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (BLACK OR AFRICAN AMERICAN ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101B_AREA_FAMILYIN COMEBLACK	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (BLACK OR AFRICAN AMERICAN ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101C	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (AMERICAN INDIAN AND ALASKA NATIVE ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101C_AREA_FAMILYIN COMEAMERIND	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (AMERICAN INDIAN AND ALASKA NATIVE ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101D	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (ASIAN ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101D_AREA_FAMILYIN COMEASIAN	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (ASIAN ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101E	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101E_AREA_FAMILYIN COMEHAWAIIANPI	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101F	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (SOME OTHER RACE ALONE HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101F_AREA_FAMILYIN COMEOTHERRACE	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (SOME OTHER RACE ALONE HOUSEHOLDER)				
ACS_S058B19101G	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (TWO OR MORE RACES HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101G_AREA_FAMILYINCOME2RACES	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (TWO OR MORE RACES HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101H	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE; NOT HISPANIC OR LATINO HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101H_AREA_FAMILYINCOMEWHITENOTHISPANIC	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE; NOT HISPANIC OR LATINO HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19101I	2008-12 ACS: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (HISPANIC OR LATINO HOUSEHOLDER) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19101I_AREA_FAMILYINCOMEHISPANIC	2010 Tracts joined to 2008-12 ACS table: FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (HISPANIC OR LATINO HOUSEHOLDER)	None planned	Vector	KCGIS Center	No
ACS_S058B19113	2008-12 ACS: MEDIAN FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S058B19113_AREA_MEDIANFAMILYINCOME	2010 Tracts joined to 2008-12 ACS table: MEDIAN FAMILY INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S059B19301	2008-12 ACS: PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S059B19301_AREA_PERCAPITAINCOME	2010 Tracts joined to 2008-12 ACS table: PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2010 INFLATION-ADJUSTED DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S067B21001	2008-12 ACS: SEX BY AGE BY VETERAN STATUS FOR THE CIVILIAN POPULATION 18 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S067B21001_AREA_SEXAGEVETSTATUS	2010 Tracts joined to 2008-12 ACS table: SEX BY AGE BY VETERAN STATUS FOR	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	THE CIVILIAN POPULATION 18 YEARS AND OVER				
ACS_S072C24010	2008-12 ACS: SEX BY OCCUPATION FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S072C24010_AREA_SEXOCCUPATION	2010 Tracts joined to 2008-12 ACS table: SEX BY OCCUPATION FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S074C24030	2008-12 ACS: SEX BY INDUSTRY FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S074C24030_AREA_SEXBYINDUSTRY	2010 Tracts joined to 2008-12 ACS table: SEX BY INDUSTRY FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER	None planned	Vector	KCGIS Center	No
ACS_S095B25001	2008-12 ACS: HOUSING UNITS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S095B25001_AREA_HOUSINGUNITS	2010 Tracts joined to 2008-12 ACS table: HOUSING UNITS	None planned	Vector	KCGIS Center	No
ACS_S095B25002	2008-12 ACS: OCCUPANCY STATUS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S095B25002_AREA_OCCUPANCYSTATUS	2010 Tracts joined to 2008-12 ACS table: OCCUPANCY STATUS	None planned	Vector	KCGIS Center	No
ACS_S095B25003	2008-12 ACS: TENURE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S095B25003_AREA_TENURE	2010 Tracts joined to 2008-12 ACS table: TENURE	None planned	Vector	KCGIS Center	No
ACS_S095B25004	2008-12 ACS: VACANCY STATUS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S095B25004_AREA_VACANCYSTATUS	2010 Tracts joined to 2008-12 ACS table: VACANCY STATUS	None planned	Vector	KCGIS Center	No
ACS_S095B25007	2008-12 ACS: TENURE BY AGE OF HOUSEHOLDER (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S095B25007_AREA_TENUREAGEHOUSEHOLDER	2010 Tracts joined to 2008-12 ACS table: TENURE BY AGE OF HOUSEHOLDER	None planned	Vector	KCGIS Center	No
ACS_S095B25009	2008-12 ACS: TENURE BY HOUSEHOLD SIZE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S095B25009_AREA_TENUREHOUSEHOLDSIZE	2010 Tracts joined to 2008-12 ACS table: TENURE BY HOUSEHOLD SIZE	None planned	Vector	KCGIS Center	No
ACS_S096B25019	2008-12 ACS: AGGREGATE NUMBER OF ROOMS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S096B25019_AREA_AGGREGATENUMBERROOMS	2010 Tracts joined to 2008-12 ACS table: AGGREGATE NUMBER OF ROOMS	None planned	Vector	KCGIS Center	No
ACS_S096B25024	2008-12 ACS: UNITS IN STRUCTURE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S096B25024_AREA_UNITSINSTRUCTURE	2010 Tracts joined to 2008-12 ACS table: UNITS IN STRUCTURE	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S096B25032	2008-12 ACS: TENURE BY UNITS IN STRUCTURE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S096B25032_AREA_TENUREU NITSSTRUCTURE	2010 Tracts joined to 2008-12 ACS table: TENURE BY UNITS IN STRUCTURE	None planned	Vector	KCGIS Center	No
ACS_S096B25033	2008-12 ACS: TOTAL POPULATION IN OCCUPIED HOUSING UNITS BY TENURE BY UNITS IN STRUCTURE (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S096B25033_AREA_TOTALPOP INHOUSEUNITSBYTENUREBYUNITS	2010 Tracts joined to 2008-12 ACS table: TOTAL POPULATION IN OCCUPIED HOUSING UNITS BY TENURE BY UNITS IN STRUCTURE	None planned	Vector	KCGIS Center	No
ACS_S097B25034	2008-12 ACS: YEAR STRUCTURE BUILT (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25034_AREA_YRSTRUC TUREBUILT	2010 Tracts joined to 2008-12 ACS table: YEAR STRUCTURE BUILT	None planned	Vector	KCGIS Center	No
ACS_S097B25035	2008-12 ACS: MEDIAN YEAR STRUCTURE BUILT (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25035_AREA_MEDIANYR STRUCTUREBUILT	2010 Tracts joined to 2008-12 ACS table: MEDIAN YEAR STRUCTURE BUILT	None planned	Vector	KCGIS Center	No
ACS_S097B25036	2008-12 ACS: TENURE BY YEAR STRUCTURE BUILT (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25036_AREA_TENUREY RSTRUCTUREBUILT	2010 Tracts joined to 2008-12 ACS table: TENURE BY YEAR STRUCTURE BUILT	None planned	Vector	KCGIS Center	No
ACS_S097B25056	2008-12 ACS: TENURE BY YEAR STRUCTURE BUILT (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25056_AREA_CONTRAC TRENT	2010 Tracts joined to 2008-12 ACS table: CONTRACT RENT	None planned	Vector	KCGIS Center	No
ACS_S097B25057	2008-12 ACS: LOWER CONTRACT RENT QUARTILE (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25057_AREA_LOWERCO NTRACTRENTQUARTILE	2010 Tracts joined to 2008-12 ACS table: LOWER CONTRACT RENT QUARTILE (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S097B25058	2008-12 ACS: MEDIAN CONTRACT RENT (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25058_AREA_MEDIANCO NTRACTRENT	2010 Tracts joined to 2008-12 ACS table: MEDIAN CONTRACT RENT (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S097B25059	2008-12 ACS: UPPER CONTRACT RENT QUARTILE (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S097B25059_AREA_UPPERCO NTRACTRENTQUARTILE	2010 Tracts joined to 2008-12 ACS table: UPPER CONTRACT RENT QUARTILE (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S098B25065	2008-12 ACS: AGGREGATE GROSS RENT (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ACS_S098B25065_AREA_AGGREGA TEGROSSRENT	2010 Tracts joined to 2008-12 ACS table: AGGREGATE GROSS RENT (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S098B25070	2008-12 ACS: GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S098B25070_AREA_GROSSRE NTPERCENT	2010 Tracts joined to 2008-12 ACS table: GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS	None planned	Vector	KCGIS Center	No
ACS_S098B25071	2008-12 ACS: MEDIAN GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S098B25071_AREA_MEDIANGR OSSRENTPERCENT	2010 Tracts joined to 2008-12 ACS table: MEDIAN GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S098C25095	2008-12 ACS: HOUSEHOLD INCOME BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S098C25095_AREA_HOUSEHO LDINCOWNERCOSTPERCENT	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS	None planned	Vector	KCGIS Center	No
ACS_S099B25074	2008-12 ACS: HOUSEHOLD INCOME BY GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S099B25074_AREA_HOUSEHO LDINCOMEGROSSRENTPRECENTO FRENT	2010 Tracts joined to 2008-12 ACS table: HOUSEHOLD INCOME BY GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS	None planned	Vector	KCGIS Center	No
ACS_S099B25076	2008-12 ACS: LOWER VALUE QUARTILE (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S099B25076_AREA_LOWERVA LUEQUARTILE	2010 Tracts joined to 2008-12 ACS table: LOWER VALUE QUARTILE (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S099B25077	2008-12 ACS: MEDIAN VALUE (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S099B25077_AREA_MEDIANVA LUE	2010 Tracts joined to 2008-12 ACS table: MEDIAN VALUE (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S099B25078	2008-12 ACS: UPPER VALUE QUARTILE (DOLLARS) (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S099B25078_AREA_UPPERVAL UEQUARTILE	2010 Tracts joined to 2008-12 ACS table: UPPER VALUE QUARTILE (DOLLARS)	None planned	Vector	KCGIS Center	No
ACS_S099B25083	2008-12 ACS: MEDIAN VALUE	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	(DOLLARS) FOR MOBILE HOMES (Based on 2010 Census Tracts)				
ACS_S099B25083_AREA_MEDIANVALUEMOBILEHOMES	2010 Tracts joined to 2008-12 ACS table: MEDIAN VALUE (DOLLARS) FOR MOBILE HOMES	None planned	Vector	KCGIS Center	No
ACS_S099B25091	2008-12 ACS: MORTGAGE STATUS BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S099B25091_AREA_MORTGAGEOWNERCOSTSPERCENTHOUSEHOLDINCOME	2010 Tracts joined to 2008-12 ACS table: MORTGAGE STATUS BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS	None planned	Vector	KCGIS Center	No
ACS_S099B25094	2008-12 ACS: SELECTED MONTHLY OWNER COSTS (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S099B25094_AREA_SELECTEDMONTHLYOWNERCOSTS	2010 Tracts joined to 2008-12 ACS table: SELECTED MONTHLY OWNER COSTS	None planned	Vector	KCGIS Center	No
ACS_S105B26001	2008-12 ACS: GROUP QUARTERS POPULATION (Based on 2010 Census Tracts)	None planned	Table	KCGIS Center	Yes
ACS_S105B26001_AREA_GROUPQUARTERSPOPULATION	2010 Tracts joined to 2008-12 ACS table: GROUP QUARTERS POPULATION	None planned	Vector	KCGIS Center	No
ADDR_SITETYPE_LUT	Look Up (Decode) table for ADDRESS_POINT sitetype ITEM	As needed	Table	KCGIS Center	Yes
ADDRDDES	Unincorporated King County parcel addresses business table	As needed	Table	KCGIS Center	No
ADDRESS_POINT_ONE_ADDRESS_GCS	Address Locator for ADDRESS_POINT	Quarterly	Address Locator	KCGIS Center	No
ADDRKCA	Incorporated areas (cities) parcel address business table	As needed	Table	KCGIS Center	No
ADDRMERGE	Compilation (Merge) of KCA and DDES situs addresses	As needed	Table	KCGIS Center	No
ALLEXTENTS	Extent of Imagery and other Raster Datasets for King County	As needed	Vector	KCGIS Center	Yes
APTCOMPLEX_EXTR	Apartment complex Assessor extract table	Weekly	Table	KCGIS Center	No
APTCOMPLEX_REPORT_VIEW	Tabular view based on Assessor apartment complex property information	Weekly	Table	KCGIS Center	No
BLKGRP00	Census 2000 Block Groups	None planned	Vector	KCGIS Center	Yes
BLKGRP00_SHORE	Census 2000 Block Groups - Major WTRBDY Features Removed	None planned	Vector	KCGIS Center	Yes
BLKGRP00_SHORE_CENTER	2000 Census Block Group - Centers for water clipped features	None planned	Vector	KCGIS Center	Yes
BLKGRP10	2010 Census Blocks for King County - Conflated to Parcels	None planned	Vector	KCGIS Center	Yes
BLKGRP10_AREA_HISPANIC	2010 Census Block Groups with Hispanic/Latino (and NonHispanic/NonLatino) Data by Race - selected items	As needed	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
BLKGRP10_AREA_HISPANIC_18UP	2010 Census Block Groups with Hispanic/Latino (and NonHispanic/NonLatino) - 18 Years and Older - Population Counts by Race - selected items	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_HOUSING	2010 Census Block Group Housing Data	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_KEYVAL	2010 Census Block Groups with Housing and Population Totals	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_RACE_18UP	2010 Census Block Groups withl Race (18 years old and up) data - selected items	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_RACE_ALL	2010 Census Block Groups with All Race data - selected items	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1H42	2010 Census Block Groups: Housing Units - Housing Units (sel items)	None planned	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1H44	2010 Census Block Groups: Vacancy Status - Vacant Housing Units (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P01	2010 Census Block Groups: Total Population - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P03	2010 Census Block Groups: Race - Total Races Tallied (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P04	2010 Census Block Groups: Race - Population 18 Years and Over (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P05	2010 Census Block Groups: Households - Households (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P06	2010 Census Block Groups: Population Substituted - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P07	2010 Census Block Groups: Sex - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P08	2010 Census Block Groups: Sex - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_AREA_SF1P09	2010 Census Block Groups: Household Type - Households (sel items)	As needed	Vector	KCGIS Center	No
BLKGRP10_SHORE	2010 Census Block Groups for King County - Conflated to Parcels - Major Waterbodies Erased	None planned	Vector	KCGIS Center	Yes
BLKGRP10_SHORE_AREA_KEYVAL	2010 Census Block Groups-Water Erased-with Housing and Population Totals	As needed	Vector	KCGIS Center	No
BLKGRP10_SHORE_CENTER	2010 Census Block Groups for King County - Conflated to Parcels - Major Waterbodies Erased - Block Group Centers	None planned	Vector	KCGIS Center	Yes
BLKGRP10_SHORE_CENTER_POINT_KEYVAL	2010 Census Block Groups-Water Erased-with Housing and Population Totals	As needed	Vector	KCGIS Center	No
BLOCKGRP	1990 Block Groups	None planned	Vector	KCGIS Center	No
BLOCKNET	Census 1990 Blocks	None planned	Vector	KCGIS Center	No
BLOCKS00	Census 2000 Blocks	None planned	Vector	KCGIS Center	Yes
BLOCKS10	2010 Census Blocks for King County - Conflated to Parcels	None planned	Vector	KCGIS Center	Yes
BLOCKS10_AREA_HISPANIC	2010 Census Blocks with Hispanic/Latino	As needed	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	(and NonHispanic/NonLatino) Data by Race - selected items				
BLOCKS10_AREA_HISPANIC_18UP	2010 Census Blocks with Hispanic/Latino (and NonHispanic/NonLatino) - 18 Years and Older - Population Counts by Race - selected items	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_HOUSING	2010 Census Block Group Housing Data	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_KEYVAL	2010 Census Blocks with Housing and Population Totals	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_RACE_18UP	2010 Census Blocks with Race (18 years old and up) data - selected items	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_RACE_ALL	2010 Census Blocks with All Race data - selected items	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1H42	2010 Census Blocks: Housing Units - Housing Units (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1H44	2010 Census Blocks: Vacancy Status - Vacant Housing Units (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P01	2010 Census Blocks: Total Population - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P03	2010 Census Blocks: Race - Total Races Tallied (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P04	2010 Census Blocks: Race - Population 18 Years and Over (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P05	2010 Census Blocks: Households - Households (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P06	2010 Census Blocks: Population Substituted - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P07	2010 Census Blocks: Sex - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P08	2010 Census Blocks: Sex - Total Population (sel items)	As needed	Vector	KCGIS Center	No
BLOCKS10_AREA_SF1P09	2010 Census Blocks: Household Type - Households (sel items)	As needed	Vector	KCGIS Center	No
CADASTRALPARCEL_GRP	King County Cadastral; Parcel annotation and PLSS base	As needed	Group LYR File	KCGIS Center	No
CENTRALCENTRALTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - CentralCentral Township Cluster	None planned	Group LYR File	KCGIS Center	No
CENTRALEASTTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - CentralEast Township Cluster	None planned	Group LYR File	KCGIS Center	No
CENTRALWESTTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - CentralWest Township Cluster	None planned	Group LYR File	KCGIS Center	No
CIP	King County Capital Improvement Project Location	Weekly	Vector	KCGIS Center	No
CIP_AGENCYCONTACTS	King County Capital Improvement Program Agency Contact	As needed	Table	KCGIS Center	No
CIP_PUBLISHEDPROJECTJOURNALS	King County Capital Improvement Program Published Project Journals	Daily	Table	KCGIS Center	No
CIP_PUBLISHEDPROJECTS	King County Capital Improvement Project	Weekly	Table	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	Published Projects				
CIP_PUBLISHEDPROJECTSCHEDULES	King County Capital Improvement Program Published Project Schedule	Daily	Table	KCGIS Center	No
CITY_3CO	Incorporated Areas (cities) in Three County Area: Snohomish;Pierce;King	As needed	Vector	KCGIS Center	No
CITY_3CO_UNINC	Incorporated areas of King; Snohomish; and Pierce Counties; plus Unincorporated Areas	As needed	Vector	KCGIS Center	No
CITY_CODES_HEALTH	Decode table for jurisdiction abbreviations	As needed	Table	KCGIS Center	No
COMMBLDG_EXTR	Commercial Building Assessor extract table	Weekly	Table	KCGIS Center	No
COMMBLDG_REPORT_VIEW	Tabular view based on Assessor commercial building property information	Weekly	Table	KCGIS Center	No
COMMBLDGFEATURE_EXTR	Commercial Building Section Feature Assessor extract table	Weekly	Table	KCGIS Center	No
COMMBLDGSECTION_EXTR	Commercial Building Section Assessor extract table	Weekly	Table	KCGIS Center	No
COMMON_INTEREST	Common Points of Interest for King County	As needed	Vector	KCGIS Center	Yes
COMMON_INTEREST_POINT_SYMBOLS	Common Points of Interest - Symbolized	As needed	Vector	KCGIS Center	No
COMMUNITY_SERVICE_AREA	Community Service Areas in King County	As needed	Vector	KCGIS Center	Yes
COMPOSITE_LOCATOR_GCS	Composite Address Geocoding Service	Quarterly	Address Locator	KCGIS Center	No
CONDOCOMPLEX_EXTR	Condominum complex Assessor extract table	Weekly	Table	KCGIS Center	No
CONDOCOMPLEX_REPORT_VIEW	View based on Assessor condominium complex property information	Weekly	Table	KCGIS Center	No
CONDOUNIT_EXTR	Condominium Unit Assessor extract table	Weekly	Table	KCGIS Center	No
CONDOUNIT_REPORT_VIEW	Tabular view based on Assessor condominium unit property information	Weekly	Table	KCGIS Center	No
CONSOLIDATED_DEMOGRAPHICS_2000	2000 Consolidated Demographics	As needed	Vector	KCGIS Center	Yes
CONSOLIDATED_DEMOGRAPHICS_2010	2010 Consolidated Demographics	As needed	Vector	KCGIS Center	Yes
CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
CONTOUR010	Ten (10) foot-interval index contour isolines - Complete county extent	Irregular	Vector	KCGIS Center	Yes
CONTOUR020	Twenty (20) foot-interval index contour isolines - Complete county extent	Irregular	Vector	KCGIS Center	Yes
CONTOUR040	40 Foot Index Contours	As needed	Vector	KCGIS Center	Yes
CONTOUR050	50 Foot Index Contours	Irregular	Vector	KCGIS Center	Yes
CONTOUR100	100 Foot Index Contours	Irregular	Vector	KCGIS Center	Yes
CTRCLUSTERS	Public Land Survey System Townships - 3 county area	As needed	Table	KCGIS Center	No
CURRENTZONING	Current Zoning Codes	As needed	Table	KCGIS Center	No
DGM_SOURCE	Digital Ground Model Data Sources for	As needed	Vector	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	King County				
ELEV_TRANS_STRUCTURE	Elevated Transportation Structures	Annually	Vector	KCGIS Center	No
ENVIRONMENTALRESTRICTION_EXTR	Environmental Restrictions Assessor extract table	Weekly	Table	KCGIS Center	No
ESJ_ACS_ANALYSIS	Equity and Social Justice Analysis Table	As needed	Table	KCGIS Center	Yes
ESJ_ACS_ANALYSIS_AREA_BASE	Equity and Social Justice Analysis Table for Base Data	As needed	Vector	KCGIS Center	Yes
ESJ_ACS_AREA_AFRICANLANGUAGES	Equity and Social Justice African Language Speakers	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_CHINESESPEAKERS	Equity and Social Justice Chinese Speakers	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_ENGLISHNOTWELL	Equity and Social Justice Speak English Less Than Very Well	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_FOREIGNBORN	Equity and Social Justice Foreign Born	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_KOREANSPEAKERS	Equity and Social Justice Korean Speakers	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_MEDIANINCOME	Equity and Social Justice Median Income	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_POVERTY200PERCENT	Equity and Social 200 Percent of Federal Poverty	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_RUSSIANSPEAKERS	Equity and Social Justice Russian Speakers	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_SPANISHSPEAKERS	Equity and Social Justice Spanish Speakers	None planned	Vector	KCGIS Center	No
ESJ_ACS_AREA_VIETNAMESESPEAKERS	Equity and Social Justice Vietnamese Speakers	None planned	Vector	KCGIS Center	No
ESJ_PLSF_ANALYSIS	Equit and Social Justice PLSF Analysis Table	None planned	Table	KCGIS Center	Yes
ESJ_PLSF_ANALYSIS_AREA_RACE	Equity and Social Justice Analysis Table for Race Data	As needed	Vector	KCGIS Center	No
ESJ_PLSF_AREA_AINA	Equity and Social Justice American Indian Native Alaskan	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_ASIAN	Equity and Social Justice Asian	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_BAA	Equity and Social Justice Black African American	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_HISPANIC	Equity and Social Justice Hispanic Latino	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_MULTIPLERACES	Equity and Social Justice Multiple Races	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_NHPI	Equity and Social Justice Native Hawaiian Pacific Islander	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_POC	Equity and Social Justice People of Color	None planned	Vector	KCGIS Center	No
ESJ_PLSF_AREA_WHITE	Equity and Social Justice White	None planned	Vector	KCGIS Center	No
FAZ	1990 Forecast Analysis Zones	None planned	Vector	KCGIS Center	No
HOOVERS	Hoovers business list in King County	As needed	Table	KCGIS Center	No
HOOVERS_BUSINESS_LIST	Hoovers business list in King County	As needed	Table	KCGIS Center	No
HOOVERS_LOCATION	Hoovers location point	As needed	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
IDLINK_BLKGRP_PLACE	Relationship table between census BLKGRP and PLACE	None planned	Table	KCGIS Center	No
IDLINK_TRACTS_PLACE	Relationship table between census TRACTS and PLACE	None planned	Table	KCGIS Center	No
IDXP7500	IDXP7500 - 7500-ft Tiling Index for King County Raster Data	As needed	Vector	KCGIS Center	Yes
IDXPTRMBR	IDXPTRMBR - Township Tiling Index for King County Raster Data	As needed	Vector	KCGIS Center	Yes
IDXPTRMID	IDXPTRMID - MBR MidLineTiling Index for King County Raster Data	As needed	Vector	KCGIS Center	No
IDXPTRNEAT	IDXPTRNEAT - PLSS Township-RangeTiling Index for King County Raster Data	As needed	Vector	KCGIS Center	No
IDXPZONE	IDXPZONE - Zone Level Tiling Index for King County Raster Data	As needed	Vector	KCGIS Center	No
JURIS_KCADISTRICTNAME	City name code look-up table	As needed	Table	KCGIS Center	No
KCA1_PROPERTYTYPE_RPSALE	Decode Table for Values in item PROPERTYTYPE in table RPSALE_EXTR	None planned	Table	KCGIS Center	No
KCA102_PRESENTUSE_PARCEL	Decode Table for Values in item PRESENTUSE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA103_HBUASIFVACANT_PARCEL	Decode Table for Values in item HBUASIFVACANT in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA104_HBUASIMPROVED_PARCEL	Decode Table for Values in item HBUASIMPROVED in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA105_COMMONPROPERTY_PARCEL	Decode Table for Values in item COMMONPROPERTY in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA106_SHAPE_COMMBLDG	Decode Table for Values in item SHAPE in table COMMBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA108_HEATSYSTEM_RESBLDG	Decode Table for Values in item HEATSYSTEM in table RESBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA118_PREDOMINANTUSE_COMMBLDG	Decode Table for Values in item PREDOMINANTUSE in table COMMBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA118_SECTIONUSE_COMMBLDGSECTION	Decode Table for Values in item SECTIONUSE in table COMMBLDGSECTION_EXTR	None planned	Table	KCGIS Center	No
KCA119_FEATURETYPE_COMMBLDGFEATURE	Decode Table for Values in item FEATURETYPE in table COMMBLDGFEATURE_EXTR	None planned	Table	KCGIS Center	No
KCA143_COMPLEXTYPE_CONDOCOMPLEX	Decode Table for Values in item COMPLEXTYPE in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA145_CONDOLANDTYPE_CONDOCOMPLEX	Decode Table for Values in item CONDOLANDTYPE in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA146_MOBHOMEGR_CONDOUNIT	Decode Table for Values in item MOBHOMEGR in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
KCA150_UNITTYPE_CONDOUNIT	Decode Table for Values in item UNITTYPE in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA151_UNITQUALITY_CONDOUNIT	Decode Table for Values in item UNITQUALITY in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA152_UNITLOCATION_CONDOUNIT	Decode Table for Values in item UNITLOCATION in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA155_CONDITION_CONDOUNIT	Decode Table for Values in item CONDITION in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA156_OTHRM_CONDOUNIT	Decode Table for Values in item OTHRM in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA157_VWCITYTERR_CONDOUNIT	Decode Table for Values in item VWCITYTERR in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA157_VWLAKERIVER_CONDOUNIT	Decode Table for Values in item VWLAKERIVER in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA157_VWLAKEWASAMM_CONDOUNIT	Decode Table for Values in item VWLAKEWASAMM in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA157_VWMT_CONDOUNIT	Decode Table for Values in item VWMT in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA157_VWPS_CONDOUNIT	Decode Table for Values in item VWPS in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA159_PARKOTHER_CONDOUNIT	Decode Table for Values in item PARKOTHER in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA16_CURRENTUSEDESIGNATION_PARCEL	Decode Table for Values in item CURRENTUSEDESIGNATION in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA2_PRINCIPALUSE_RPSALE	Decode Table for Values in item PRINCIPALUSE in table RPSALE_EXTR	None planned	Table	KCGIS Center	No
KCA4_PROPERTYCLASS_RPSALE	Decode Table for Values in item PROPERTYCLASS in table RPSALE_EXTR	None planned	Table	KCGIS Center	No
KCA40_UNITOFMEASURE_CONDOUNIT	Decode Table for Values in item UNITOFMEASURE in table CONDOUNIT_EXTR	None planned	Table	KCGIS Center	No
KCA5_SALEREASON_RPSALE	Decode Table for Values in item SALEREASON in table RPSALE_EXTR	None planned	Table	KCGIS Center	No
KCA50_WFNTLOCATION_PARCEL	Decode Table for Values in item WFNTLOCATION in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA51_WFNTPOORQUALITY_PARCEL	Decode Table for Values in item WFNTPOORQUALITY in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA52_WFNTBANK_PARCEL	Decode Table for Values in item WFNTBANK in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA53_WFNTRESTRICTEDACCESS_PARCEL	Decode Table for Values in item WFNTRESTRICTEDACCESS in table PARCEL_EXTR	None planned	Table	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
KCA54_TIDELANDSHORELAND_PARCEL	Decode Table for Values in item TIDELANDSHORELAND in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA55_SITEACCESS_PARCEL	Decode Table for Values in item SITEACCESS in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA56_WATERSYSTEM_PARCEL	Decode Table for Values in item WATERSYSTEM in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA57_SEWERSYSTEM_PARCEL	Decode Table for Values in item SEWERSYSTEM in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_CASCADES_PARCEL	Decode Table for Values in item CASCADES in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_LAKESAMMAMISH_PARCEL	Decode Table for Values in item LAKESAMMAMISH in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_LAKEWASHINGTON_PARCEL	Decode Table for Values in item LAKEWASHINGTON in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_MTRAINIER_PARCEL	Decode Table for Values in item MTRAINIER in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_OLYMPICS_PARCEL	Decode Table for Values in item OLYMPICS in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_OTHERVIEW_PARCEL	Decode Table for Values in item OTHERVIEW in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_PUGETSOUND_PARCEL	Decode Table for Values in item PUGETSOUND in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_SEATTLESKYLINE_PARCEL	Decode Table for Values in item SEATTLESKYLINE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_SMALLLAKERIVERCREEK_PARCEL	Decode Table for Values in item SMALLLAKERIVERCREEK in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA58_TERRITORIAL_PARCEL	Decode Table for Values in item TERRITORIAL in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA59_TOPOGRAPHY_PARCEL	Decode Table for Values in item TOPOGRAPHY in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA6_SALEINSTRUMENT_RPSALE	Decode Table for Values in item SALEINSTRUMENT in table RPSALE_EXTR	None planned	Table	KCGIS Center	No
KCA60_STREETSURFACE_PARCEL	Decode Table for Values in item STREETSURFACE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA66_HEATINGSYSTEM_COMMBLDG	Decode Table for Values in item HEATINGSYSTEM in table COMMBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA67_HISTORICSITE_PARCEL	Decode Table for Values in item HISTORICSITE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA7_SALEWARNING_RPSALE	Decode Table for Values in item SALEWARNING in table RPSALE_EXTR	None planned	Table	KCGIS Center	No
KCA82_BLDGGRADE_RESBLDG	Decode Table for Values in item BLDGGRADE in table RESBLDG_EXTR	None planned	Table	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
KCA82_FINBASEMENTGRADE_RES BLDG	Decode Table for Values in item FINBASEMENTGRADE in table RESBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA83_CONDITION_APTCOMPLEX	Decode Table for Values in item CONDITION in table APTCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA83_CONDITION_CONDOCOMPL EX	Decode Table for Values in item CONDITION in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA83_CONDITION_RESBLDG	Decode Table for Values in item CONDITION in table RESBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA84_HEATSOURCE_RESBLDG	Decode Table for Values in item HEATSOURCE in table RESBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA89_LAUNDRY_APTCOMPLEX	Decode Table for Values in item LAUNDRY in table APTCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA89_LAUNDRY_CONDOCOMPLE X	Decode Table for Values in item LAUNDRY in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA90_RESTRICTIVESZSHAPE_PAR CEL	Decode Table for Values in item RESTRICTIVESZSHAPE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA900_PROPTYPE_PARCEL	Decode Table for Values in item PROPTYPE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA900_PROPTYPE_VACANTLOT	Decode Table for Values in item PROPTYPE in table VACANTLOT_EXTR	None planned	Table	KCGIS Center	No
KCA901_TAXSTAT_RPACCT	Decode Table for Values in item TAXSTAT in table RPACCT_EXTR	None planned	Table	KCGIS Center	No
KCA902_TAXVALREASON_RPACCT	Decode Table for Values in item TAXVALREASON in table RPACCT_EXTR	None planned	Table	KCGIS Center	No
KCA91_CORNERLOT_PARCEL	Decode Table for Values in item CORNERLOT in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA92_INADEQUATEPARKING_PAR CEL	Decode Table for Values in item INADEQUATEPARKING in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA93_CONTAMINATION_PARCEL	Decode Table for Values in item CONTAMINATION in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA95_TRAFFICNOISE_PARCEL	Decode Table for Values in item TRAFFICNOISE in table PARCEL_EXTR	None planned	Table	KCGIS Center	No
KCA96_BLDGQUALITY_APTCOMPLE X	Decode Table for Values in item BLDGQUALITY in table APTCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA96_BLDGQUALITY_COMMBLDG	Decode Table for Values in item BLDGQUALITY in table COMMBLDG_EXTR	None planned	Table	KCGIS Center	No
KCA96_BLDGQUALITY_CONDOCOM PLEX	Decode Table for Values in item BLDGQUALITY in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA97_CONCLASS_APTCOMPLEX	Decode Table for Values in item CONCLASS in table APTCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA97_CONSTRCLASS_COMMBLD G	Decode Table for Values in item CONSTRCLASS in table	None planned	Table	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	COMMBLDG_EXTR				
KCA97_CONSTRCLASS_CONDOCOMPLEX	Decode Table for Values in item CONSTRCLASS in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA98_PROJECTLOCATION_CONDOCOMPLEX	Decode Table for Values in item PROJECTLOCATION in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA98_PROJLOC_APTCOMPLEX	Decode Table for Values in item PROJLOC in table APTCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA99_PROJAPP_APTCOMPLEX	Decode Table for Values in item PROJAPP in table APTCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCA99_PROJECTAPPEAL_CONDOCOMPLEX	Decode Table for Values in item PROJECTAPPEAL in table CONDOCOMPLEX_EXTR	None planned	Table	KCGIS Center	No
KCBASE_GRP	King County Base Map Layers	As needed	Group LYR File	KCGIS Center	No
KCTOPOGRAPHICBASE_GRP	King County Topographic Base Map Layers	As needed	Group LYR File	KCGIS Center	No
KCZIPCODE	US Post Office zipcode extract table	Monthly	Table	KCGIS Center	No
KEY_INTEREST	Key Interest Points of Interest	As needed	Vector	KCGIS Center	No
KINGCO	King County Political Boundary (no waterbodies)	Irregular	Vector	KCGIS Center	Yes
KINGSH	King County with Natural Shoreline for Puget Sound and Lake Washington	As needed	Vector	KCGIS Center	Yes
KITSAP_GCS	Kitsap County Address Geocoding Service	Quarterly	Address Locator	KCGIS Center	No
KROLLIDX	Kroll Map Page Index	As needed	Vector	KCGIS Center	No
LEVYDISTXREF_EXTR	Levy Code to District Cross-Reference Assessor extract table	Weekly	Table	KCGIS Center	No
LOCALEYES_BLKGRP00	Census 2000 Block Group Data (LocalEyes application)	None planned	Table	KCGIS Center	No
LOCALEYES_CITY	City Data (LocalEyes application)	None planned	Table	KCGIS Center	No
LOCALEYES_HPA	Life Expectancy in Health Planning Area (LocalEyes application)	None planned	Table	KCGIS Center	No
LOCALEYES_KINGUSA	King County and USA Data (LocalEyes application)	None planned	Table	KCGIS Center	No
LOCALEYES_TRACTS00	Census 2000 Tract Data (LocalEyes application)	None planned	Table	KCGIS Center	No
LOOKUP_EXTR	Record Lookup Assessor extract table	Weekly	Table	KCGIS Center	No
MEDICAL_FACILITIES	Medical Facilities including Hospitals	Annually	Vector	KCGIS Center	Yes
MTPEAKS	Mountain Peaks with Elevations	As needed	Vector	KCGIS Center	Yes
MUN_WSHD	Municipal Watersheds in King County	As needed	Vector	KCGIS Center	Yes
NORTHCENTRALTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - NorthCentral Township Cluster	None planned	Group LYR File	KCGIS Center	No
NORTHEASTTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - NorthEast Township Cluster	None planned	Group LYR File	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
NORTHWESTTOWNSHIPSCONTOUR 005_GRP	Five (5) foot contours - NorthWest Township Cluster	None planned	Group LYR File	KCGIS Center	No
OBLIQUE_IMAGE07	Index to 2007 Pictometry oblique images	None planned	Vector	KCGIS Center	No
OBLIQUE_IMAGE09	Index to 2009 Pictometry oblique images	None planned	Vector	KCGIS Center	No
OBLIQUE_IMAGE11	Index to 2011 Pictometry oblique images	None planned	Vector	KCGIS Center	No
OBLIQUE_IMAGE13	Index to 2013 Pictometry oblique images	None planned	Vector	KCGIS Center	No
OPPIPES	Olympic Pipeline	None planned	Vector	KCGIS Center	No
ORTHO_IMAGE07	Index to 2007 Pictometry vertical (nadir) images	None planned	Vector	KCGIS Center	No
ORTHO_IMAGE09	Index to 2009 Pictometry vertical (nadir) images	None planned	Vector	KCGIS Center	No
ORTHO_IMAGE10	Photo Centers for 2010 King County OrthoImagery Project	None planned	Vector	KCGIS Center	No
ORTHO_IMAGE11	Index to 2011 Pictometry nadir images	As needed	Vector	KCGIS Center	No
ORTHO_IMAGE12	Photo Center Index to 2012 Regional Aerial Mapping Project Imagery	None planned	Vector	KCGIS Center	Yes
ORTHO_IMAGE13	Index to 2013 Pictometry nadir images	As needed	Vector	KCGIS Center	No
ORTHO_INDEX	Index to Project Image Library Orthoimagery and Scans	As needed	Vector	KCGIS Center	No
ORTHO_INDEX_AREA_SITEMAP	Extents index for DDES Critical Area Ordinance Field Maps (Scans)	As needed	Vector	KCGIS Center	No
PARCEL_ADDRESS	Parcel Joined to Addresses	Weekly	Vector	KCGIS Center	Yes
PARCEL_AREA_PRESENTUSE	Present Use for KC Parcels	As needed	Vector	KCGIS Center	No
PARCEL_COMMONDATA_AREA_VIEW	Parcel with commonly used attributes	Weekly	Vector	KCGIS Center	No
PARCEL_COMMONDATA_VIEW	Parcel with commonly used attributes	Weekly	Vector	KCGIS Center	No
PARCEL_EXTR	Parcel Record Assessor extract table	Weekly	Table	KCGIS Center	No
PARCEL_HEALTH_VIEW	Tabular view providing relationship between individual parcels (PINs) and city jurisdictions	Weekly	Table	KCGIS Center	No
PARCEL_PRESENTUSE_AREA_VIEW	Spatial view showing Parcels linked to Present Use code from PARCEL_EXTR	Weekly	Table	KCGIS Center	No
PARCEL_REPORT_VIEW	Tabular view based on Assessor parcel property information	Weekly	Table	KCGIS Center	No
PARCEL_RPACCT_MAXBILLYR_AREA_VIEW	Spatial view showing parcels that have been billed for taxes during the most recent (current or maximum) billing year	Weekly	Vector	KCGIS Center	No
PARCEL_SALES3YR	Parcel sales history - last 3 years	Weekly	Vector	KCGIS Center	No
PARCELLEGALDESC_EXTR	Parcel Legal Description Assessor extract table	Weekly	Table	KCGIS Center	No
PERSONALPROPERTY_EXTR	Personal property Assessor extract table	Annually	Table	KCGIS Center	No
PHOTO_CONTROL	Orthophoto Ground Control Locations and Image Error Calculations	As needed	Vector	KCGIS Center	Yes
PIERCE_GCS	Pierce County Address Geocoding Service	Quarterly	Address Locator	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
PLACE	Census 1990 Places	None planned	Vector	KCGIS Center	No
PLACE00	2000 Census Places	None planned	Vector	KCGIS Center	No
PLACE10	2010 Census Places for Washington - Not conflated to KC Base Data	None planned	Vector	KCGIS Center	No
PLACE10_AREA_HISPANIC	2010 Census Places with Hispanic/Latino (and NonHispanic/NonLatino) Data by Race - selected items	As needed	Vector	KCGIS Center	No
PLACE10_AREA_HISPANIC_18UP	2010 Census Places with Hispanic/Latino (and NonHispanic/NonLatino) - 18 Years and Older - Population Counts by Race - selected items	As needed	Vector	KCGIS Center	No
PLACE10_AREA_HOUSING	2010 Census Places Housing Data	As needed	Vector	KCGIS Center	No
PLACE10_AREA_KEYVAL	2010 Census Places with Housing and Population Totals	As needed	Vector	KCGIS Center	No
PLACE10_AREA_RACE_18UP	2010 Census Places with Race data (18 years old and up) - selected items	As needed	Vector	KCGIS Center	No
PLACE10_AREA_RACE_ALL	2010 Census Places with All Race data - selected items	As needed	Vector	KCGIS Center	No
PLACE10_AREA_SF1H42	2010 Census Places: Housing Units - Housing Units (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1H44	2010 Census Places: Vacancy Status - Vacant Housing Units (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1H47	2010 Census Places: Presence and Age of Own Children - Occupied Housing Units (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P01	2010 Census Places: Total Population - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P03	2010 Census Places: Race - Total Races Tallied (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P04	2010 Census Places: Race - Population 18 Years and Over (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P05	2010 Census Places: Households - Households (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P06	2010 Census Places: Population Substituted - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P07	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P08	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P09	2010 Census Places: Household Type - Households (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P15	2010 Census Places: Hawaiian and Pacific Islander Alone With 1 Hawaiian or Pacfic Islander Group - Total Hawaiian and Pacific Islander Categories Tallied and People With No Hawaiian and Other Pacific Islander Reported (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P16	2010 Census Places: Hispanic or Latino - Total Population (sel items)	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
PLACE10_AREA_SF1P17	2010 Census Places: Age - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P18	2010 Census Places: Presence of Multigenerational Households - Households (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P20	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P21	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P22	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P23	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P24	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P25	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P26	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P27	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P28	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P29	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P30	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P31	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P32	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P33	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLACE10_AREA_SF1P34	2010 Census Places: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
PLATFILE_EXTR	Plat File Assessor extract table	Weekly	Table	KCGIS Center	No
PLSF_BLK10_HISPANIC	2010 Census Block Groups: Hispanic or Latino (and not Hispanic/Not Latino) by Race (All Ages) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_BLK10_HISPANIC_18UP	2010 Census Blocks: Hispanic or Latino (and not Hispanic/Not Latino) by Race (Age 18 and Older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_BLK10_HOUSING	2010 Census Blocks: Housing Occupancy Table	None planned	Table	KCGIS Center	Yes
PLSF_BLK10_RACE_18UP	2010 Census Blocks: Race (18 years and older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_BLK10_RACE_ALL	2010 Census Blocks: All Races All Ages Data Table	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
PLSF_GRP10_HISPANIC	2010 Census Block Groups: Hispanic or Latino (and not Hispanic/Not Latino) by Race - All Ages Data Table	None planned	Table	KCGIS Center	Yes
PLSF_GRP10_HISPANIC_18UP	2010 Census Block Groups: Hispanic or Latino (and not Hispanic/Not Latino) by Race (18 years and older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_GRP10_HOUSING	2010 Census: Block Groups: Housing Occupancy Data Table	None planned	Table	KCGIS Center	Yes
PLSF_GRP10_RACE_18UP	2010 Census Block Groups: Race (18 years and older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_GRP10_RACE_ALL	2010 Census Block Groups: All Race All Ages Data Table	None planned	Table	KCGIS Center	Yes
PLSF_PLACE10_HISPANIC	2010 Census Places: Hispanic or Latino (and not Hispanic/Not Latino) by Race (All Ages) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_PLACE10_HISPANIC_18UP	2010 Census Places: Hispanic or Latino (and not Hispanic/Not Latino) by Race (Age 18 and Older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_PLACE10_HOUSING	2010 Census Places: Housing Occupancy Table	None planned	Table	KCGIS Center	Yes
PLSF_PLACE10_RACE_18UP	2010 Census Places: Race (18 years and older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_PLACE10_RACE_ALL	2010 Census Places: All Races All Ages Data Table	None planned	Table	KCGIS Center	Yes
PLSF_TRT10_HISPANIC	2010 Census Tracts: Hispanic or Latino (and not Hispanic/Not Latino) by Race (All Ages) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_TRT10_HISPANIC_18UP	2010 Census Tracts: Hispanic or Latino (and not Hispanic/Not Latino) by Race (Ages 18 and Up) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_TRT10_HOUSING	2010 Census Tracts: Housing Occupancy Data Table	None planned	Table	KCGIS Center	Yes
PLSF_TRT10_RACE_18UP	2010 Census Tract Race (18 years and older) Data Table	None planned	Table	KCGIS Center	Yes
PLSF_TRT10_RACE_ALL	2010 Census Tracts: All Race All Ages Data Table	None planned	Table	KCGIS Center	Yes
PLSS_QTR	Public Land Survey Quarter Sections - 3 county area	As needed	Vector	KCGIS Center	Yes
PLSS_SEC	Public Land Survey Sections - 3 county area	As needed	Vector	KCGIS Center	Yes
PLSS_TWN	Public Land Survey System Townships - 3 county area	As needed	Vector	KCGIS Center	Yes
PLSS_TWN_AREA_CTRCLUSTERS	Township Clusters (groups) Index for five (5) foot contours	As needed	Vector	KCGIS Center	No
PUBHEALTH_ALL_INDICATORS	Business table of public health indicator values based on census information for White Center area; Blvd Park and Seattle	As needed	Table	KCGIS Center	No
PUBHEALTH_BLKGRP_CONF	Public health indicator values based on census block group data	As needed	Table	KCGIS Center	No
PUBHEALTH_BLKGRP_DATA	Public health indicator values based on	As needed	Table	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	census block group data				
PUBHEALTH_INDICATORS	Business table of public health indicator values based on census information for White Center area	As needed	Table	KCGIS Center	No
PUBHEALTH_PLACE_CI	Public health indicator values based on census place data	As needed	Table	KCGIS Center	No
PUBHEALTH_PLACE_NP	Public health indicator values based on census place data	As needed	Table	KCGIS Center	No
PUBHEALTH_TRACT_CONF	Public health indicator values based on census tract data	As needed	Table	KCGIS Center	No
PUBHEALTH_TRACT_DATA	Public health indicator values based on census tract data	As needed	Table	KCGIS Center	No
RASTSTAT_7500	7500-FT Tiling Status for KC Raster Datasets	As needed	Vector	KCGIS Center	Yes
RASTSTAT_TRMBR	Townshp-Range Tiling Status for KC Raster Datasets	As needed	Vector	KCGIS Center	Yes
REG_PSCTR020	Puget Sound 20-Foot Contours	As needed	Vector	KCGIS Center	Yes
RESBLDG_EXTR	Residential Building Assessor extract table	Weekly	Table	KCGIS Center	No
RESBLDG_REPORT_VIEW	Tabular view based on Assessor residential building property information	Weekly	Table	KCGIS Center	No
ROAD_GRADIENT	Steep Gradient on Roadways	As needed	Vector	KCGIS Center	No
RPACCT_2005_VIEW	Tabular view based on Assessor extract table RPACCT_EXTR for those properties whose maximum billing year was 2005	Weekly	Table	KCGIS Center	No
RPACCT_EXTR	Real Property Tax Account Assessor extract table	Weekly	Table	KCGIS Center	No
RPACCT_MAXBILLYR	Business table created from RPACCT_MAXBILLYR_VIEW for use in web applications to improve performance over view	Weekly	Table	KCGIS Center	No
RPACCT_MAXBILLYR_VIEW	Spatial view showing parcels that have been billed for taxes during the most recent (current or maximum) billing year	Weekly	Table	KCGIS Center	No
RPACCT_VIEW	Tabular view relating RPACCT_MAXBILLYR and RPSALE_VIEW	Weekly	Table	KCGIS Center	No
RPSALE_EXTR	Real Property Sale Record Assessor extract table	Weekly	Table	KCGIS Center	No
RPSALE_VIEW	Tabular view relating Assessor extract table RPSALE_EXTR and LOOKUP_EXTR	Weekly	Table	KCGIS Center	No
SCHSITE	School Sites in King County	As needed	Vector	KCGIS Center	Yes
SF1_BLK00_H_DAT	Census 2000 Block Level housing data	None planned	Table	KCGIS Center	Yes
SF1_BLK00_P1_DAT	Census 2000 Block Level people data set 1	None planned	Table	KCGIS Center	Yes
SF1_BLK00_P2_DAT	Census 2000 Block Level people data set 2	None planned	Table	KCGIS Center	Yes
SF1_BLK10_H42	2010 Census SF1 table: Housing Units - Housing Units for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_H43	2010 Census SF1 table: Urban and Rural -	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	Housing Units for Blocks				
SF1_BLK10_H44	2010 Census SF1 table: Vacancy Status - Vacant Housing Units for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_H46	2010 Census SF1 table: Tenure - Occupied Housing Units for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P01	2010 Census SF1 table: Total Population - Total Population for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P02	2010 Census SF1 table: Urban and Rural - Total Population for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P03	2010 Census SF1 table: Race - Total Races Tallied for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P04	2010 Census SF1 table: Race - Population 18 Years and Over for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P05	2010 Census SF1 table: Households - Households for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P06	2010 Census SF1 table: Population Substituted - Total Population for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P07	2010 Census SF1 table: Sex - Total Population for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P08	2010 Census SF1 table: Sex - Total Population for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P09	2010 Census SF1 table: Household Type - Households for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P10	2010 Census SF1 table: Relationship - Total Population for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P11	2010 Census SF1 table: Household Type - Population Under 18 Years for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P12	2010 Census SF1 table: Presence and Age of Own Children - Families for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P13	2010 Census SF1 table: Presence and Age of Own Children - Families for Blocks	None planned	Table	KCGIS Center	Yes
SF1_BLK10_P14	2010 Census SF1 table: Family Type - Families for Blocks	None planned	Table	KCGIS Center	Yes
SF1_FIELDLIB_DAT	Census 2000 Field Library for SF 1 data	None planned	Table	KCGIS Center	Yes
SF1_GRP00_H_DAT	Census 2000 Block Group Level housing data	None planned	Table	KCGIS Center	Yes
SF1_GRP00_P1_DAT	Census 2000 Block Group level people data set 1	None planned	Table	KCGIS Center	Yes
SF1_GRP00_P2_DAT	Census 2000 Block Group level people data set 2	None planned	Table	KCGIS Center	Yes
SF1_GRP10_H42	2010 Census SF1 table: Housing Units - Housing Units for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_H43	2010 Census SF1 table: Urban and Rural - Housing Units for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_H44	2010 Census SF1 table: Vacancy Status - Vacant Housing Units for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_H46	2010 Census SF1 table: Tenure - Occupied	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	Housing Units for Block Groups				
SF1_GRP10_P01	2010 Census SF1 table: Total Population - Total Population for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P02	2010 Census SF1 table: Urban and Rural - Total Population for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P03	2010 Census SF1 table: Race - Total Races Tallied for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P04	2010 Census SF1 table: Race - Population 18 Years and Over for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P05	2010 Census SF1 table: Households - Households for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P06	2010 Census SF1 table: Population Substituted - Total Population for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P07	2010 Census SF1 table: Sex - Total Population for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P08	2010 Census SF1 table: Sex - Total Population for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P09	2010 Census SF1 table: Household Type - Households for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P10	2010 Census SF1 table: Relationship - Total Population for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P11	2010 Census SF1 table: Household Type - Population Under 18 Years for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P12	2010 Census SF1 table: Presence and Age of Own Children - Families for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P13	2010 Census SF1 table: Presence and Age of Own Children - Families for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_GRP10_P14	2010 Census SF1 table: Family Type - Families for Block Groups	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_H42	2010 Census SF1 table: Housing Units - Housing Units for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_H44	2010 Census SF1 table: Vacancy Status - Vacant Housing Units for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_H47	2010 Census SF1 table: Presence and Age of Own Children - Occupied Housing Units for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P01	2010 Census SF1 table: Total Population - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P02	2010 Census SF1 table: Urban and Rural - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P03	2010 Census SF1 table: Race - Total Races Tallied for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P04	2010 Census SF1 table: Race - Population 18 Years and Over for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P05	2010 Census SF1 table: Households -	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	Households for Places				
SF1_PLACE10_P06	2010 Census SF1 table: Population Substituted - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P07	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P08	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P09	2010 Census SF1 table: Household Type - Households for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P10	2010 Census SF1 table: Relationship - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P11	2010 Census SF1 table: Household Type - Population Under 18 Years for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P12	2010 Census SF1 table: Presence and Age of Own Children - Families for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P13	2010 Census SF1 table: Presence and Age of Own Children - Families for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P14	2010 Census SF1 table: Family Type - Families for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P17	2010 Census SF1 table: Age - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P20	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P21	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P22	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P23	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P24	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P25	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P26	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P27	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P28	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P29	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P30	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P31	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P32	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
SF1_PLACE10_P33	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P34	2010 Census SF1 table: Sex - Total Population for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P35	2010 Census SF1 table: Sex - Population in Households for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P36	2010 Census SF1 table: Sex - Population in Households for Places	None planned	Table	KCGIS Center	Yes
SF1_PLACE10_P39	2010 Census SF1 table: Group Quarters Type - Population 18 Years and Over in Group Quarters for Places	None planned	Table	KCGIS Center	Yes
SF1_TRT00_H_DAT	Census 2000 Tract level housing data	None planned	Table	KCGIS Center	Yes
SF1_TRT00_P1_DAT	Census 2000 Tract level people data set 1	None planned	Table	KCGIS Center	Yes
SF1_TRT00_P2_DAT	Census 2000 Tract level people data set 2	None planned	Table	KCGIS Center	Yes
SF1_TRT10_H42	2010 Census SF1 table: Housing Units - Housing Units for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_H43	2010 Census SF1 table: Urban and Rural - Housing Units for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_H44	2010 Census SF1 table: Vacancy Status - Vacant Housing Units for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_H46	2010 Census SF1 table: Tenure - Occupied Housing Units for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_H47	2010 Census SF1 table: Presence and Age of Own Children - Occupied Housing Units for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P01	2010 Census SF1 table: Total Population - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P02	2010 Census SF1 table: Urban and Rural - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P03	2010 Census SF1 table: Race - Total Races Tallied for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P04	2010 Census SF1 table: Race - Population 18 Years and Over for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P05	2010 Census SF1 table: Households - Households for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P06	2010 Census SF1 table: Population Substituted - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P07	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P08	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P09	2010 Census SF1 table: Household Type - Households for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P10	2010 Census SF1 table: Relationship - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P11	2010 Census SF1 table: Household Type - Population Under 18 Years for Tracts	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
SF1_TRT10_P12	2010 Census SF1 table: Presence and Age of Own Children - Families for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P13	2010 Census SF1 table: Presence and Age of Own Children - Families for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P14	2010 Census SF1 table: Family Type - Families for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P17	2010 Census SF1 table: Age - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P20	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P21	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P22	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P23	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P24	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P25	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P26	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P27	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P28	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P29	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P30	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P31	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P32	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P33	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P34	2010 Census SF1 table: Sex - Total Population for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P35	2010 Census SF1 table: Sex - Population in Households for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P36	2010 Census SF1 table: Sex - Population in Households for Tracts	None planned	Table	KCGIS Center	Yes
SF1_TRT10_P39	2010 Census SF1 table: Group Quarters Type - Population 18 Years and Over in Group Quarters for Tracts	None planned	Table	KCGIS Center	Yes
SF3_FIELDLIB_DAT	Census 2000 Field Library for SF 3 data	None planned	Table	KCGIS Center	Yes
SF3_GRP00_H_DAT	Census 2000 Block Group level housing data	None planned	Table	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
SF3_GRP00_P_DAT	Census 2000 Block Group level people data	None planned	Table	KCGIS Center	Yes
SF3_TRT00_H_DAT	Census 2000 Tract level housing data	None planned	Table	KCGIS Center	Yes
SF3_TRT00_P_DAT	Census 2000 Tract level people data	None planned	Table	KCGIS Center	Yes
SNOHOMISH_GCS	Snohomish County Address Geocoding Service	Quarterly	Address Locator	KCGIS Center	No
SOUTHCENTRALTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - SouthCentral Township Cluster	None planned	Group LYR File	KCGIS Center	No
SOUTHEASTTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - SouthEast Township Cluster -	None planned	Group LYR File	KCGIS Center	No
SOUTHWESTTOWNSHIPSCONTOUR005_GRP	Five (5) foot contours - SouthWest Township Cluster -	None planned	Group LYR File	KCGIS Center	No
ST_ADDRESS	Street Address	Quarterly	Vector	KCGIS Center	Yes
ST_ADDRESS_LINE_KC_FCC	ST_ADDRESS symbolized for Road Class	Quarterly	Vector	KCGIS Center	No
ST_ADDRESS_US_STREETS_DUAL_RANGES_GCS	Address Locator for ST_ADDRESS_LINE Style US Streets Dual Ranges	Quarterly	Address Locator	KCGIS Center	No
ST_NAMES	Cross street names business table	As needed	Table	KCGIS Center	No
ST_NODE_XY	Cross street XY coordinate business table	As needed	Table	KCGIS Center	No
ST_NODES	Cross street node business table	As needed	Table	KCGIS Center	No
ST_TYPES	King County Street Types	As needed	Table	KCGIS Center	No
STREET_DIRECTION_ZONES	Street Directional Zones - County and City-Specific	As needed	Vector	KCGIS Center	Yes
T18R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T18R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
T19R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T19R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T20R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T21R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T22R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
T23R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T23R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R13_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T24R14_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T25R13_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
T26R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R12_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T26R13_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T27R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T28R11_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R02_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R03_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R04_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R05_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R06_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R07_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R08_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R09_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes
T29R10_CONTOUR005	Five (5) foot-interval index contour isolines	Irregular	Vector	KCGIS Center	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
TAZ	Census 1990 Traffic Analysis Zones	None planned	Vector	KCGIS Center	No
TAZ00	Census 2000 Traffic Analysis Zones	None planned	Vector	KCGIS Center	Yes
THOM_BROS	The Thomas Guide page index	None planned	Vector	KCGIS Center	No
THOM_BROS_RC	Thomas Brothers Guide - row/column	None planned	Vector	KCGIS Center	No
TRACT	Census 1990 Tracts	None planned	Vector	KCGIS Center	No
TRACTS00	Census 2000 Tracts	None planned	Vector	KCGIS Center	Yes
TRACTS00_ACS_0509	American Community Survey Based on 2000 Census Tracts	None planned	Vector	KCGIS Center	No
TRACTS00_SHORE	Census 2000 Tracts - Major WTRBDY Features Removed	None planned	Vector	KCGIS Center	Yes
TRACTS10	2010 Census Tracts for King County - Conflated to Parcels	None planned	Vector	KCGIS Center	Yes
TRACTS10_AREA_HISPANIC	2010 Census Tracts with Hispanic/Latino (and NonHispanic/NonLatino) Data by Race - selected items	As needed	Vector	KCGIS Center	No
TRACTS10_AREA_HISPANIC_18UP	2010 Census Tracts with Hispanic/Latino (and NonHispanic/NonLatino) - 18 Years and Older - Population Counts by Race - selected items	As needed	Vector	KCGIS Center	No
TRACTS10_AREA_HOUSING	2010 Census Tracts Housing Data	As needed	Vector	KCGIS Center	No
TRACTS10_AREA_KEYVAL	2010 Census Tracts with Housing and Population Totals	As needed	Vector	KCGIS Center	No
TRACTS10_AREA_RACE_18UP	2010 Census Tracts with Race (18 years old and up) data - selected items	As needed	Vector	KCGIS Center	No
TRACTS10_AREA_RACE_ALL	2010 Census Tracts with All Race data - selected items	As needed	Vector	KCGIS Center	No
TRACTS10_AREA_SF1H42	2010 Census Tracts: Housing Units - Housing Units (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1H44	2010 Census Tracts: Vacancy Status - Vacant Housing Units (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1H47	2010 Census Tracts: Presence and Age of Own Children - Occupied Housing Units (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P01	2010 Census Tracts: Total Population - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P03	2010 Census Tracts: Race - Total Races Tallied (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P04	2010 Census Tracts: Race - Population 18 Years and Over (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P05	2010 Census Tracts: Households - Households (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P06	2010 Census Tracts: Population Substituted - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P07	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P08	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
TRACTS10_AREA_SF1P09	2010 Census Tracts: Household Type - Households (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P15	2010 Census Tracts: Hawaiian and Pacific Islander Alone With 1 Hawaiian or Pacfic Islander Group - Total Hawaiian and Pacific Islander Categories Tallied and People With No Hawaiian and Other Pacific Islander Reported (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P16	2010 Census Tracts: Hispanic or Latino - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P17	2010 Census Tracts: Age - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P18	2010 Census Tracts: Presence of Multigenerational Households - Households (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P20	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P21	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P22	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P23	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P24	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P25	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P26	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P27	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P28	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P29	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P30	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P31	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P32	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P33	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_AREA_SF1P34	2010 Census Tracts: Sex - Total Population (sel items)	None planned	Vector	KCGIS Center	No
TRACTS10_SHORE	2010 Census Tracts for King County - Conflated to Parcels - Major Waterbodies Erased	None planned	Vector	KCGIS Center	Yes
TRACTS10_SHORE_AREA_KEYVAL	2010 Census Block Groups-Water Erased-with Housing and Population Totals	As needed	Vector	KCGIS Center	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
VACANTLOT_EXTR	Vacant lot Assessor extract table	Weekly	Table	KCGIS Center	No
VETERANS_HUMAN_SERVICES_LEVY	Veterans Levy and Human Services Levy Service Locations	As needed	Vector	KCGIS Center	Yes
WASHCO	Washington Counties (no water)	As needed	Vector	KCGIS Center	Yes
WASHCO_AREA_BOUNDONLY	Generalized representation of Washington state without interior county borders	As needed	Vector	KCGIS Center	No
WASHCO_LINE_OUTLINE	Cartographic representation of generalized outline of Washington state	As needed	Vector	KCGIS Center	No
WASHSH	Washington Counties with Natural Shoreline	As needed	Vector	KCGIS Center	Yes
WETLAND_ALL	All Wetlands in King County	None planned	Vector	KCGIS Center	No
WTRBDY	Open water for King County and portions of adjacent counties	Annually	Vector	KCGIS Center	Yes
WTRBDY_AREA_BIGWATER	Major open water and double-banked streams and rivers	Biannually	Vector	KCGIS Center	No
WTRBDY_AREA_CARTO	Cartographic representation of Open Water features for King County and adjacent areas	As needed	Vector	KCGIS Center	No
WTRBDY_AREA_FEAT_TYPE	Open Water symbolized for feature type	As needed	Vector	KCGIS Center	No
WTRBDY_CON	Waterbodies conflated to PARCEL	As needed	Vector	KCGIS Center	No
WTRBDY_CON_AREA_BIGWATER	Major Waterbodies conflated to PARCEL	As needed	Vector	KCGIS Center	No
WTRBDY_DET	Waterbodies with History and Jurisdictional detail	As needed	Vector	KCGIS Center	Yes
WTRBDY_DET_AREA_ISLANDS	Marine and Freshwater Islands from WTRBDY_DET_AREA	As needed	Vector	KCGIS Center	No
WTRBDY_WET	Wetland class excerpted from WTRBDY	As needed	Vector	KCGIS Center	No
ZIP_5_DIGIT_GCS	Address Locator for ZIPCODE_AREA	Quarterly	Address Locator	KCGIS Center	No
ZIPCODE	Zipcodes for King County and Surrounding Area	As needed	Vector	KCGIS Center	Yes
ZIPCODE_ALL	Zipcodes for King County and Surrounding Area as Point Features	As needed	Vector	KCGIS Center	Yes
ZIPCODE_SHORE	Zipcodes for King County and Surrounding Area	As needed	Vector	KCGIS Center	Yes
BOUNDARY	Boundary	Weekly	Vector	Assessments	No
BOUNDARYEDITHISTORY_GRP	Boundary (Cadastral) Edit History for 2012 and 2013 - King County	As needed	Group LYR File	Assessments	No
CA1	King County Cadastral Annotation - Part 1	Weekly	Annotation	Assessments	No
CA2	King County Cadastral Annotation - Part 2	Weekly	Annotation	Assessments	No
CA3	King County Cadastral Annotation - Part 3	Weekly	Annotation	Assessments	No
CITY_ANNEX	Cities with Pending Annexations and Annexation History	As needed	Vector	Assessments	No
CITYLEVY	City Levy	Annually	Vector	Assessments	No
CURRENT_TAXROLL_YEAR	Current year taxroll business table	As needed	Table	Assessments	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ENCUMBRANCE	Encumbrance_Area	As needed	Vector	Assessments	No
FIRELEVY	Fire Levy	Annually	Vector	Assessments	No
KCACODE	Levy Code	Annually	Vector	Assessments	No
PARCEL	Parcel	Weekly	Vector	Assessments	Yes
PLSS	PLSS	As needed	Vector	Assessments	Yes
PLSS_CORNER	PLSS_Point	As needed	Vector	Assessments	No
ROW	Rights of Way	Weekly	Vector	Assessments	Yes
SCHLEVY	School Levy	Annually	Vector	Assessments	No
AGRPDDST	Agricultural Production District	As needed	Vector	DDES	Yes
BASIN_CONDITION	Environmental Condition of Basins	None planned	Vector	DDES	Yes
CHINBUFF	Mapped Chinook Distribution in King County	None planned	Vector	DDES	Yes
CITY	Incorporated Areas of King County	As needed	Vector	DDES	Yes
CITY_KC	Cities and Unincorporated King County	As needed	Vector	DDES	Yes
CITY_LUT	City Jurisdiction Code Lookup Table	None planned	Table	DDES	Yes
COALMINE	Coal Mine Hazards	None planned	Vector	DDES	Yes
CODE_RESTRICTION	Clearing Restriction Areas	None planned	Vector	DDES	Yes
COLSITE	Sites with Current or Grandfathered Mineral Extraction Rights	None planned	Vector	DDES	No
COMMUNITY_PLAN	Community Plan Area	None planned	Vector	DDES	Yes
COMPLU	Comprehensive Plan Land Use	Annually	Vector	DDES	Yes
DEVELOPMENT_CONDITION	Development Conditions for Unincorporated King County	As needed	Vector	DDES	Yes
ERODE	Erosion Hazards	None planned	Vector	DDES	Yes
FORPDDST	Forest Production Districts	Annually	Vector	DDES	Yes
GROWTH_PATTERN	Growth Patterns in King County	None planned	Vector	DDES	No
INTRMPAA	Potential Annexation Areas in King County	As needed	Vector	DDES	Yes
KCADDRGRID	Addressing Grid Reference for King County	Irregular	Vector	DDES	Yes
MPS	Road Mitigation Payment System Zones	As needed	Vector	DDES	Yes
RURAL_TOWN	Rural Towns Designated in King County Comprehensive Plan	As needed	Vector	DDES	Yes
SANT	Sensitive Area Notice on Title Parcels	As needed	Vector	DDES	No
SAOSTREAM	Sensitive Area Ordinance Streams	None planned	Vector	DDES	No
SEISM	Seismic Hazards	None planned	Vector	DDES	Yes
SHORELINE_CONDITION	Marine Shoreline Environmental Conditions	None planned	Vector	DDES	Yes
SHORELINEMMP	Shoreline Management Master Program	None planned	Vector	DDES	Yes
SLIDE	Landslide Hazard Areas	None planned	Vector	DDES	Yes
SPEC_DRAIN_REQ	Special Drainage Requirements	None planned	Vector	DDES	No
SSAQUIF	Sole Source Acquifer	None planned	Vector	DDES	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
TCMZONE	Roads Transportation Concurrency Mitigation Zone	As needed	Vector	DDES	Yes
TRIBAL_LANDS	Tribal Lands in King County	As needed	Vector	DDES	Yes
UAC	Unincorporated Area Councils	As needed	Vector	DDES	Yes
UPLOWTRIBBAS	Critical Areas Ordinance Basin Delineations	None planned	Vector	DDES	Yes
URBAN_GROWTH	Urban Growth Areas for King County	Annually	Vector	DDES	Yes
WETLANDS	Wetlands defined from Critical Area Ordinance surveys in King County	As needed	Vector	DDES	Yes
WILDNET96	Wildlife Habitat Network	None planned	Vector	DDES	Yes
ZONING	Zoning for Unincorporated King County	As needed	Vector	DDES	Yes
ADDRESS	Addresses in King County	Monthly	Vector	DES - EMD	Yes
REALPROP	King County Real Property	Quarterly	Vector	DES - FMD	Yes
FACILITY	Wastewater Treatment Facilities of King County	Continually	Vector	DNRP - WTD	Yes
FLOWMONITORS	Flow Monitoring Locations- King County Wastewater Treatment Division	Irregular	Vector	DNRP - WTD	No
FLOWMONITORS_TABLE	Flow Monitoring Data	Irregular	Table	DNRP - WTD	No
LOCATOR_ATTR	WTRSAMP location attributes	As needed	Table	DNRP - WTD	No
PLANT	King County and Local Sewer Agency Treatment Plants	As needed	Vector	DNRP - WTD	Yes
SEWER	Wastewater Conveyance for King County	Continually	Vector	DNRP - WTD	Yes
SITE_PLAN	Building Footprints for KC-WTD Facilities	As needed	Vector	DNRP - WTD	No
WTDBSN	Wastewater Treatment Division Sewer Basins	As needed	Vector	DNRP - WTD	No
WTDFLOW	Wastewater Treatment Division Sewer Basin Flow Direction	As needed	Vector	DNRP - WTD	Yes
WTDSERV	WTDSERV	As needed	Vector	DNRP - WTD	Yes
WTR_SERV	Water Service Area	As needed	Vector	DNRP - WTD	No
WTRSAMP	Water Sampling sites	Irregular	Vector	DNRP - WTD	Yes
AG_LANDUSE_GENL03	2003 Generalized Agricultural Land Use	None planned	Vector	DNRP - WLRD	No
AG_LANDUSE01	2001 Agricultural Land Uses	As needed	Vector	DNRP - WLRD	No
AG_LANDUSE06	Agricultural Land Use 2006 for Ag. Production Districts and Vashon	None planned	Vector	DNRP - WLRD	No
ASGWC	Areas Susceptible to Groundwater Contamination	As needed	Vector	DNRP - WLRD	No
CARA	Critical Aquifer Recharge Areas	As needed	Vector	DNRP - WLRD	Yes
CHNLMIGR	Channel Migration Areas	As needed	Vector	DNRP - WLRD	Yes
CIP_DNRP	Capital Improvement Projects (CIP) - DNRP	As needed	Vector	DNRP - WLRD	No
CLIPS_SPECIES_DATA	County Lands Invasive Plants Survey	As needed	Vector	DNRP - WLRD	No
CLIPS_SPECIES_DATA_AREA_TOTAL_INV	County Lands Invasive Plants Survey - Total Invasives	None planned	Vector	DNRP - WLRD	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
CUT_AG	Farm and Agricultural Current Use Parcels	Annually	Vector	DNRP - WLRD	No
CUT_FOREST	Forest Current Use Parcels	Annually	Vector	DNRP - WLRD	No
CUT_PBRS_TIMBER	King County Public Benefit Rating System and Timberland Current Use Taxation Properties	As needed	Vector	DNRP - WLRD	Yes
DRAINAGE_COMPLAINT	Drainage Complaints	Weekly	Vector	DNRP - WLRD	Yes
DRNSTUDY	Stormwater Drainage Studies	Irregular	Vector	DNRP - WLRD	No
FARMERS_MARKETS	Farmers Markets in King County	Annually	Vector	DNRP - WLRD	Yes
FARMLAND	Farmland Preservation Program Properties	As needed	Vector	DNRP - WLRD	Yes
FLDPLAIN	Floodplain	As needed	Vector	DNRP - WLRD	Yes
FLOOD_PHOTO	Flood Photos Along Major River Systems	As needed	Vector	DNRP - WLRD	Yes
FLOODWAY	Floodways in King County	As needed	Vector	DNRP - WLRD	Yes
GOVT_BUILDINGS	Government Buildings	As needed	Vector	DNRP - WLRD	No
GOVT_BUILDINGS_SERVICES	Government Services	As needed	Vector	DNRP - WLRD	No
GP_ECO_VALUES	Greenprint Conservation Values by Ecological Program	As needed	Table	DNRP - WLRD	No
GP_FARM_VALUES	Greenprint Farm Values	As needed	Table	DNRP - WLRD	No
GP_FLOOD_VALUES	Greenprint Flood Values	As needed	Table	DNRP - WLRD	No
GP_FOREST_VALUES	Greenprint Forest Values	As needed	Table	DNRP - WLRD	No
GWMA	Groundwater Management Areas	As needed	Vector	DNRP - WLRD	No
GWSOURCE	Groundwater Sources	Weekly	Vector	DNRP - WLRD	Yes
HYDROGAUGE	King County Hydrological Monitoring Gauges	Weekly	Vector	DNRP - WLRD	Yes
KCWHPA_10YR	Wellhead Protection Areas - Ten Year Time of Travel	None planned	Vector	DNRP - WLRD	Yes
KCWHPA_1YR	Wellhead Protection Areas - One Year Time of Travel	None planned	Vector	DNRP - WLRD	Yes
KCWHPA_5YR	Wellhead Protection Areas - Five Year Time of Travel	None planned	Vector	DNRP - WLRD	Yes
KCWHPA_6MO	Wellhead Protection Areas - 6 Month Time of Travel	None planned	Vector	DNRP - WLRD	Yes
NDA	Neighborhood Drainage Projects	Irregular	Vector	DNRP - WLRD	No
NOXIOUS_WEED	Noxious Weeds Survey Sitings	Annually	Vector	DNRP - WLRD	Yes
NOXIOUS_WEED_POINT_COMMON NAME	Noxious Weeds Survey Sitings - Common Name	Annually	Vector	DNRP - WLRD	No
NOXIOUS_WEED_POINT_WEED_CLASS	Noxious Weeds Survey Sitings - Weed Class	Annually	Vector	DNRP - WLRD	No
PARCEL_ECOVALUE_AREA_VIEW	Greenprint Conservation Values By Ecological Program View	As needed	Vector	DNRP - WLRD	No
PARCEL_FARMVAL_AREA_VIEW	Greenprint Conservation Values by Farm Program View	As needed	Vector	DNRP - WLRD	No
PARCEL_FLOODVAL_AREA_VIEW	Greenprint Conservation Values by Flood Value View	As needed	Vector	DNRP - WLRD	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
PARCEL_FORESTVAL_AREA_VIEW	Greenprint Conservation Values by Forest Value View	As needed	Vector	DNRP - WLRD	No
PESTICIDE_FREE_PUBLIC_SITES	Pesticide Free Public Sites in King County	As needed	Vector	DNRP - WLRD	Yes
PUBLIC_LANDS	Public Lands in King County	Monthly	Vector	DNRP - WLRD	Yes
RIVER_FACILITIES	River Facilities	As needed	Vector	DNRP - WLRD	Yes
RIVER_MILE	River Mile	As needed	Vector	DNRP - WLRD	Yes
SALMON_WATCHER	Salmon Watcher Program Monitoring Locations	Annually	Vector	DNRP - WLRD	Yes
SALMONW_BASINS	Salmon Watcher Program Basins	None planned	Vector	DNRP - WLRD	Yes
SANDBAG_DISTRIBUTION_LOCATION	Sandbag Distribution Location in King County	As needed	Vector	DNRP - WLRD	Yes
SMP_ACCESS	Shoreline Public Access	None planned	Vector	DNRP - WLRD	No
SMP_ACCESS_PRIORITIES	SMP - Public Access Priorities	None planned	Vector	DNRP - WLRD	No
SMP_DESIGNATIONS	Shoreline Master Program (SMP) Environment Designations	None planned	Vector	DNRP - WLRD	Yes
SMP_FINAL	Final Ecological Processes Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_JURISDICTION	Shoreline Master Program Jurisdiction in King County	None planned	Vector	DNRP - WLRD	No
SMP_LIGHT	Light Energy Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_LWD	Large Woody Debris Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_NITRO	Nitrogen Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_PATH	Pathogen Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_PHOS	Phosphorus Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_REACHES	Shoreline Master Program Reaches in King County	None planned	Vector	DNRP - WLRD	No
SMP_REACHES_AREA_REACHTYPE	Shoreline Master Program Reaches and Restoration Priorities in King County - Reach Type Layer	None planned	Vector	DNRP - WLRD	No
SMP_REACHES_AREA_RESTORATION	Shoreline Master Program Reaches and Restoration Priorities in King County - Reach Restoration Priority Layer	None planned	Vector	DNRP - WLRD	No
SMP_SEDIMENT	Sediment Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_SHORELINE_FACILITIES	Shoreline Facilities	None planned	Vector	DNRP - WLRD	No
SMP_SSSHORELINE	Shorelines of Satewide Significance in King County	None planned	Vector	DNRP - WLRD	No
SMP_TIDAL	Tidal Influence Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_TOXINS	Toxins Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_WATER	Hydrologic Cycle Reach Quality	None planned	Vector	DNRP - WLRD	No
SMP_WAVE	Wave Energy Reach Quality	None planned	Vector	DNRP - WLRD	No
SNOQ_OBLIQUE	Snoqulamie River Oblique Photos	None planned	Vector	DNRP - WLRD	Yes
STORM_FAC	Residential and Commercial Stormwater Facilities	Weekly	Vector	DNRP - WLRD	Yes
STORMREG	Regional Stormwater Facilities	Irregular	Vector	DNRP - WLRD	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
SWDM_FLOW	2005 SWDM Flow Control Applications Designations	None planned	Vector	DNRP - WLRD	No
SWDM_LH_DA	2005 SWDM Landslide Hazard Drainage Areas Designations	None planned	Vector	DNRP - WLRD	No
SWDM_WQ	2005 SWDM Water Quality Applications Designations	None planned	Vector	DNRP - WLRD	No
SWES_PROJ	KC DNRP WLRD Capital Projects and Open Space Acquistions Section projects	Annually	Vector	DNRP - WLRD	Yes
SWM_DATA_AREA_VIEW	Surface Water Management Fee Spatial View	As needed	Vector	DNRP - WLRD	No
SWM_DATA_TABLE	Surface Water Management Fee Data	Weekly	Table	DNRP - WLRD	No
TAXPAYER_LUT	Taxpayer Look-up Table	As needed	Table	DNRP - WLRD	No
TDR_RECEIVING_PROPERTIES	Transfer Development Right Program Receiving Site Properties	Biannually	Vector	DNRP - WLRD	No
TDR_SENDING_PROPERTIES	Transfer Development Right Program Sending Site Properties	Biannually	Vector	DNRP - WLRD	Yes
TDR_SITE	Transfer Development Right Program Sites	Biannually	Vector	DNRP - WLRD	Yes
TDR_SITE_LINK	Transfer Development Right Program Site Connections	Biannually	Vector	DNRP - WLRD	Yes
TOPO_BASIN	Basin boundaries derived from terrain data	As needed	Vector	DNRP - WLRD	No
TOPO_BASIN_KC	Basin boundaries derived from terrain data - King County only	As needed	Vector	DNRP - WLRD	Yes
TOPO_CATCHMENT	Catchment boundaries derived from terrian data	As needed	Vector	DNRP - WLRD	No
TOPO_CATCHMENT_KC	Catchment boundaries derived from terrain data - King County only	As needed	Vector	DNRP - WLRD	Yes
TOPO_WATERSHED	Watershed boundaries derived from terrain data	As needed	Vector	DNRP - WLRD	No
TOPO_WATERSHED_KC	Watershed boundaries derived from terrain data - King County only	As needed	Vector	DNRP - WLRD	Yes
TOPO_WRIA	WRIA boundaries derived from terrain data	As needed	Vector	DNRP - WLRD	No
TOPO_WRIA_KC	Watershed boundaries derived from terrain data - King County only	As needed	Vector	DNRP - WLRD	Yes
WEED_WATCHER_TRAIL_SITE	Weed Watcher Program Trails	As needed	Vector	DNRP - WLRD	Yes
WRIA9_PROJECTS	Water Resource Inventory Area 9 Salmon Habitat Projects	Weekly	Vector	DNRP - WLRD	No
WTRCRS	Rivers and Streams in King County	As needed	Vector	DNRP - WLRD	Yes
WTRCRS_3CO	Rivers and streams for Snohomish; Pierce and King Counties	As needed	Vector	DNRP - WLRD	No
WTRCRS_LINE_STREAMLEVEL	River and streams by stream level	As needed	Vector	DNRP - WLRD	No
WTRCRS_MAJ_STREAM_EVT	Measure-based event business table that can be used to display major rivers and streams from WTRCRS_LINE	As needed	Table	DNRP - WLRD	No
WTRCRS_MAJ_STREAM_LINE_EVT	Major rivers and streams across all basins	As needed	Vector	DNRP - WLRD	No
WW_TRAIL_SURVEY_DATA	Weed Watcher Program Trail Survey Weed Data	As needed	Vector	DNRP - WLRD	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
BCT_GENERAL_DISPLAY	Backcountry Trails for General Display	As needed	Vector	DNRP - PRD	No
FITNESS_CHALLENGE	2012 Fitness Challenge Location	As needed	Table	DNRP - PRD	No
MAINTDIST	King County Parks Maintenance Districts	As needed	Vector	DNRP - PRD	Yes
PARK	Parks in King County	As needed	Vector	DNRP - PRD	Yes
PARK_ADDRESS_TABLE	Park Addresses	As needed	Table	DNRP - PRD	No
PARK_AND_TRAIL_FACILITIES_TABLE	Park and Trail Facilities Information for Online Park Map (ParkFinder)	As needed	Table	DNRP - PRD	No
PARK_FACILITY	Park Facilities	As needed	Vector	DNRP - PRD	Yes
PARK_FACILITY_CARTO	Park Facility Cartographic Lookup Table	As needed	Table	DNRP - PRD	No
PARK_INFO_TABLE	Park information table	As needed	Table	DNRP - PRD	No
PARK_LABEL	Park Label Point	As needed	Vector	DNRP - PRD	Yes
PARK_PROPERTY	Park Property Information	As needed	Vector	DNRP - PRD	Yes
REGIONAL_TRAIL_GENERAL_DISPLAY	Generalized Regional Trails for Online Park Map (ParkFinder)	As needed	Vector	DNRP - PRD	No
RESOCOORD	King County Parks Resource Coodinator Boundaries	As needed	Vector	DNRP - PRD	Yes
TRAIL	Trails in King County	As needed	Vector	DNRP - PRD	Yes
SW_FACILITIES	Solid Waste Facilities Location	As needed	Vector	DNRP - SWD	Yes
SW_FACILITIES_PROP	Solid Waste Facility Property Information	As needed	Vector	DNRP - SWD	No
SW_RECYCLING_PROVIDERS	Recycling Providers Location	As needed	Vector	DNRP - SWD	No
WASTE_HAULER_SERVICE	Waste Hauler Service Areas	As needed	Vector	DNRP - SWD	Yes
FIRESTN	Fire Station Locations in King County	As needed	Vector	Public Health	Yes
FOOD_FACILITIES	Food Facilites - Multiple Classes - For King County	Quarterly	Vector	Public Health	Yes
HOSPITALS	Acute Service Hospitals in King County	Annually	Vector	Public Health	Yes
HPA_BLKGRP00	Health Planning Areas by Census 2000 Block Group	As needed	Vector	Public Health	No
HPA_TRACTS00	Health Planning Areas by Census 2000 Tract	As needed	Vector	Public Health	No
HPA_ZIPCODE	Health Planning Areas based on Zipcode	As needed	Vector	Public Health	No
ILLEGAL_LAB	Parcels with illegal laboratory findings	As needed	Table	Public Health	No
ILLEGAL_LAB_AREA_VIEW	Parcels with illegal laboratory findings	As needed	Vector	Public Health	No
MEDIC_UNITS	Medic Units in King County	As needed	Vector	Public Health	No
OSS_ASBUILT	Sewer System As-Built Drawings look-up table	As needed	Table	Public Health	No
PH_CLINICS	Public Health Clinics	As needed	Vector	Public Health	Yes
RESTAURANT_INSPECTIONS	Restaurant Inspections - King County and Seattle Public Health	Quarterly	Vector	Public Health	Yes
AARROUTES	Adopt-a-Road Routes	Daily	Vector	DOT - Roads	Yes
ANTIICER_ROUTE	Roads Anti-Ice Routes	Annually	Vector	DOT - Roads	Yes
BARRICADE	Barricades maintained by King County	Daily	Vector	DOT - Roads	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
	Roads Division				
BIKE_FACILITIES	King County Bike Facilities	Quarterly	Vector	DOT - Roads	Yes
BRIDGES	Bridges Maintained by King County	As needed	Vector	DOT - Roads	Yes
CATCHBASIN	Catch Basin maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
CHANGEABLEMESSAGESIGN	Changeable Message Sign	As needed	Vector	DOT - Roads	Yes
COMMON_INTEREST_BIKEMAP_LUT	Common Interest Points Bikemap	As needed	Table	DOT - Roads	No
CURB	Curb maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
DELINEATOR	Traffic Delineator	As needed	Vector	DOT - Roads	Yes
DITCH	Ditch maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
EVACUATIONROUTES	Evacuation Routes for Green River Valley	As needed	Vector	DOT - Roads	Yes
FENCE	Fence maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
FLASHER	Traffic Flasher	As needed	Vector	DOT - Roads	Yes
GUTTER	Gutters	As needed	Vector	DOT - Roads	No
HEADWALL	Headwall maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
HERITAGE_CORRIDORS	Heritage Corridors	As needed	Vector	DOT - Roads	Yes
JERSEYBARRIER	Jersey Barrier maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
LIFELINE_ROUTE	Lifeline Routes	Annually	Vector	DOT - Roads	Yes
MAINTENANCE_SHOPS	Road Services Maintenance Shops	As needed	Vector	DOT - Roads	Yes
MANHOLE	Manhole maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
MOWABLESLOPE	Mowable Slope maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
PAVEMENTMARKING	Pavement Markings	Daily	Vector	DOT - Roads	Yes
PIPE	Pipe maintained by King County Roads Division		Vector	DOT - Roads	Yes
PLANTERBOX	Planter Box maintained by King County Roads Division		Vector	DOT - Roads	Yes
PLANTERSTRIP	Planter Strip maintained by King County Roads Division		Vector	DOT - Roads	Yes
POLE	Traffic Pole	Continually	Vector	DOT - Roads	Yes
RADARSPEEDSIGN	Radar Speed Signs	As needed	Vector	DOT - Roads	Yes
RD_FACILITY	RD Faclitity	As needed	Vector	DOT - Roads	No
RETAININGWALL	Retaining Wall maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
ROADLOG	Roadlog - Street Centerlines	Daily	Vector	DOT - Roads	Yes
ROADLOG_BRIDGES	Bridge Name and Number Annotation Feature Class	As needed	Annotation	DOT - Roads	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ROADLOG_BRIDGES_50K	Bridge Name and Number (50K) Annotation Feature Class	As needed	Annotation	DOT - Roads	No
ROADLOG_CITY	City Name Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_CITY_50K	City Name (50K) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_COMMUNITY	Community Name Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_COMMUNITY_50K	Community Name (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_COUNTY_NAMES	County Names Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_HALFSTREET	Roadlog - Half Streets	As needed	Vector	DOT - Roads	Yes
ROADLOG_INDEX_100K	Road Index Map Number (100k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_LEGDIST	Legislative Districts Number Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_LEGDIST_50K	Legislative Districts Number (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_ONBOND	Roadlog - On Bond	As needed	Vector	DOT - Roads	Yes
ROADLOG_PARKS	Parks Name Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_PARKS_50K	Parks Name (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_PLSS_SEC	PLSS Section Number Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_PLSS_SEC_50K	PLSS Section Number (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_REFERENCE	Roadlog Reference Points	As needed	Vector	DOT - Roads	Yes
ROADLOG_ROADLOG_ID	Roadlog Number Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_ROADLOG_ID_50K	Roadlog Number (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_ST_INDEX	Street Name Index Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_ST_INDEX_50K	Street Name Index (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_STREAM	Stream Name Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_STREAM_50K	Stream Name (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_TNET	TNET Name Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_TNET_50K	TNET Name (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_TNET_HWYSYM	Freeway/Highway Shield Grouped Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_TNET_HWYSYM_100K	Freeway/Highway Shield (100k) Grouped Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_TNET_HWYSYM_50K	Freeway/Highway Shield (50k) Grouped Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADLOG_WATER	Water Name Annotation Feature Class	Daily	Annotation	DOT - Roads	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
ROADLOG_WATER_50K	Water Name (50k) Annotation Feature Class	Daily	Annotation	DOT - Roads	No
ROADS_SERVICE_LEVEL	Roads Service Levels	As needed	Vector	DOT - Roads	Yes
ROADSEGMENT_ROUTE	Road Segment Routes	Daily	Vector	DOT - Roads	No
ROADUTILITYINSPECTION	Road Utility Inspection Areas	As needed	Vector	DOT - Roads	Yes
ROADVACATION	Road Vacation	As needed	Vector	DOT - Roads	Yes
RSD_MAINTENANCE_DIVISION	Road Maintenance Divisions	As needed	Vector	DOT - Roads	No
RSD_MAINTENANCE_SUBDIVISION	Road Maintenance Subdivisions	As needed	Vector	DOT - Roads	No
SANDING_ROUTE	Roads Sanding Routes	Annually	Vector	DOT - Roads	Yes
SEAWALL	Seawall maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
SHOULDER	Shoulders maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
SIDEWALK	Sidewalk maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
SIGN	Traffic Signs	Daily	Vector	DOT - Roads	Yes
SIGNAL	Traffic Signals	As needed	Vector	DOT - Roads	Yes
SPEEDBUMP	Speed Bump maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
STRIPING	Roadway Striping (Pavement Marking line)	Continually	Vector	DOT - Roads	Yes
TC_LEG	Traffic Count Leg	Annually	Table	DOT - Roads	Yes
TC_YEAR	Traffic Count Year	Annually	Table	DOT - Roads	Yes
TEMP_DRAINAGEOTHER	(Temp) DrainageOther 2D line	As needed	Vector	DOT - Roads	No
TEMP_OUTFALL	(Temp) Outfall 2D point	As needed	Vector	DOT - Roads	No
TRAFFIC_COUNT_LOCATIONS	Traffic Count Locations	Annually	Vector	DOT - Roads	Yes
TRAFFICCAMERA	King County and WSDOT Traffic Cameras	Monthly	Vector	DOT - Roads	Yes
TRAFFICCURB	Traffic Curb maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
TRAFFICISLAND	Traffic Island maintained by King County Roads Division	As needed	Vector	DOT - Roads	Yes
TRANS_NEED	Trans Need	Annually	Vector	DOT - Roads	Yes
TRANS_NEED	Trans Need	Annually	Vector	DOT - Roads	Yes
TRASHRACK	Trashracks	As needed	Vector	DOT - Roads	No
TRAVELSHEDS	Concurrency Travel Shed	As needed	Vector	DOT - Roads	Yes
ADVERSE_WEATHER_DISTRICTS	Metro Adverse Weather Districts in King County	As needed	Vector	DOT- Transit	Yes
BENSON_LINE_STATIONS	Metro Benson Line Stations in King County	As needed	Vector	DOT- Transit	Yes
BIKE_LOCKERS	King County Transit Facilities With Bicycle Lockers	As needed	Vector	DOT- Transit	Yes
BUS_BASES	Metro Bus Bases in King County	As needed	Vector	DOT- Transit	Yes
BUSINESS	Business	As needed	Vector	DOT- Transit	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
BUSSTOP	Metro Bus Stops in King County	As needed	Vector	DOT- Transit	Yes
CHARGING_STATIONS	King County Transit Facilities with Electrical Outlets	As needed	Vector	DOT- Transit	Yes
COMFORT_STATIONS	Metro Comfort Stations in King County	Quarterly	Vector	DOT- Transit	Yes
DART	Metro's Dial-A-Ride Transit (DART) in King County	As needed	Vector	DOT- Transit	Yes
EMITTER	Metro Emitters in King County	Daily	Vector	DOT- Transit	Yes
FACILITY_NONREVENUE	Metro Facility Non Revenue in King County	Irregular	Vector	DOT- Transit	Yes
FACILITY_REVENUE	Metro Facility Revenue in King County	Irregular	Vector	DOT- Transit	Yes
FAREZONE	Metro Transit Fare Zones in King County	As needed	Vector	DOT- Transit	Yes
FREEWAY_SPEEDS_ACTUAL	Speeds (Actual) Collected from KC Transit Access Vans on Freeways and Major Highways	Quarterly	Vector	DOT- Transit	Yes
LANDMARK	King County Landmarks	As needed	Vector	DOT- Transit	Yes
LANDMARK_ALIAS	Landmark Alias	As needed	Table	DOT- Transit	Yes
NEIGHBORHOOD	Metro Neighborhoods in King County	As needed	Vector	DOT- Transit	Yes
NEIGHBORHOOD_CENTERS	King County Neighborhood Centers in King County	As needed	Vector	DOT- Transit	Yes
ORCA_PASSPORT_ZONES	King County Metro ORCA Passport Zone	As needed	Vector	DOT- Transit	Yes
PARKRIDE	King County Metro Park and Ride Lots	Quarterly	Vector	DOT- Transit	Yes
PATTERN_REV_ALL	Metro Pattern Revenue All in King County	Daily	Vector	DOT- Transit	Yes
PATTERN_REV_CUR	Metro Pattern Revenue Current in King County	Daily	Vector	DOT- Transit	Yes
PATTERN_REV_NXT	Metro Transit Pattern Revenue Next in King County	Daily	Vector	DOT- Transit	Yes
PATTERN_STOPS_INLINE_CUR	Metro Pattern Stop Inline Current in King County	Daily	Vector	DOT- Transit	Yes
PATTERN_STOPS_INLINE_NXT	King County Metro Pattern Stop Inline Next	Daily	Vector	DOT- Transit	Yes
PATTERN_STOPS_OFFSET_CUR	King County Metro Pattern Stops Offset Current	Daily	Vector	DOT- Transit	Yes
PATTERN_STOPS_OFFSET_NXT	King County Metro Pattern Stop Offset Next	Daily	Vector	DOT- Transit	Yes
ROUTES	Metro Routes in King County	Daily	Vector	DOT- Transit	Yes
SERVICE_PATTERN_TIMEPOINT	Metro Service Pattern Timepoints in King County	Daily	Table	DOT- Transit	Yes
STOPS_INLINE_ALL	King County Metro Stop Inline Current	Daily	Vector	DOT- Transit	Yes
STOPS_OFFSET_ALL	King County Metro Stops Offset All	Daily	Vector	DOT- Transit	Yes
SUB_STATIONS	Metro Sub Stations in King County	Annually	Vector	DOT- Transit	Yes
TIMEPOINT	Metro Timepoints in King County	Daily	Vector	DOT- Transit	Yes
TNAME	Metro TNAME Table in King County	Daily	Table	DOT- Transit	No
TPIPATH_DHD_ALL	King County Metro Tpi_Path Deadhead All (Non Revenue Service Routes)	Daily	Vector	DOT- Transit	Yes
TPIPATH_DHD_CUR	King County Metro Tpipath Deadhead Current (Non Revenue Service Routes)	Daily	Vector	DOT- Transit	Yes

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
TPIPATH_DHD_NXT	King County Metro Tpipath Deadhead Next (Non Revenue Service Routes)	Daily	Vector	DOT- Transit	Yes
TPIPATH_REV_ALL	King County Metro Tpipath Revenue All (Revenue Service Routes)	Daily	Vector	DOT- Transit	Yes
TPIPATH_REV_CUR	King County Metro Tpipath Revenue Current (Revenue Service Routes)	Daily	Vector	DOT- Transit	Yes
TPIPATH_REV_NXT	King County Metro Tpipath Revenue Next (Revenue Service Routes)	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK	Metro Transportation Network (TNET) in King County	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_BIKE	Metro Transportation Network (TNET) in King County for Bicycle Mode	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_BUS	Metro Transportation Network (TNET) in King County for Bus Mode	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_CAR	Metro Transportation Network (TNET) in King County for Car Mode	Vector	DOT- Transit	Yes	
TRANS_NETWORK_EQUEST	Metro Transportation Network (TNET) in King County for Equestrian Mode	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_FERRY	Metro Transportation Network (TNET) in King County for Ferry Mode	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_PED	Metro Transportation Network (TNET) in King County for Pedestrian Mode	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_RAIL	Metro Transportation Network (TNET) in King County for Railway Mode	Daily	Vector	DOT- Transit	Yes
TRANS_NETWORK_US_STREETS_DUAL_RANGES_GCS	Address Locator for TRANS_NETWORK_LINE US Streets Dual Ranges style	Continually	Address Locator	DOT- Transit	No
TRANS_TLINK_TMODE	Metro Transportation Network (TNET) Modes in King County	Daily	Table	DOT- Transit	Yes
TRANSIT_CENTERS	King County Metro Transit Centers	As needed	Vector	DOT- Transit	Yes
TRANSIT_PLANNING_BOUNDARIES	Metro Transit Planning Boundaries in King County	As needed	Vector	DOT- Transit	Yes
TRANSIT_REROUTES	Metro Transit Reroutes in King County	Annually	Vector	DOT- Transit	Yes
TROLLEY	Metro Trolley in King County	Annually	Vector	DOT- Transit	Yes
TUNNEL	Metro Tunnel in King County	Irregular	Vector	DOT- Transit	Yes
AIRPORTS	Airports in King County	As needed	Vector	DOT-Airport	Yes
NOISE_CONTOURS_1DB	Noise Contours (One Decibel) for King County International Airport	As needed	Vector	DOT-Airport	Yes
AIRDST	King County Airport District	As needed	Vector	KC Elections	Yes
CEMDST	King County Cemetery District	As needed	Vector	KC Elections	Yes
CITYDST	Incorporated Areas of King County	As needed	Vector	KC Elections	Yes
CONGDST	Congressional Districts in King County	As needed	Vector	KC Elections	Yes
DIRDST	Seattle School Board Director Districts	As needed	Vector	KC Elections	Yes
DSTCODE	District Codes	As needed	Vector	KC Elections	Yes
EARLYINTERVENTIONPROVIDERS	Early Intervention Providers in King County	As needed	Vector	KC Elections	No

Name	Description	Update Frequency	Data Type	Steward Agency	Data Portal
FIRDST	Fire Protection Districts of King County	As needed	Vector	KC Elections	Yes
HSPDST	Hospital Districts	As needed	Vector	KC Elections	Yes
JUDDST	King County District Courts	As needed	Vector	KC Elections	Yes
KCCDST	Metropolitan King County Council	As needed	Vector	KC Elections	Yes
LEGDST	Washington State Legislative Districts in King County	As needed	Vector	KC Elections	Yes
LIBDST	King County Rural Library District	As needed	Vector	KC Elections	Yes
MS1DST	Miscellaneous 1 Districts	As needed	Vector	KC Elections	Yes
MS2DST	Miscellaneous 2 Districts	As needed	Vector	KC Elections	No
MUNDST	Municipal Districts	As needed	Vector	KC Elections	Yes
PRKDST	Park Districts in King County	As needed	Vector	KC Elections	Yes
RTADST	Regional Transit District	As needed	Vector	KC Elections	Yes
SCHDST	School Districts in King County	As needed	Vector	KC Elections	Yes
SWRDST	Sewer Districts	As needed	Vector	KC Elections	Yes
VOTDST	Voting Districts of King County	As needed	Vector	KC Elections	Yes
VOTDST_2014	2014 Precinct (temporary data)	None planned	Vector	KC Elections	No
WSDST	Water and Sewer Districts of King County	As needed	Vector	KC Elections	Yes
WTRDST	Water Districts of King County	As needed	Vector	KC Elections	Yes
KCP_LOC	Police Station Locations in King County	As needed	Vector	KCSO	Yes
PATROL_DISTRICTS	King County Sheriff Patrol Districts	As needed	Vector	KCSO	No
NSA	No Shooting Areas	As needed	Vector	KC Council	No

5.3.2   Enterprise Raster Data

▪ Table 5.3.2 contains listings of raster data stored in the Spatial Data Warehouse. The "Group" column provides a general categorization for the data sets. The "Access" column indicates whether or not King County owns the data outright. Licensed data, so labeled in the Access column, can only be redistributed with the permission of the licensor.

Name	Description	Group	Access
LAST RETURN LIDAR ELEVATION ASCII	Last return lidar elevation data as variably-spaced ascii pts	Elevation	No Use Restriction
LIDAR COLORIZED GROUND HILLSHADE - 38 FT GSD	Color hillshade derived from gridded elevation models for bare-earth with green to yellow ramp	Elevation	No Use Restriction
LIDAR COLORIZED GROUND HILLSHADE -50 FT GSD	Color hillshade derived from gridded elevation models for bare-earth with green to brown ramp	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL ASCII	Bare earth elevation model derived from variably spaced ascii pts	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL ASPECT - 30 FT GSD	Bare-earth floating point aspect grid	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL CONTOURS - 5 FT CI	Elevation contours derived from gridded elevation models for bare-earth	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL	Elevation contours clipped and edgematched to	Elevation	No Use Restriction

Name	Description	Group	Access
CONTOURS - NEATLINE EDGEMATCHED	twnshp-rge boundaries		
LIDAR DIGITAL GROUND MODEL GRID - 6 FT GSD	Bare earth elevation model derived from variably spaced ascii pts	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL HILLSHADE - 6 FT GSD	Bare earth elevation model grayscale hillshade.	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL PT DENSITY	Generalized density analysis of digital ground lidar elevation points	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL SLOPE - 30 FT GSD	Bare-earth floating point slope grid in Degrees	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL STEEP SLOPES - 30 FT GSD	Lidar digital ground model slope greater than or equal to 40 percent	Elevation	No Use Restriction
LIDAR DIGITAL GROUND MODEL TIN	Bare earth elevation model derived from variably spaced ascii pts	Elevation	No Use Restriction
LIDAR DIGITAL SURFACE MODEL ASCII	Top of vegetation; first-return elevation model from variably-spaced ascii pts	Elevation	No Use Restriction
LIDAR DIGITAL SURFACE MODEL GRID - 6 FT GSD	Top of vegetation; first-return elevation model from variably-spaced ascii pts	Elevation	No Use Restriction
LIDAR DIGITAL SURFACE MODEL HILLSHADE - 6 FT GSD	First return elevation model grayscale hillshade.	Elevation	No Use Restriction
LIDAR DIGITAL SURFACE MODEL TIN	Top of vegetation; first-return elevation model from variably-spaced ascii pts	Elevation	No Use Restriction
PUGET SOUND 30-FT SEAMLESS BATHYMETRY - 30 FT GSD	Combined bathymetry and elevation data for Puget Sounds Lowlands at 30 foot resolution	Elevation	No Use Restriction
PUGET SOUND BATHYMETRY COLOR HILLSHADE -30 FT GSD	Color hillshade derived from Puget Sound combined bathymetry and elevation	Elevation	No Use Restriction
PUGET SOUND BATHYMETRY CONTOUR - 20 FT CI	20-foot contour isolines derived from Puget Sound combined bathymetry and elevation	Elevation	No Use Restriction
PUGET SOUND BATHYMETRY CONTOUR - 50 FT CI	50-foot contour isolines derived from Puget Sound combined bathymetry and elevation	Elevation	No Use Restriction
PUGET SOUND BATHYMETRY GRAY HILLSHADE - 30 FT GSD	Greyscale hillshade derived from Puget Sound combined bathymetry and elevation	Elevation	No Use Restriction
SHUTTLE RADAR TOPOLOGY ELEVATION - 86 FT GSD	Space shuttle radar-derived elevation model	Elevation	No Use Restriction
SHUTTLE RADAR TOPOLOGY HILLSHADE - 86 FT GSD	Greyscale hillshade derived from shuttle-derive elevation model	Elevation	No Use Restriction
STATEWIDE COLORIZED HILLSHADE - 900 FT GSD	Colorized hillshade from USGS 28 meter (98 feet) DEM representing elevation range for entire state	Elevation	No Use Restriction
STATEWIDE DEM GREYSCALE HILLSHADE - 98 FT GSD	Greyscale hillshade created from USGS 28 meter (98 feet) DEM for entire Washington State	Elevation	No Use Restriction
STATEWIDE USGS DEM - 98 FT GSD	USGS 28 meter (98 feet) Digital Elevation Model for entire Washington State	Elevation	No Use Restriction
USGS DEM - CARTOGRAPHIC -70 FT GSD	Resampled and smoothed Digital Elevation Model for entire Puget Sound area for cartographic apps	Elevation	No Use Restriction
USGS DEM CONTOURS - 500 FT CI	Generarlized contours derived from lower-resolution USGS DEM	Elevation	No Use Restriction
USGS DEM HILLSHADE - 1000 FT GSD	Greyscale hillshade derived from lower-resolution USGS DEM via State DNR - Washington Area	Elevation	No Use Restriction
USGS DEM HILLSHADE - 86 FT	Greyscale hillshade derived from lower-resolution	Elevation	No Use Restriction

Name	Description	Group	Access
GSD	USGS DEM - Puget Sound Area		
USGS DEM HILLSHADE - CARTOGRAPHIC -70 FT GSD	Resampled and smoothed DEM grayscale hillshade for entire Puget Sound area for cartographic apps	Elevation	No Use Restriction
USGS DIGITAL ELEVATION MODEL (DEM) - 86 FT GSD	Lower resolution USGS digital elevation model	Elevation	No Use Restriction
USGS NATIONAL ELEVATION DATABASE (NED) -28 FT GSD	1/3 arc second higher-resolution USGS digital elevation data by county tile	Elevation	No Use Restriction
USGS NED GROUND HILLSHADE FOR KING CO- 28 FT GSD	Greyscale hillshade derived from higher-resolution USGS DEM; King County only.	Elevation	No Use Restriction
USGS NED GROUND HILLHSHADE; FOUR COUNTY AREA - 28 FT GSD	Greyscale hillshade derived from higher-resolution USGS DEM; Four County area.	Elevation	No Use Restriction
1970 LANDCOVER WITH 1990 POP UPDATES - 328 FT GSD	Land use data from 1970 refined with 1990 population data to indicate new residential development	Landcover	No Use Restriction
1970 LANDCOVER WITH 2000 POP UPDATES - 328 FT GSD	Land use data from 1970 refined with 2000 population data to indicate new residential development	Landcover	No Use Restriction
1971-2000 AVERAGE ANNUAL MAXIMUM TEMPERATURE FOR KING COUNTY - 2500 FT GSD	Annual Average Maximum Temperature - 1971 to 2000 in Fahrenheit - King County	Landcover	No Use Restriction
1971-2000 AVERAGE ANNUAL MAXIMUMTEMPERATURE FOR WASHINGTON - 2500 FT GSD	Annual Average Maximum Temperature - 1971 to 2000 in Fahrenheit - Washington	Landcover	No Use Restriction
1971-2000 AVERAGE ANNUAL MINIMUM TEMPERATURE FOR KING COUNTY - 2500 FT GSD	Annual Average MinimumTemperature - 1971 to 2000 in Fahrenheit - King County	Landcover	No Use Restriction
1971-2000 AVERAGE ANNUAL MINIMUM TEMPERATURE FOR WASHINGTON - 2500 FT GSD	Annual Average Minimum Temperature - 1971 to 2000 in Fahrenheit - Washington	Landcover	No Use Restriction
1971-2000 AVERAGE MONTHLY PRECIPITATION FOR KING COUNTY - 2500 FT GSD	PRISM Climate Group - Average Annual Precipitation in inches - King County	Landcover	No Use Restriction
1971-2000 AVERAGE MONTHLY PRECIPITATION FOR WASHINGTON - 2500 FT GSD	PRISM Climate Group - Average Annual Precipitation in inches - Washington	Landcover	No Use Restriction
1971-2000 JANUARY AVERAGE MINIMUM TEMPERATURE FOR KING COUNTY - 2500 FT GSD	January Average Minimum Temperature - 1971 to 2000 in Fahrenheit - King County	Landcover	No Use Restriction
1971-2000 JANUARY AVERAGE MINIMUM TEMPERATURE FOR WASHINGTON - 2500 FT GSD	January Average Minimum Temperature - 1971 to 2000 in Fahrenheit - Washington	Landcover	No Use Restriction
1971-2000 JULY AVERAGE MAXIMUM TEMPERATURE FOR KING COUNTY - 2500 FT GSD	July Average Maximum Temperature - 1971 to 2000 in Fahrenheit - King County	Landcover	No Use Restriction
1971-2000 JULY AVERAGE MAXIMUM TEMPERATURE FOR WASHINGTON - 2500 FT GSD	July Average Maximum Temperature - 1971 to 2000 in Fahrenheit - Washington	Landcover	No Use Restriction
1988-1991 FOREST CANOPY FOR WESTERN WASHINGTON - 82 FT GSD	Pacific Meridian Forest Canopy (seral stage) Analysis using 1988 and 1991 Landsat imagery	Landcover	No Use Restriction
1991 LANDCOVER FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1991 Base Landcover	Landcover	No Use Restriction

Name	Description	Group	Access
1991 LANDSAT LANDCOVER - 98 FT GSD	University of Washington 6-class landcover classification	Landcover	No Use Restriction
1991 PERCENT FOREST CANOPY FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1991 Forest Canopy Percent	Landcover	No Use Restriction
1991 PERCENT IMPERVIOUS SURFACE FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1991 Impervious Surface Percent	Landcover	No Use Restriction
1991-1996 LANDCOVER CHANGE FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1991 to 1996 Change Detection	Landcover	No Use Restriction
1991-2001 LANDCOVER CHANGE FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1991 to 2001 Change Detection	Landcover	No Use Restriction
1992 LANDSAT LANDCOVER - 98 FT GSD	Dual 9-category and 21 subcategory landcover classification	Landcover	No Use Restriction
1992-2001 LANDSAT WET AREA CHANGE - 98 FT GSD	Change detection analysis of wet area change to other landcover classes	Landcover	No Use Restriction
1992-ERA CCAP FOREST FRAGMENTATION DATA	Coastal Change Analysis Program Forest Fragmentation Data for King County - Year 1992	Landcover	No Use Restriction
1994-2001 LANDSAT FOREST LOSS - 84 FT GSD	Change detection analysis where forest canopy changed to other classes	Landcover	No Use Restriction
1994-2001 LANDSAT IMPERVIOUS GROWTH - 84 FT GSD	Change detection analysis where any non-imp landcover class changed	Landcover	No Use Restriction
1995 COASTAL CHANGE ANALYSIS PROGRAM (CCAP) - 98 FT GSD	Coastal Change Analysis Program 1995 Land Cover	Landcover	No Use Restriction
1995 LANDSAT LANDCOVER - 82 FT GSD	16-class landcover classification	Landcover	No Use Restriction
1995-2000 COASTAL CHANGE ANALYSIS PROGRAM CHANGE - 98 FT GSD	Coastal Change Analysis Program 1995 to 2000 Land Cover Change	Landcover	No Use Restriction
1996 LANDCOVER FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1996 Base Landcover	Landcover	No Use Restriction
1996 PERCENT FOREST CANOPY FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1996 Forest Canopy Percent	Landcover	No Use Restriction
1996 PERCENT IMPERVIOUS SURFACE FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1996 Impervious Surface Percent	Landcover	No Use Restriction
1996-2001 LANDCOVER CHANGE FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 1996 to 2001 Change Detection	Landcover	No Use Restriction
1996-ERA CCAP FOREST FRAGMENTATION DATA	Coastal Change Analysis Program Forest Fragmentation Data for King County - Year 1996	Landcover	No Use Restriction
1998 LANDSAT LANDCOVER - 98 FT GSD	University of Washington 7-class Rapid Landcover Classification project	Landcover	No Use Restriction
2000 COASTAL CHANGE ANALYSIS PROGRAM (CCAP) - 98 FT GSD	Coastal Change Analysis Program 2000 Land Cover	Landcover	No Use Restriction
2000 IMPERVIOUS/IMPACTED	High resolution impervious and impacted surface	Landcover	No Use Restriction

Name	Description	Group	Access
SURFACE - 2 FT GSD	landcover		
2001 LANDCOVER FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 2001 Base Landcover	Landcover	No Use Restriction
2001 LANDSAT ESA/SAO LANDCOVER - 84 FT GSD	ESA/SAO 11-class landcover classification	Landcover	No Use Restriction
2001 NLCD IMPERVIOUS PERCENT - 98 FT GSD	National Landcover Database 2001 percent impervious surface	Landcover	No Use Restriction
2001 NLCD LANDCOVER - 98 FT GSD	National Landcover Database 2001 Land Cover	Landcover	No Use Restriction
2001 NLCD TREE CANOPY PERCENT - 98 FT GSD	National Landcover Database 2001 percent tree canopy	Landcover	No Use Restriction
2001 PERCENT FOREST CANOPY FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 2001 Forest Canopy Percent	Landcover	No Use Restriction
2001 PERCENT IMPERVIOUS SURFACE FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington Land Cover Change Analysis - 2001 Impervious Surface Percent	Landcover	No Use Restriction
2001-ERA CCAP FOREST FRAGMENTATION DATA	Coastal Change Analysis Program Forest Fragmentation Data for King County - Year 2001	Landcover	No Use Restriction
2002 LANDSAT LANDCOVER - 98 FT GSD	17-class landcover analysis of the greater Puget Sound region - PS Regional Synthesis Model	Landcover	No Use Restriction
2006 NLCD LANDCOVER FOR KING COUNTY - 98 FT GSD	National Landcover Database - 2006 Landcover - 16 class - King County	Landcover	No Use Restriction
2006 NLCD LANDCOVER FOR WASHINGTON - 98 FT GSD	National Landcover Database - 2006 Landcover - 16 class - Washington	Landcover	No Use Restriction
2006 NLCD PERCENT DEVELOPED IMPERVIOUS SURFACE FOR KING COUNTY -98 FT GSD	National Landcover Database - 2006 Percent Developed Impervious Surface - King County	Landcover	No Use Restriction
2006 NLCD PERCENT DEVELOPED IMPERVIOUS SURFACE FOR WASHINGTON -98 FT GSD	National Landcover Database - 2006 Percent Developed Impervious Surface - Washington	Landcover	No Use Restriction
2006-2011 NLCD % DEVELOPED IMPERVIOUS CHANGE FOR WA - 98 FT GSD	National Landcover Database 2006-2011 Percent Developed Impervious Change (2011 Edition) for WA	Landcover	No Use Restriction
2006-ERA CCAP FOREST FRAGMENTATION DATA	Coastal Change Analysis Program Forest Fragmentation Data for King County - Year 2006	Landcover	No Use Restriction
2007 LANDCOVER FOR KING AND SW SNOHOMISH COUNTIES - 85 FT GSD	11-class Landcover Classification for King and SW Snohomish Counties	Landcover	No Use Restriction
2009 IMPERVIOUS/IMPACTED SURFACE - 2FT GSD	High resolution impervious and impacted surface landcover updated with other source data to 2009	Landcover	No Use Restriction
2011 LANDCOVER FOR WESTERN WASHINGTON - 98 FT GSD	Western Washington CCAP Land Cover (25 categories)- 2011	Landcover	No Use Restriction
2011 NLCD % DEVELOPED IMPERVIOUS SURFACE FOR WA - 98 FT GSD	National Landcover Database - 2011 Percent Developed Impervious Surface - King County	Landcover	No Use Restriction
2011-ERA CCAP FOREST FRAGMENTATION DATA - 98 FT GSD	Coastal Change Analysis Program Forest Fragmentation Data for Western Washington - Year 2011	Landcover	No Use Restriction

Name	Description	Group	Access
MAN MADE STRUCTURES WITH HEIGHT-6FT GSD	Continuous grid with building classes symbolized to show building heights	Landcover	No Use Restriction
VEGETATION HEIGHT-6FT GSD	Continuous grid with vegetation classes symbolized to show plant heights	Landcover	No Use Restriction
1936 WEST KING COUNTY PANCHROMATIC ORTHOPHOTO - 1 FT GSD	Panchromatic 1-foot GSD orthophotography	OrthoImagery	Licensed
1993 SEATTLE PANCHROMATIC ORTHOPHOTO - 1 FT GSD	Panchromatic 1-foot GSD orthophotography	OrthoImagery	Licensed
1996 NIES NATURAL COLOR ORTHOPHOTO - 3.28 FT GSD	Natural color 1-meter (3.28 ft) GSD orthophotography	OrthoImagery	No Use Restriction
1998 WADNR PANCHROMATIC ORTHOPHOTO - 3 FT GSD	Panchromatic 3-foot GSD orthophotography.	OrthoImagery	Licensed
2000 DAIS COLOR INFRARED ORTHOPHOTO - 1.64 FT GSD	Color infrared 0.5-meter (1.64 ft) GSD orthophotography	OrthoImagery	Licensed
2000 DAIS NATURAL COLOR ORTHOPHOTO - 1.64 FT GSD	Natural color 0.5-meter (1.64 ft) GSD orthophotography	OrthoImagery	Licensed
2000 EMERGE COLOR INFRARED ORTHOPHOTO - 2 FT GSD	Color infrared 2-foot GSD orthophotography	OrthoImagery	No Use Restriction
2000 EMERGE NATURAL COLOR ORTHOPHOTO - 2 FT GSD	Natural color derivative 2-foot GSD orthophotography	OrthoImagery	No Use Restriction
2000 IKONOS NATURAL COLOR ORTHOPHOTO - 15 FT GSD	Natural color satellite-derived 15-ft orthophotography	OrthoImagery	Licensed
2000 SPACE IMAGING NATURAL COLOR COMPOSITE - 4 FT GSD	4-foot GSD natural color composite of all Space Imaging orthophotography.	OrthoImagery	Licensed
2002 KING COUNTY NATURAL COLOR ORTHOPHOTO - 1 FT GSD	Natural color 1-ft GSD ESA/SAO orthophotography.	OrthoImagery	No Use Restriction
2002 USGS NATURAL COLOR ORTHOPHOTO - 0.98 FT GSD	Natural color Hi-resolution (0.098-ft GSD) urban area orthophotography.	OrthoImagery	No Use Restriction
2005 AERIALS EXPRESS NATURAL COLOR ORTHOPHOTO - 1 FT GSD	Natural color 1-ft GSD urban/suburban area (includes 1.5 ft img resampled to 1-ft)	OrthoImagery	Licensed
2005 SEATTLE NATURAL COLOR ORTHOPHOTO - 0.5 FT GSD	Natural color 0.5-foot GSD orthophotography for City of Seattle limits only	OrthoImagery	Licensed
2007 AERIAL IMAGERY MOSAIC BASE MAP FOR WESTERN WA	2007 aerial imagery mosaic basemap of western WA	OrthoImagery	No Use Restriction
2007 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Natural color 6 inch GSD imagery for western KC (2007)	OrthoImagery	Licensed
2007 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Natural color 1 foot GSD orthoimagery for eastern KC (2007)	OrthoImagery	Licensed
2009 AERIALS EXPRESS COLOR INFRARED ORTHOPHOTO -1 FT GSD	Color Infrared 1-ft GSD urban/suburban areas for King and SW Snohomish Counties	OrthoImagery	Licensed
2009 ECITYGOV ALLIANCE NATURAL COLOR ORTHOPHOTO - 0.25 FT GSD	Natural color 3-inch GSD imagery for northwest King County cities	OrthoImagery	Licensed
2009 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Natural color 6 inch GSD imagery for western KC (2009)	OrthoImagery	Licensed

Name	Description	Group	Access
2009 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Natural color 1 foot GSD orthoimagery for eastern KC (2009)	OrthoImagery	Licensed
2009 PICTOMETRY NATURAL COLOR OBLIQUE - COMMUNITY - 1.0 FT GSD	East King County 1.0-foot GSD oblique and vertical imagery (2009)	OrthoImagery	Licensed
2009 PICTOMETRY NATURAL COLOR OBLIQUE - NEIGHBORHOOD - 0.5 FT GSD	West King County 0.5-foot GSD oblique and vertical imagery (2009)	OrthoImagery	Licensed
2010 KING COUNTY COLOR INFRARED ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Color Infrared 6 inch GSD imagery for western KC (2010)	OrthoImagery	Licensed
2010 KING COUNTY COLOR INFRARED ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Color Infrared 12 inch GSD imagery for eastern KC (2010)	OrthoImagery	Licensed
2010 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Natural color 6 inch GSD imagery for western KC (2010)	OrthoImagery	Licensed
2010 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.5 AND 1.0 FT GSD	Natural color 12 inch GSD imagery for eastern KC (2010)	OrthoImagery	Licensed
2011 PICTOMETRY NATURAL COLOR NADIR - COMMUNITY - 1.0 FT GSD	East King County 1.0-foot GSD nadir (vertical) natural color imagery (2011)	OrthoImagery	Licensed
2011 PICTOMETRY NATURAL COLOR NADIR - NEIGHBORHOOD - 0.5 FT GSD	West King County 0.5-foot GSD nadir (vertical) natural color imagery (2011)	OrthoImagery	Licensed
2011 PICTOMETRY NATURAL COLOR NADIR MOSAIC - 1 METER GSD	Full King County mosaic of 1 meter resolution section tiles (Pictometry 2011)	OrthoImagery	Licensed
2011 PICTOMETRY NATURAL COLOR OBLIQUE - COMMUNITY - 1.0 FT GSD	East King County 1.5-foot GSD oblique (2-way) natural color imagery (2011)	OrthoImagery	Licensed
2011 PICTOMETRY NATURAL COLOR OBLIQUE - NEIGHBORHOOD - 0.5 FT GSD	West King County 0.5-foot GSD oblique (4-way) natural color imagery (2011)	OrthoImagery	Licensed
2012 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.25 0.50 AND 1.00 FT GSD	Natural color 0.25-foot GSD imagery for urbanized area of western King County	OrthoImagery	Licensed
2012 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.25 0.50 AND 1.00 FT GSD	Natural color 0.50-foot GSD imagery for unincorporated western King County	OrthoImagery	Licensed
2012 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.25 0.50 AND 1.00 FT GSD	Natural color 1.00-foot GSD imagery for eastern King County	OrthoImagery	Licensed
2013 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.33 AND 0.75 FT GSD	Natural color 4 inch GSD imagery for western KC (2013)	OrthoImagery	Licensed
2013 KING COUNTY NATURAL COLOR ORTHOPHOTO - 0.33 AND 0.75 FT GSD	Natural color 9 inch GSD orthoimagery for eastern KC (2013)	OrthoImagery	Licensed
2013 PICTOMETRY NATURAL COLOR OBLIQUE - COMMUNITY - 0.75 FT GSD	East King County 0.75-foot GSD oblique and vertical imagery (2013)	OrthoImagery	Licensed

Name	Description	Group	Access
2013 PICTOMETRY NATURAL COLOR OBLIQUE - NEIGHBORHOOD - 0.33 FT GSD	West King County 0.33-foot GSD oblique and vertical imagery (2013)	OrthoImagery	Licensed
WESTERN KING COUNTY LOCATOR MAP - IMAGE AND VECTOR COMPOSITE	Rasterized copy of generic version of Enterprise Seattle Map with key location information	OrthoImagery	No Use Restriction
WESTERN WA GENERIC BASE MAP - CITIES; ROADS; ETC. - 1.0 FT GSD	General-purpose; general-reference; ArcGIS Server cached basemap of King County; Washington; in the State Plane coordinate system used by KCGIS.	OrthoImagery	No Use Restriction
1987 LANDSAT MULTIBAND SCENE - 66 FT GSD	3-band Thematic Mapper scene (September 7)	OtherImagery	No Use Restriction
1990 LANDSAT MULTIBAND SUMMER SCENE - 93 FT GSD	6-band Thematic Mapper scene (September 22)	OtherImagery	No Use Restriction
1991 SPOT MULTIBAND SCENE - 66 FT GSD	3-band SPOT image	OtherImagery	No Use Restriction
1994 LANDSAT MULTIBAND SUMMER SCENE - 82 FT GSD	6-band Thematic Mapper scene (July 31)	OtherImagery	No Use Restriction
1995 LANDSAT MULTIBAND SCENE - 82 FT GSD	7-band Landsat scene	OtherImagery	No Use Restriction
1996 LANDSAT MULTIBAND SUMMER SCENE - 82 FT GSD	6-band Thematic Mapper scene (August 21)	OtherImagery	No Use Restriction
1999 LANDSAT MULTIBAND SCENE - 98 FT GSD	4-band Thematic Mapper scene	OtherImagery	No Use Restriction
1999 LANDSAT PAN-SHARPENED MULTIBAND SCENE - 49 FT GSD	4-band Thematic Mapper scene (pan-sharpened)	OtherImagery	No Use Restriction
2000 LANDSAT MULTIBAND SUMMER SCENE - 83 FT GSD	6-band Thematic Mapper scene (July 7)	OtherImagery	No Use Restriction
2000 LANDSAT MULTIBAND WINTER SCENE - 82 FT GSD	6-band Thematic Mapper scene (January 29)	OtherImagery	No Use Restriction
2000 LANDSAT PANCHROMATIC SUMMER SCENE - 42 FT GSD	1-band Thematic Mapper scene (band 8 panchromatic-July 7)	OtherImagery	No Use Restriction
2000 LANDSAT PANCHROMATIC WINTER SCENE - 41 FT GSD	1-band Thematic Mapper scene (band 8 panchromatic-January 29)	OtherImagery	No Use Restriction
2001 LANDSAT MULTIBAND SUMMER SCENE - 82 FT GSD	6-band Thematic Mapper scene (August 11)	OtherImagery	No Use Restriction
2002 LANDSAT MULTIBAND LATE WINTER SCENE - 82 FT GSD	6-band Enhanced Thematic Mapper scene (April 24)	OtherImagery	No Use Restriction
2002 LANDSAT MULTIBAND SUMMER SCENE - 83 FT GSD	6-band Enhanced Thematic Mapper scene (August 14)	OtherImagery	No Use Restriction
2002 LANDSAT PANCHROMATIC LATE WINTER SCENE - 41 FT GSD	1-band Enhanced Thematic Mapper (band 8 panchromatic-April 24)	OtherImagery	No Use Restriction
2002 LANDSAT PANCHROMATIC SUMMER SCENE - 42 FT GSD	1-band Enhanced Thematic Mapper (band 8 panchromatic-August 14)	OtherImagery	No Use Restriction
2004 LANDSAT MULTIBAND SUMMER SCENE - 82 FT GSD	6-band Thematic Mapper scene (August 11)	OtherImagery	No Use Restriction
2004 LANDSAT PANCHROMATIC SUMMER SCENE - 42 FT GSD	1-band Enhanced Thematic Mapper (band 8 panchromatic-August 11)	OtherImagery	No Use Restriction
FIRST RETURN LIDAR INTENSITY ASCII	First-return lidar intensity ascii data	OtherImagery	No Use Restriction

Name	Description	Group	Access
FIRST RETURN LIDAR INTENSITY IMAGERY - 3 FT GSD	Histogram-balanced first return lidar intensity imagery	OtherImagery	No Use Restriction
HISTORIC USGS DIGITAL RASTER GRAPHIC QUADRANGLES	Historic USGS 1:125k topographic quadrangles - 1890 to 1920 vintage	OtherImagery	No Use Restriction
LAST RETURN LIDAR INTENSITY ASCII	Last-return lidar intensity ascii data	OtherImagery	No Use Restriction
LAST RETURN LIDAR INTENSITY IMAGERY - 3 FT GSD	Histogram-balanced last return lidar intensity imagery	OtherImagery	No Use Restriction
USGS DIGITAL RASTER GRAPHIC QUADRANGLES	Digital version of USGS 7.5 minute topographic quadrangles; various vintages.	OtherImagery	No Use Restriction

5.3.3   Agency Vector and Tabular Data

▪ Table 5.3.3 contains listings of agency level data. These are data sets maintained by agencies that for a variety of reasons are not currently stored in the King County Spatial Data Warehouse. This table is sorted on the Agency Name column to mirror the order of Section 4.

Name	Description	Update Frequency	Steward Agency
ANNO_LEADERLINES	Leader lines for annotation.	As needed	Assessments
ANNO_POINTS	Points for block symbols.	As needed	Assessments
APT_NEIGHBORHOODS	Apartment specialty areas.	As needed	Assessments
COMBINEDUTILITYDISTRICT	Combined Utility Districts (Layer Under Construction)	As needed	Assessments
COMMERCIAL_AREAS	Commercial Area boundaries.	As needed	Assessments
CONDO_NEIGHBORHOODS	Condominium specialty areas.	As needed	Assessments
CONVEYANCE	Platted major number; plats and Donation Land Claim boundaries. Under construction	As needed	Assessments
FIRE-DISTRICT	Fire Districts (Layer Under Construction)	As needed	Assessments
HOSPITALDISTRICT	Hospital Districts (Layer Under Construction)	As needed	Assessments
LIBRARYDISTRICT	Library Districts (Layer Under Construction)	As needed	Assessments
PARKDISTRICT	Park District (Layer Under Construction)	As needed	Assessments
QSMAPINDEX	Index for generating QA map	As needed	Assessments
RESAREAS	Residential Areas boundaries	As needed	Assessments
SCHOOL-DISTRICT	School Districts (Layer Under Construction)	As needed	Assessments
SEWER-DISTRICT	Sewer Districts (Layer Under Construction)	As needed	Assessments
WATER-DISTRICT	Water Districts (Layer Under Construction)	As needed	Assessments
ADDRES_POINT	Polygon layer based on PARCEL with tabular data added; other items added through spatial overlay; including only one or all possible addresses from the ESITES. Produced to meet a need for upcoming Accela Automation system implemented by Permit Integration	Weekly	DPER
AG_PRODUCTION_DISTRICT_95	Archival version of the Agricultural Production District (APD) as defined by Chapter 3 of the King County Comprehensive Plan.	None planned	DPER

Name	Description	Update Frequency	Steward Agency
AIRPORT	Airport Noise Remedy Program. Created from an old published map; this old version is currently referenced in code.	None planned	DPER
AQUATIC	Polygons representing maximum stream buffers of Aquatic Areas (primarily streams and water bodies) under the King County Critical Areas Ordinance	Irregular	DPER
BALD_EAGLE_NESTS	Points representing observed Bald Eagle Nest Points	None planned	DPER
BLDGREVIEWREF_AREA	Polygons representing ground snow load values and seismic zone values by PLSS section	As needed	DPER
CAO_DESIGNATION	Polygons representing properties with field checked critical area sketch maps on record.	Monthly	DPER
CARDROOM	Points representing operating card rooms in King County as of April 2000	None planned	DPER
CGMAIL	Table of addresses for community groups that get notified when buffered mailing lists are created. Related to COMGROUP below.	As needed	DPER
CIA	Polygons used as the basis for all the various CIA_* layers. When those layers are adjusted the CIA polygons are reallocated.	Irregular	DPER
CIA_BUILD	Polygons representing building inspection areas. Derived from CIA.	As needed	DPER
COMGROUP	Polygons representing the area of interest of community groups who are on record to be notified of certain types of permit activity.	As needed	DPER
COMPLU_CENTERS	Polygons and Points representing community centers designated under the KC Comp. Plan	As needed	DPER
CRITICAL_DRAINAGE	Polygons representing Critical Drainage Areas	None planned	DPER
DEV_COND_LUT	Table of detailed information to be related to P-Suffix; Demonstration Project Area; and Special District Overlay layers	As needed	DPER
ESA_IA	Polygons representing Environmental Species Act (ESA) inspection areas.	Irregular	DPER
FIRE_ZONE	Polygons representing groups of fire districts and municipal jurisdictions used by the Fire Marshal office.	As needed	DPER
FLOOD_ELEVATION_CERTIFICATES	Polygons representing parcels with a recorded flood elevation certificate.	Irregular	DPER
FOREST_PRACTICE_APPLICATIONS_XXXX	Archival versions of the parcels with Forest Practices Applications in the given year (e.g. FOREST_PRACTICE_APPLICATIONS_1996).	None planned	DPER
FOREST_PRODUCTION_DISTRICT_XXXX	Archival versions of the Forest Production District in the given year (e.g. FOREST_PRODUCTION_DISTRICT_1995).	As needed	DPER
GEO_PERMIT	Polygon and Point layers. Based on parcels. Provides geographic reference for any DDES permit system records where one can be located. . This layer is expected to be an enterprise layer in the future.	Weekly	DPER
GROUND_WATER_MANAGEMENT	Polygons representing ground water management	None	DPER

Name	Description	Update Frequency	Steward Agency
	areas.	planned	
HALEPAR	Polygons representing parcels containing observed Bald Eagle Nest Points.	None planned	DPER
INTERLOCAL_AGREEMENT	Polygons representing DDES interlocal agreements with various cities and agencies.	As needed	DPER
JOINT_PLANNING	Polygons representing joint planning areas as defined by the King County Comprehensive Plan.	As needed	DPER
KING_COUNTY_GOV_FAC	Points representing government facilities that need to be shown on DDES maps. Notably the Black River facility that houses DDES.	Irregular	DPER
LAKE_MANAGEMENT_PLANS	Polygons representing Lake Management Plans	None planned	DPER
LAKE_PROTECTION_STANDARDS	Polygons representing Lake Protection Standard Areas	None planned	DPER
LU_XXXXX	A series of polygon layers representing Comprehensive Plan land use changes per various King County ordinances. Each layer shows the before and after planned land use for a given ordinance. Layer name provides ordinance number (e.g. LU_11353).	As needed	DPER
MAJOR_RECEIVING_WATER_BODIES	Polygons representing major receiving water bodies as regulated by the Surface Water Design Manual	Irregular	DPER
MASTER_DRAINAGE_PLAN	Master Drainage Plans Areas as defined and regulated by the Surface Water Design Manual.	Irregular	DPER
MINE_SITES	Points representing mineral resource sites as defined by Chapter 3 of the King County Comprehensive Plan.	As needed	DPER
MINE_XXXX	Archival versions of mineral resource sites as defined by Chapter 3 of the King County Comprehensive Plan in the given year (e.g. MINE_1995).	Yearly	DPER
MPS_200403	Archival versions of the Road Mitigation Payment System later; originally effective March 2004.	None planned	DPER
OPENENF	Points representing open code enforcement cases.	Monthly	DPER
OPENLUIS	Points representing open land use inspections	Monthly	DPER
P_XXXX	A series of region layers representing parcel specific development condition changers per various King County ordinances. Each layer shows the before and after changes to the modified p-suffixes. Layer name provides ordinance number (e.g. P_11353).	As needed	DPER
PARCELS	Parcel specific database for development conditions information. This table is stored in MS ACCESS.	As needed	DPER
PERMPAR	Polygons representing parcels associated with DDES permits. Includes historical parcels that no longer exist.	Monthly	DPER
PLATS	Table derived from the DDES permitting system that lists major number and plat name where that is available.	Monthly	DPER

Name	Description	Update Frequency	Steward Agency
POTENTIAL_ANNEXATION_1994	Archival versionof Interim Potential Annexation Areas layer (INTRMPAA) published in the King County Spatial Data Warehouse	None planned	DPER
PWI	Polygons representing Areas of Potential Wetland Influence (300 ft buffers of SAO Wetlands with KCAWET and the NWI wetlands) under the King County Critical Areas Ordinance.	As needed	DPER
RED_TAILED_HAWK	Points indicating observed Red-Tailed Hawk nests.	As needed	DPER
RFFA	Polygons representing the KC Comp. Plan designated Rural Forest Focus Areas	As needed	DPER
RURAL_AGRICULTURE_DISTRICT_XXXX	Archival versions of the Rural Agricultural District in the given year (e.g. RURAL_AGRICULTURE_DISTRICT _1995).	As needed	DPER
RURAL_FOREST_DISTRIBUTION_XXXX	Archival versions of the Rural Forest District in the given year (e.g. RURAL_FOREST_DISTRICT _1995).	As needed	DPER
SCHDST_LUT	Table maintained by DDES to provide the correct text for Fife School District on GISMO parcel info report	As needed	DPER
SEATTLE_INTERNATIONAL_RACEWAY	Polygon representing the Seattle International Raceway property. This is relevant to some Comp Plan policies.	None planned	DPER
SENS_HISTSITE	Polygons representing parcels that contain sensitive officially designated Historic Sites in King County as defined by the King County Historic Resource Inventory. The sensitive sites are kept separate from the other historic sites and not published to s	As needed	DPER
SERVICE_AND_FINANCIAL_STRATEGY	Historic planning layer with polygons showing the then planned level of services for various ares of the county.	None planned	DPER
SO_XXXXX	A series of region layers representing special district overlay changers per various King County ordinances. Each layer shows the before and after changes to the modified SDOs. Layer name provides ordinance number (e.g. SO_11353).	As needed	DPER
SOOS_CREEK_RGNL_SIGNIF_RESOURCE	Polygons representing Regionally Significant Resource Areas in the Rural portions of the Soos Creek Basin Plan	None planned	DPER
SUBDIV	Polygons representing each recorded plat. Generated by dissolving tax lots on major number.	Irregular	DPER
TDR	Polygons representing parcels receiving or sending Transfer of Development Rights (TDR).	As needed	DPER
TELECOMM	Points representing telecommunications related permits. Of special interest are cell phone tower permits.	Quarterly	DPER
TEN_SPECIES	Points representing nesting sites for ten sensitive species that are protected under the regulations of the King County Critical Areas Ordinance	As needed	DPER
URBAN_CENTER	Polygons and Points representing urban centers designated under the KC Comp. Plan	As needed	DPER
WILDLIFE_HABITAT_CONSERVATION_FLAG	Polygons representing buffer distances around species nests that are designated as Wildlife	As needed	DPER

Name	Description	Update Frequency	Steward Agency
	Habitat Conservation Areas under the KC Critical Areas Ordinance		
Z_XXXXX	A series of polygon layers representing zoning changes per various King County ordinances. Each layer shows the before and after zoning for a given ordinance. Layer name provides ordinance number (e.g. Z_11353).	As needed	DPER
ZONINGXX	Archival versions of the Zoning at the end of each given year (e.g. Zoning_00).	As needed	DPER
ESITES	Address site point of each building in King County that is also published to the SDW as ADDRESS_POINT	Daily	DES - EMD
ESN	PSAP Emergency Service Zone layer used for routing E-911 calls to the appropriate PSAP.	As needed	DES - EMD
ROADS	New roads collected during site address verification process	As needed	DES - EMD
REPMS	Real Estate Portfolio Management System database contents pertaining to County owned parcels; easements; leases (leasehold and lease fee); and some permits.	Daily	DES - FMD
CSOBSN	Basins that contribute wastewater to Combined Sewer Overflow discharge locations.	As needed	DNRP - WTD
DFMBSN11	Areas contributing flow to Decennial Flow Monitors installed from 2009 to 2011	None planned	DNRP - WTD
FLOWMNTR	Contains depictions current and historic monitors used in a variety of projects from day to day system flow monitoring to I/I project monitoring.	As needed	DNRP - WTD
LOCALLN	Contains depiction of local sewer pipes with available attribute information	As needed	DNRP - WTD
LOCALMH	Contains depiction of local sewer facilities with available attribute information	As needed	DNRP - WTD
MDLBSNXX	Basins developed for WTD modelers through the Inflow and Infiltration project based on 2000 or 2001 data. MDLBSN02 shows proper depiction of Redmond area basins.	None planned	DNRP - WTD
MNIBSNXX	Basins developed for flow monitoring efforts through the Infiltration and Inflow project based on 2000 and 2001data. MNIBSN02 shows proper depiction of Redmond area basins.	None planned	DNRP - WTD
POSSIBLE_END_USER	Layer file derived from a Geodatabase showing parcels of agencies who may be interested in using reclaimed water. Will be transferred from agency development library in 2008.	None planned	DNRP - WTD
RAINGAGE	Contains depictions of WTD and Water and Land Resources rain gages.	As needed	DNRP - WTD
RWSPBSNXX	Basins used by WTD to plan and manage wastewater flow as used in the Regional Wastewater Service Plan until 2003. This has been superseded by WTDBASIN.	None planned	DNRP - WTD
SERVAREA_DISS	WTD service area boundary.	As needed	DNRP - WTD
SEWER_ANNO	Geodatabase feature classes in an assortment of scales annotating WTD sewer line and facilities	As needed	DNRP - WTD

Name	Description	Update Frequency	Steward Agency
SWR_AGEN	A depiction of the sewer agencies that provide flow to WTD. This data set is for cartographic and planning purposes only and does not show individual service areas or district boundaries. It should not be confused with SEWER_DIST maintained by Records an	As needed	DNRP - WTD
SWRLNDXX	Areas of sewered land delineated using local line sewer location and account information; air photos; and parcel boundaries	As needed	DNRP - WTD
UGACOMBO	Polygon showing Urban Growth Area (UGA) for King County and Snohomish County. Combined 2002 King County UGA data and 2000 Snohomish UGA data.	As needed	DNRP - WTD
WTD_HCP	WTD Habitat Conservation Plan Boundary.	As needed	DNRP - WTD
WTDMDLBSN	WTD Basins used in hydraulic modeling	As needed	DNRP - WTD
WTDPLNGBSN	WTD sewer basins- RWSP basins with revised boundaries to match the updated service area boundary.	As needed	DNRP - WTD
APD_RIPAR100	APD Riparian Condition Units - 100 ft stream buffers	None planned	DNRP - WLRD
APD_RIPAR25	APD Riparian Condition Units - 25 ft stream buffers	None planned	DNRP - WLRD
BEAR_LOCS	Bear sighting locations	None planned	DNRP - WLRD
BUGS_MAA	Benthic Macroinvertebrate Sampling Sites	None planned	DNRP - WLRD
CAO_AQUATIC	Critical Areas Ordinance Aquatic Buffer Zones	Unknown	DNRP - WLRD
CAO_BASINS	Critical Areas Ordinance	Unknown	DNRP - WLRD
DAIRIES	Dairies and Commercial Agricultural Operations	As needed	DNRP - WLRD
FARMPLAN	Parcels with Farm Plans	As needed	DNRP - WLRD
FCZD	Green River Flood Control Zone	None planned	DNRP - WLRD
FISH7	Fish distribution in WRIA 7	None planned	DNRP - WLRD
FISH7_PT	Fish distribution in WRIA 7; shapefile points	None planned	DNRP - WLRD
FISH7_SOURCE	Fish Distribution (WRIA 7) Source Table	None planned	DNRP - WLRD
FISH8	Salmon Distribution (WRIA 8)	None planned	DNRP - WLRD
FISH8_PT	Salmon Observation Locations (WRIA 8)	None planned	DNRP - WLRD
FISH8_PT_DAT	Salmon Observations Data Table (WRIA 8)	None planned	DNRP - WLRD
FISH9	Salmon Distribution (WRIA 8)	None planned	DNRP - WLRD
FISH9_PT	Salmon Observation Locations (WRIA 8)	None planned	DNRP - WLRD

Name	Description	Update Frequency	Steward Agency
FISHV	Distribution of 5 salmon species in Vashon streams	As needed	DNRP - WLRD
FISHV_PT	Point observations of 5 salmon species on Vashon.	None planned	DNRP - WLRD
FLOOD_PROP	Flood Hazard Reduction Section Flood Buyout Parcels	As needed	DNRP - WLRD
FTA	Forestry Technical Assistance	As needed	DNRP - WLRD
GREEN_HIST	Historical Green River	None planned	DNRP - WLRD
LIVESTOCK_VFD	Verified Livestock Parcels	As needed	DNRP - WLRD
RDP_BND	Rural Drainage Program Service Areas	As needed	DNRP - WLRD
RFFA	Rural Forest Focus Areas (as adopted in 2001 Comp. Plan)	As needed	DNRP - WLRD
SWDM_BOGS	2005 Surface Water Design Manual Bog Wetlands	None planned	DNRP - WLRD
MASTRAIL	Master database of all known current and proposed trails within King County. Parent of the Enterprise data layer TRAIL; BCT_GENERAL_DISPLAY; REGIONAL_TRAIL_GENERAL_DISPLAY. Spatial data maintained as line features.	As needed	DNRP - PRD
PARK_FACILITY_MAST	Master database of all known park- and trail-related facilities at recreational sites within King County. Parent of the Enterprise data layer PARK_FACILITY. Spatial data maintained as point features.	As needed	DNRP - PRD
PARKMAST	Master database of all known current and proposed parks within King County. Parent of the Enterprise data layer PARK. Spatial data maintained as polygon features.	As needed	DNRP - PRD
PARKPROP_DATABASE	SQL database for Parks property information. Parent of Enterprise data layer PARK_PROPERTY.	As needed	DNRP - PRD
PSAFI_DATABASE	SQL database for Parks current and historic facilities information. Parent of enterprise PARK; PARK_FACILITY; PARK_ADDRESS_TABLE; and PARK_INFO_TABLE and PARK_AND_TRAIL_FACILITIES TABLE.	As needed	DNRP - PRD
CEDAR_HILLS_PROPERTY_SALES	Sales of property within the legally-mandated notification zone surrounding the Cedar Hills Regional Landfill. Obtained from records of the King County Department of Assessments. Maintained as tabular data; linked to specific parcels by PIN.	Quarterly	DNRP - SWD
CLCP_SITES	Sites of cleanup events conducted under the Community Litter Cleanup Program. Spatial data maintained as point features.	Quarterly	DNRP - SWD
GEOCODES	King County EMS Geocode Grid	As needed	Public Health
BURKEBLUEPOLY	Heretofore unrecorded archaeological sites for King County	As needed	DOT - Roads
BURKEGRAYPOLY	Heretofore unrecorded archaeological sites for King County	As needed	DOT - Roads
CB_INSPECTION	Catch Basin inspections tied to catch basin locations	Daily	DOT - Roads

Name	Description	Update Frequency	Steward Agency
CIPPATH	Line shapes representing King County Capital Improvement Sub-Projects	Daily	DOT - Roads
CIPPLINE	Line shapes representing King County Capital Improvement Projects	Daily	DOT - Roads
CIPPOINT	Point shapes representing King County Capital Improvement Projects	Daily	DOT - Roads
CLOSURE	Line shapes representing Road Closures due to storm events or construction.	As needed	DOT - Roads
CLP	Recorded Cultural Resources managed by Seattle Public Utility (SPU)	As needed	DOT - Roads
COLLISIONS	Point shapes representing accident locations reported by WSDOT on unincorporated King County roads	Daily	DOT - Roads
CRREPORTS	Areas of previous cultural resource surveys	None planned	DOT - Roads
DRAINAGE_DESIGN_PROJECTS	Locations where drainage projects have been designed and their status.	As needed	DOT - Roads
FUELING_LOCATIONS	Fueling locations for Fleet	As needed	DOT - Roads
FULLNAME_ROUTE	Linear Routes based on transportation roads network roadway names	As needed	DOT - Roads
GLOETHNOTRAIL	Cultural features digitized from Government land Office (GLO) maps for use as shape files (feature data sources)	None planned	DOT - Roads
GLOETHPOLY	Cultural features digitized from GLO maps for use as shape files (feature data sources)	None planned	DOT - Roads
GLOHISTPOLY	Cultural features digitized from GLO maps for use as shape files (feature data sources)	None planned	DOT - Roads
GLOHISTPT	Cultural features digitized from GLO maps for use as shape files (feature data sources)	None planned	DOT - Roads
GLOHISTRD	Cultural features digitized from GLO maps for use as shape files (feature data sources)	None planned	DOT - Roads
GUARDRAIL	Line shapes representing the King County inventory of countywide guardrail	Monthly	DOT - Roads
HALS	Point shapes representing King County countywide High Accident Locations	Annually	DOT - Roads
HARS	Line shapes representing King County countywide High Accident Roadways	Annually	DOT - Roads
HIST_ARCH	Recorded historic archaeological sites for King County	None planned	DOT - Roads
LAASETHNSP	Ethnographic place names for King County	None planned	DOT - Roads
LAASTCPSP	Areas of traditional cultural and religious significance for Native American groups in King County	None planned	DOT - Roads
LANDFORM	Paleo-landscape features (late Pleistocene and Holocene)	None planned	DOT - Roads
LUMINAIRE	Point shapes representing locations where luminaires (street lamps) exist	Daily	DOT - Roads

Name	Description	Update Frequency	Steward Agency
MOUNT_STRUCTURE	Metal poles and wood posts that any number of signs; signal heads; flashers; traffic cameras; and luminaires are mounted on.	As needed	DOT - Roads
NEP	Line shapes representing King County Countywide Neighborhood Enhancement Projects	Monthly	DOT - Roads
PATHWAY	Line shapes representing countywide School Pathway Projects	Monthly	DOT - Roads
PAVEMENT_MARKINGS_LINE	Markings or striping indicate the separation of the lanes for road users and assist the bicyclist by indicating assigned travel paths.	As needed	DOT - Roads
PITSITE_POINT	Point shapes representing pit sites in King County	None planned	DOT - Roads
PREHIST_ARCH	Recorded prehistoric archaeological sites for King County	None planned	DOT - Roads
RD_PONDS	Point shapes representing retention/detention ponds.	Monthly	DOT - Roads
ROADLOG_AVGPSC_LINE	Average Pavement Surface Condition of Roadlog	As needed	DOT - Roads
ROADLOG_BIKE_LINE	Bike routes on Roadlog lines	As needed	DOT - Roads
ROADLOG_CURB_LINE	Curbs on Roadlog lines	As needed	DOT - Roads
ROADLOG_FEDERALFUNCTIONCALCLASS_ LINE	Federal Functional Classifications of Roadlog lines	As needed	DOT - Roads
ROADLOG_LONG_LINE	Composite of all Roadlog event attribute data	As needed	DOT - Roads
ROADLOG_MEDIAN_LINE	Medians on Roadlog lines	As needed	DOT - Roads
ROADLOG_NUMOFLANE_LINE	Number of lanes on Roadlog lines	As needed	DOT - Roads
ROADLOG_PAVEMENTWIDTH_LINE	Width of the pavement on Roadlog lines	As needed	DOT - Roads
ROADLOG_ROUTE	Routes of Roadlog lines	As needed	DOT - Roads
ROADLOG_SHOULDER_LINE	Shoulders along Roadlog lines	As needed	DOT - Roads
ROADLOG_SIDEWALK_LINE	Sidewalks along Roadlog lines	As needed	DOT - Roads
ROADLOG_SURFACEHISTORY_LINE	Pavement surface history along Roadlog lines	As needed	DOT - Roads
ROADLOG_SURFACETYPE_LINE	Surface Type of Roadlog lines	As needed	DOT - Roads
ROADLOG_TRUCKROUTECLASS_LINE	Truck Classifications along Roadlog lines	As needed	DOT - Roads
SIGNAL_WARRANT	Point locations that have met the Manual on Uniform Traffic Control Devices (MUTCD) criteria that warrants a signal to be constructed.	As needed	DOT - Roads
SIGNALS_FLASHERS	Signal and Flasher locations	As needed	DOT - Roads
SIGNINSTALL_AREA	Geographic areas for traffic sign installation and checks	None planned	DOT - Roads
ACCIDENT	Point shapes representing transit accident locations. ACCIDENT attributes include date; time; status; reviewed; road conditions; weather; judgment; severity; route and vehicle characteristics; FTA codes; on street; and cross street.	Daily	DOT - Transit
ACTIVESTOPS	Point shapes representing active Transit bus stops derived from TNET as a distance from an intersection along a link.	Daily	DOT - Transit

Name	Description	Update Frequency	Steward Agency
CLOSEDSTOPS	Point shapes representing closed Transit bus stops derived from TNET as a distance from an intersection along a link.	Daily	DOT - Transit
EMITTER_APC	Point shapes representing Transit radio frequency emitters derived from EMITTER. These points may have a different location from the physical emitter location to facilitate Automatic Passenger Counter system processing	Daily	DOT - Transit
EMITTER_AVL	Point shapes representing Transit radio frequency emitters derived from EMITTER. These points may have a different location from the physical emitter location to facilitate Automatic Vehicle Location system processing	Daily	DOT - Transit
INACTIVESTOPSS	Point shapes representing inactive Transit bus stops derived from TNET as a distance from an intersection along a link.	Daily	DOT - Transit
INCIDENT	Point shapes representing transit security incidents. INCIDENT attributes include date; route characteristics; on street; cross street; and items describing the incident type.	Daily	DOT - Transit
PENDINGSTOPS	Point shapes representing pending Transit bus stops derived from TNET as a distance from an intersection along a link.	Daily	DOT - Transit
PLANNEDSTOPS	Point shapes representing planned Transit bus stops derived from TNET as a distance from an intersection along a link.	Daily	DOT - Transit
TRANS_POINT	Point shapes representing intersections of line shapes. TRANS_POINT attributes include transit timepoint key and X/Y coordinates.	Daily	DOT - Transit
XFERZONE	Point features representing bus stops that are within 100 feet of another stop on a different major route. This data is utilized by the Automated Trip Information System to aid trip planning.	Daily	DOT - Transit
ZONES	Point shapes representing all active and inactive Transit bus stops derived from street as a distance from an intersection along a link.	Unknown	DOT - Transit
2008_0P5_NOISE_CNTRS	2008 0.5 Db DNL noise contours (future case noise contours that are based on 2003 fleet mix).	As needed	DOT - Airport
2008_1P0_NOISE_CNTRS	2008 1.0 Db DNL noise contours (future case noise contours that are based on 2003 fleet mix).	As needed	DOT - Airport
RUNWAY	Runways	As needed	DOT - Airport
TAXIWAY	Taxiways	As needed	DOT - Airport
BDOL	Ballot Drop Off Locations (points)	As needed	KC Elections
PRECINCT	Excel spreadshett of voting precinct assignment	As needed	KC Elections
PRECINCTPORTION	Excel spreadsheet of minor taxing assignments	As needed	KC Elections
STREETSEG	Street centerline master address file (MAF)	Weekly	KC Elections
REPORTING_DISTRICTS_LL	Also called Reporting Areas - a shape file that is an important component of the department Computer Aided Dispatch (CAD) system. A reporting area is the smallest formally defined geography used by the Sheriff Office and is a subset of a Patrol District	As needed	KCSO

Name	Description	Update Frequency	Steward Agency
OMBUDSMAN	Spreadsheet for mapping the location of complaints (by zipcode) received by the Ombudsman Office.	As needed	KC Council
CSD	ReportCard database contains contract and project level data with aggregated client demographics; service levels and outcomes.	Bi-Annually	DCHS
CSD_HSD	Street addresses of capital projects.	Annual	DCHS
DDD	Contract data on service delivery and program effectiveness	Annual	DCHS
OPD	Informix database maintains client intake data and assignment to contracted public defense firm.	Ongoing	DCHS

5.4   Deployed Applications

Table 5.4 contains information about GIS related applications deployed by KCGIS program agencies.

Application	Purpose
Assessments	
iRealProperty Status: In Revision User Audience: Dept. of Assessments staff.	iPad application for field data collection.
Appeals Status: In Maintenance User Audience: Appraisal staff	Generates appeals documentation for the department defending appeals before King County Board of Equalization.
eMap Status: In Maintenance User Audience: Public	Provide on-line access to Dept. of Assessments quarter-section map.
eRealProp Status: In Maintenance User Audience: Public	Provide access to property detail/data maintained by Assessments.
Get Map Series Page Numbers Status: In Maintenance User Audience: Assessor mapping staff.	Generates lists of maps to be updated based on the edit date of the parcel layer.
KcamEditExtension Status: In Maintenance User Audience: Assessor mapping staff.	This extension was written by KCGIS to streamline the KCAM editing process. It is a toolset that includes standard query menus, copying and endpoint tools.
PDF Generation Status: In Maintenance User Audience: Assessor GIS specialist.	Generate PDF maps for appraisers to use in field.
QSMAP Status: In Maintenance User Audience: Assessor GIS staff.	The application generates the "official" Quarter-Section map produced by the Dept. of Assessments.
RealProp Status: In Maintenance User Audience: Dept. of Assessments staff.	The RealProp application provides access to department data for viewing and update.
DDES	
GISMO Map Viewer Status: In Revision User Audience: Business Staff of DPER, including Permit Center, Inspectors, and Code Enforcement.	Counter Application for spatial Display and Query of GIS & other business data.
GISMO Reports Status: In Revision User Audience: DPER staff, plus a few others within King County	Provide reports of property characteristics given parcel number, taxpayer name, permit number, or address. Based on GIS overlay and tabular data.
DES - Elections	
Find Electoral Districts Status: In Maintenance User Audience: Election department staff, other King County staff, and the general public.	Web-based application which will provide responsive, user-friendly data query and mapping capabilities for users seeking information on electoral districts in King County.
DES - FMD	
Downtown Seattle Government Offices Status: In Maintenance User Audience: Public	An interactive map showing government building locations in downtown Seattle.

Application	Purpose
DNRP - Parks	
iMap - Parks Map Set Status: In Maintenance User Audience: Parks and Recreation Division staff, other King County staff, and the general public	Online map application used to identify parks, trails, and recreation-related facilities in King County
Park Property Status: In Maintenance User Audience: Parks and Recreation Division GIS staff	Data entry system to update Parks' property information.
ParkView Status: In Maintenance User Audience: Parks and Recreation Division staff and other King County staff who are involved in planning and managing Parks projects, programs, and properties	Provide users with tools and functionality to enable them to create their own maps of King County parks, trails, and recreation-related facilities, along with other KCGIS enterprise data which are of interest.
PSAFI Status: In Maintenance User Audience: Parks and Recreation GIS staff	A data entry system to update Parks data.
ParkFinder Status: In Maintenance User Audience: Parks and Recreation Division staff, other King County staff, and the general public	Web-based application which provides responsive, user-friendly data query and mapping capabilities for users seeking information on King County's parks, trails, and recreation-related facilities.
DNRP - SWD	
Brownfields Data Entry Interface Status: In Maintenance User Audience: Solid Waste Division staff, KCGIS Center staff	Assist in maintenance of complete, current information for Brownfields Program cleanup sites.
Cedar Hills Property Sales Data Entry Interface Status: In Maintenance User Audience: KCGIS Center staff	Mapping and reporting of property sales within the judicially-designated notification zone surrounding the Cedar Hills Regional Landfill.
CLCP Data Entry Interface Status: In Maintenance User Audience: Solid Waste Division staff	A data entry interface for tracking and recording sites and activities of the Community Litter Cleanup Program.
Construction/Demolition Debris Reuse/Recycling Site Locator Status: In Maintenance User Audience: Solid Waste Division staff, KCGIS Center staff, and the general public	Enable users to list and map locations of businesses and other organizations that accept specific types of construction and demolition materials for reuse, recycling, or disposal.
Conveyance Screening Program Data Collection Status: In Maintenance User Audience: Stormwater section	Collect outfalls data in the field for Stormwater section using Collector for ArcGIS application.
Illegal Dumping Jurisdiction Verifier Status: In Maintenance User Audience: Solid Waste Division staff	Enable Solid Waste Division staff to quickly and accurately verify jurisdictions for locations of reported illegal dumping.
Garage/Yard Sale Online Mapping Utility Status: Unsupported User Audience: Solid Waste Division staff, KCGIS Center staff, and the general public	Enable users to list their garage and yard sales online and search for sales that others have listed.
DNRP - WLRD	
ArcIMS Mapsets - WLRD Status: In Maintenance User Audience: Public, WLRD and other KC agency staff	View GIS data layers in an interactive map.

	Application	Purpose
	Flood Photo Viewer Status: In Maintenance User Audience: Rivers Section and public	View flood photos taken along major river systems in King County, Washington during a flood event.
	Groundwater Well Data Status: In Maintenance User Audience: county and general public	Search for groundwater information filtered by geographic criteria (such as city, watershed, Groundwater Management Areas) or attributes (such as the well log availability).
	Pesticide Free Public Spaces Viewer Status: In Maintenance User Audience: public	Show recreation public locations in King County that are either pesticide free or pesticide reduced sites.
	Salmon Watcher Monitoring Site Viewer Status: In Maintenance User Audience: Public and volunteers	View salmon watcher program monitoring locations.
	Sandbag Distribution Location Viewer Status: In Maintenance User Audience: Public	View sandbag and sand pick-up distribution locations activated in preparation of a flood and during a flood event.
	Snoqualmie Watershed Riparian Photo Viewer Status: In Maintenance User Audience: Public and WLRD staff	View oblique photos taken along the Snoqualmie River in 2001
	Stormwater Mobile Data Collection Status: In Maintenance User Audience: Stormwater field staff	Stormwater data collection in the field using ArcGIS Mobile for Windows.
	TDR Program property map viewer Status: In Maintenance User Audience: public	View TDR Program Sending, Receiving and Bank Sites.
	WTRCRS_LINE Build Status: In Maintenance User Audience:	WTRCRS_LINE route generation and QA
	CIP - DNRP Viewer Status: In Maintenance User Audience: Public	An interactive map showing locations of DNRP Capital Improvement Projects (CIP).
	Farmers Market dataset Status: In Maintenance User Audience: WLRD staff and public	Generate Farmers Market GIS dataset
	King County Noxious Weed Map Status: In Maintenance User Audience: public	View existing noxious weeds GIS data. This interactive map replaces ArcIMS iMap map set "Weeds".
	King County Stormwater Map Status: In Maintenance User Audience: public	View Stormwater GIS data using one of the ArcGIS Online templates.
	Parcel Alert LookUp System (PALS) Status: In Maintenance User Audience: County departments	A mapping utility to identify properties of concern in King County.
	TOPO_CATCHMENTBuild Status: In Maintenance User Audience: DNRP/KCGIS Center	TOPO_CATCHEMENT and child layer geoprocessing workflow
	WTRCRS_3CO Build Status: In Maintenance User Audience: DNRP/KCGIS Center	WTRCRS_3CO geoprocessing workflow
DNRP - WTD		
	CSO Data Portal Status: In Maintenance User Audience: WTD employees. Currently focusing on the CSO program with plans to expand content for a wider audience.	To provide better access to a wide range of data that haven't been leveraged in the past.

	Application	Purpose
	Sea Level Rise Tool Status: In Maintenance User Audience: The core audience is King County staff. However, the tool was designed and built in a generic way that allows anyone with ArcGIS software to run it.	This tool was designed to run different sea level rise scenarios and assess the impact to different properties or facilities.
DOT - Airport		
	Sound Insulation Program Application Status: In Maintenance User Audience: Airport staff	Track info for Sound Insulation Program
DOT - Road Services		
	RNIS Migration Event Update Status: In Revision User Audience: RSD GIS Team and other editors	Web application to correct locations of RNIS events in the ongoing RNIS asset migration from mainframe to GIS. It has about 5 users (ignore the 5000 number).
	RNIS Migration: Nightly Processing Status: In Revision User Audience: RSD GIS Team and other editors	This application is part of the RNIS asset migration from mainframe to GIS data (much along the lines of the earlier TCI (traffic) data migration). It accesses event overrides to properly place RNIS events into a GIS featureclass, and provides information
	Adopt-A-Road Status: In Maintenance User Audience: Road Services staff and the public.	The Adopt-A-Road web map displays the available routes to adopt as well as those routes that have been adopted and the adopting organization.
	Bike Map Status: In Maintenance User Audience: Public	The bicycling guide map is a map providing cyclists the ability to pan and zoom to an area of interest and print the map.
	MUTCD Edit Status: In Maintenance User Audience: Traffic Engineers	This is a web mapping application that allows traffic engineers to create new MUTCD codes for various traffic control inventories.
	My Commute Status: In Maintenance User Audience: The public, Road Services, Transit and the Office of Emergency Management.	To provide citizens and staff accessibility to quality road closure and condition information displayed on an interactive web map (formerly known as the Road Alert).
	Post Roadway: Config Status: In Maintenance User Audience: Roads GIS Team data administrators	This is a web application that allows RSD GIS administrators to add and modify layers to be posted via the Post Roadway application, including source and target, scheduling ongoing and on-demand posts, and setting privileges on the target.
	Road Alert Editor Status: In Maintenance User Audience: Road Services staff	To create and update road closures and condition information via secure internet connection.
	Roads Intranet Web Management Status: In Maintenance User Audience: Roads GIS team	Web-based entry and update of information that appears on the Roads GIS intranet site (kcweb/RoadsGIS)
	Roads Viewer Status: In Maintenance User Audience: Road Services staff	To provide Road Services staff with an easy to use web map interface to query and display roadway asset information.
	RSD Post Reports Status: In Maintenance User Audience: Roads GIS Team data administrators	A web reporting application that lets users view the event logs created by RSDPost to monitor success and failures of nightly processing.
	RSDPost Status: In Maintenance User Audience: Non-interactive	Programmatically post updates from the Roads GIS SDE data maintenance environment (RSDMaint) to the Roads GIS SDE Library (RSDLib) and from RSDLib to the KCGIS SDE pre-production environment (gisprod.maint).
	RSDPost Config Status: In Maintenance User Audience: Roads GIS Team data administrators	This is a web application that allows RSD GIS administrators to add and modify layers to be posted via the RSDPost application, including source and target, scheduling ongoing and on-demand posts, and setting privileges on the target.

Application	Purpose
Tiered Service Levels Map Status: In Maintenance User Audience: Road Service staff and the Public.	To inform the public of what tier designation each road maintained by King County has.
Traffic Counts Status: In Maintenance User Audience: The public and Road Services staff.	The Traffic Counts application provides the locations where traffic counts are collected and displays the Average Daily Traffic (ADT) counts by location per year.
Transportation Needs Viewer Status: In Maintenance User Audience: Road Services staff, Public	Web mapping application displaying transportation improvement projects recommended by the King County Road Services Division and approved by the Metropolitan King County Council to serve unincorporated King County's transportation needs, projected to the
Roads Asset Editor Status: In Maintenance User Audience: Road Services staff	Web mapping application used to maintain RSD's roadway asset information such as signs, delineators, pavement markings, etc. This application employs an LRS to automatically map event based data along a route.
DOT/IT/GIS	
AVL Status: In Maintenance User Audience: Transit Control Center	Facilitates bus fleet tracking.
AVMaps Status: In Maintenance User Audience: ArcView 3.x users within DOT- Transit	Layer and cartographic automation tool.
AVTabs Status: In Maintenance User Audience: ArcView 3.x users within DOT - Transit	Schedule table builder
BackupLibrary Status: In Maintenance User Audience: DOT - Transit (Primarily developers.)	This application creates a backup of the data library on TRVGIS05.
BtReport Status: In Maintenance User Audience: Customer Information	Comparison Reports
BusStopProjection Status: In Maintenance User Audience: GIS users	BusStopProjection.py
CopyTabsExtract Status: In Maintenance User Audience: Mostly developers within DOT/IT/GIS	This application copies data from the TABS server to TRVGIS01 necessary for the AvTabs application.
CreateMOGeocodeIndexes Status: In Maintenance User Audience: Internal users of GIS Toolbox	Creates MapObjects geocode indexes to aid field querying.
DataConn Status: In Maintenance User Audience: All users of Transit's GIS Toolbox and modules.	This is a COM object that provides a centralized ODBC data connection for use by various applications that connect to the Transit Oracle database.
EmitterChange Status: In Maintenance User Audience: Automated Passenger Counting staff.	Tracks changes in vehicle location emitter locations.
EmitterLinks Status: In Maintenance User Audience: Transit radio group/AVL	Creates a table of streets within 250 feet of a transit emitter to support AVL applications.
GIS2ATIS Status: In Maintenance User Audience: Customer Information	Provide GIS data for the Metro Trip Planner.

Application	Purpose
MapCutter Status: In Maintenance User Audience: General Public via Metro transit tracker.	This application uses ArcView to create map images (GIFs) for use with the interactive public website Tracker which provides real-time bus information for a specific timepoint or geographic area.
MMI Status: In Maintenance User Audience: Transit Control Center	This application provides the Transit Emergency Coordinators an easy-to-use interface for connecting and managing communications with Transit coaches.
OBS_Extract Status: In Maintenance User Audience: On Board System users	GIS data provision for the new On Board System automated bus system.
Plib2Prd Status: In Maintenance User Audience: Transit data library users.	Data transfer routines.
Public Data Requests (GTFS) Status: In Maintenance User Audience: Consumers of Transit data outside of King County.	Transit data provisioning application.
Publish_Tnet Status: In Maintenance User Audience: Users of Transit agency databases.	Pushes TNET - related data into consuming directories and locations.
Publish_Transit Status: In Maintenance User Audience: Users of Transit Agency data	Nightly transit data management.
Recnpost_compress Status: In Maintenance User Audience: Users of TNET	Used to reconcile and post each TNET SDE named version to the parent version then compresses the state tree.
RecPostCompSync Suite Status: In Maintenance User Audience: Editing members of the TNET consortium.	To reconcile, post, compress and synchronize TNET data edits between the child versions of TNET and the master.
Route_Footprint_Generator (formerly AS) Status: In Maintenance User Audience: Accessible Services Group	Service footprint generator.
StopShapeExport Status: In Maintenance User Audience: Users of bus stop data	Bus stop shapefile creation/data updater.
TNET Extension Status: In Maintenance User Audience: Editors of Transit's TNET layer.	TNET editing extension.
TP Maps Status: In Maintenance User Audience: AVL Staff within DOT - Transit	Creates maps of Time Points, a component needed for bus scheduling.
Transit GIS Toolbox Status: In Maintenance User Audience: DOT - Transit planners and technical staff.	Query and display tool for Transit Agency data. Modules that maintain stops, route/stop sequences, and Time Points and Time Point Interchanges.
Transit Service Quality GIS Status: In Maintenance User Audience: Transit Service Quality Supervisors	Mobile web-based GIS containing Transit agency and enterprise GIS data.
TransitSDE2Maint Status: In Maintenance User Audience: King County GIS users.	TransitSDE2Maint.py
TransitShape2Maint Status: In Maintenance User Audience: GIS users.	TransitShape2Maint.py

Application	Purpose
TransitTable2Maint Status: In Maintenance User Audience: GIS users.	TransitTable2Maint.py
MoEmitter Status: Unsupported User Audience: Automated Vehicle Location users with Transit	Vehicle Location emitter data maintenance tool.
GIS Center	
Parcel Viewer Status: In Revision User Audience: Everyone	Parcel search and information retrieval
Parcel Viewer 2.0 Status: In Revision User Audience: Everyone	Provide a map-centric tool for exploring King County Parcel information.
Address Search Web Service Status: In Maintenance User Audience: Applications, including the Parcel Reports (web) and LibTool (desktop)	The Web service makes it possible for applications on any server to easily access specific search and GIS functions on KCGIS servers in a secure manner.
Federal Way Public Schools Director Districts Status: In Maintenance User Audience: Public	Display FWPS Director District boundaries and school sites over the standard base maps.
Federal Way Public Schools locator Status: In Maintenance User Audience: Public	Provides and address search and an interactive map for selecting parcels and displaying school assignments.
GIS Data Distribution Application Status: In Maintenance User Audience: Client Services staff and GIS Managers	Track data distribution clients and sales.
iMAP Status: In Maintenance User Audience: King County staff, public	iMAP is a Web-based map viewer that provides online access to map layers and other related information. This map viewer generally requires a broadband Internet connection. Data are grouped into Map Sets that present data from different subject areas. As o
KCGisDateStamperAddin Status: In Maintenance User Audience: All King County GIS users that edit GIS data using ArcMap.	The KCGisDateStamperAddin is an ArcGIS Addin that will place the userid, date for every change or addition to the ArcGIS database, when the addin is enabled. It will also calculate a 10 character PIN field from a 6 character MAJOR field and 4 character M
LibTool Status: In Maintenance User Audience: Enterprise ArcMap users	KCGIS LibTool is the King County enterprise data access tool.
Parcel Reports Status: In Maintenance User Audience: Public	Integrates several reports that are based on a parcel number, including the Property Report (Assessor's data) and the Districts and Development Conditions Report.
PostRep Status: In Maintenance User Audience: DNRP/KCGIS Center	PostRep is the nightly posting and replication routine for the KCGIS Spatial Data Warehouse. The general function of this routine is to run quality control tests on all data submitted to the public library by agency data stewards. Upon passing the tests t
ResourcesIndexCreate Status: In Maintenance User Audience: GIS Center	Creates index of contents of Resources folder
Spatial Data Catalog Interface and Metadata Mgmt Status: In Maintenance User Audience: GIS Center	Hosts xml and html metadata documents on externally-facing webpage portal.
TRS Reports Status: In Maintenance User Audience: GIS Center staff and GIS Managers	View project and task hours reported in TRS (Time Reporting System).

Application	Purpose
ZIPCODE_CR Build Status: In Maintenance User Audience: GIS Center	ZIPCODE_CR_AREA geoprocessing workflow
AvLibShp and AvLibImg Status: Unsupported User Audience: King County staff who use ArcView 3.x	These ArcView 3.x extensions provide users with streamlined methods to access and display layers in the KCGIS Spatial Data Warehouse (SDW).
KCGisDateStamper Status: Unsupported User Audience: All King County GIS users that edit GIS data using ArcMap.	The KCGisDateStamper is an ArcMap extension that will place the userid and date for every change or addition to the ArcGIS database, when the extension is enabled.
ACS Data Management Status: In Maintenance User Audience: GIS Center	Generates yearly (December) selected set of American Community Survey census tables. Each year's batch represents ACS information from the period one year older. For example, in 2014 the ACS data from 2009-2013 is posted to the Spatial Data Warehouse.
AE_Mosaic Status: In Maintenance User Audience: GIS Center	IMPERVIOUS\ORTHO NIR. Builds an 8bit mosaic from 16bit Aerial Express tiles from a hard drive. 9.3 Version
AerialMappingWorkflow Status: In Maintenance User Audience: GIS Center	Assembles preliminary orthos into useable LibTool access objects.
AgencyData Status: In Maintenance User Audience: GIS Center	Builds webpage access to Agency Data listings
AgencyReview Status: In Maintenance User Audience: GIS Center	Creates summary of enterprise data by stewarding agency, assembling information from control table, metadata and database inventories
build_all_mosaics.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Builds 2012 mosaics based on resolution, raw\ortho, rgb\nir from images in \\gisaerial\2012-aerials-working$\Repository 10.0 Version
build_idxp7500_dgm_v10_ws10.py Status: In Maintenance User Audience: GIS Center	ELEVATION. builds dgm-ghs rasters, TIN & zipped ascii for idxp7500 tiles for watershed science 2010 10.0 Version
build_idxp7500_dgm_ws11_ASCII_LIST.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Builds a list of the latest dgm ascii file suffixes for each dgm idxp7500 tile including watershed science 2011 10.0 Version
build_tin_qc.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Builds a TIN based on a suffix 10.0 Version
Census Data Management Status: In Maintenance User Audience: GIS Center	Workflow and scripts for importing 2010 Census data, creating tables, managing layer files and creating metadata
CheckPlibrary2DuplicatesAndExceptions Status: In Maintenance User Audience: GIS Center	Portion of broader SDWCommission Check routines. Checks to see if any shape or dbf object occurs more than once in Plibrary2. Uses Data Coordination Control table to determine if duplicate is valid Value Added polyline. Also checks to see if any objects c
CITY_3CO_AREA Build Status: In Maintenance User Audience: KCGIS Center Staff	CITY_3CO_AREA and CITY_3CO_UNINC_AREA geoprocessing workflows
COMMON_INTEREST Status: In Maintenance User Audience: GIS Center	Provides workflow for maintaining COMMON_INTEREST_POINT and multiple child objects for several KCGIS agencies, such as FIRESTN_POINT, PARKRIDE_POINT, etc.
CompareExtentLUT2Plibrary3Contents Status: In Maintenance User Audience: GIS Center	Compares control table for enterprise raster data to contents of Spatial Data Warehouse housing tiled raster data to ensure there are no commission or omission errors.

Application	Purpose
CompareSchemaBatch Status: In Maintenance User Audience: GIS Center	Compares schema across maintenance and production objects, producing a report for evaluation prior to reposting.
ContourIndexSelect20.py Status: In Maintenance User Audience: GIS Center	Support SDW
Control2Control Status: In Maintenance User Audience: GIS Center	Compares master control table maintained via Steward Tool with contents of table maintained as part of Data Digest. Creates omission and commission lists for correction, if necessary.
CreateTwnLYR Status: In Maintenance User Audience: GIS Center	Creates LYR Files for file-based vector and raster Plibrary3 objects.
DBInventory Status: In Maintenance User Audience: GIS Center	Various subroutines for inventory and assessment of SDE MAINT and Plibrary databases. Also evaluates coded-value-domains.
DictionaryExtracts Status: In Maintenance User Audience: GIS Center	Various routines for creating extracts of data dictionaries and data catalogs for use in creating tables in yearly O&M Plans.
EnterpriseSDCPosting Status: In Maintenance User Audience: GIS Center	Process all metadata exported from nightly PostRep for publication to Spatial Data Catalog. Validates and scores metadata for compliance to FGDC and King County Best Practices. Assembles Data Dictionaries from selected metadata tags.
ExtentIndex Status: In Maintenance User Audience: GIS Center	Updates full raster extent index from unique bounding polygons and populates with data dictionary items.
ExtentLUT Status: In Maintenance User Audience: GIS Center	Manages control table for all enterprise raster objects
FoodSource Status: In Maintenance User Audience: KCGIS Center Stewards	Provides geographically-enabled layer for DPH restaurant inspection point data. Also creates a unique occurrence of each site location for input to the COMMON_INTEREST database for creation of food facilities layer.
GIS Data Portal Status: In Maintenance User Audience: Public	Front-end interface for accessing compressed data packages from the enterprise Spatial Data Warehouse
GIS Data Search Tools Status: In Maintenance User Audience: Enterprise users	Suite of four search modules bundled under one interface for querying and selecting: Archived GIS Data, Historic GIS Data, Enterprise Spatial Data and Non KCGIS Data
HistoricData Status: In Maintenance User Audience: GIS Center	Manages control table for Historic Data inventory.
KCATableUpdate Status: In Maintenance User Audience: GIS Center	Updates tabular indexes on dbf version of KCA business tables and publishes table to Spatial Data Warehouse Plibrary2. ArcView 3.x is used to create indexes.
KeyRegionGridByResample.py Status: In Maintenance User Audience: GIS Center	IMPERVIOUS. Clips Region grid, resamples to 30 feet. 9.3 Version
KINGCO_AREABuild Status: In Maintenance User Audience: GIS Center	KINGCO_AREA geoprocessing workflow
LayersFileCreate Status: In Maintenance User Audience: GIS Center	Manages layer files and publishes them to Spatial Data Warehouse of use in LibTool

Application	Purpose
LayersXMLCreate Status: In Maintenance User Audience: GIS Center	Various routines for constructing XML tables for use in LibTool. Enterprise, Group, Non-KCGIS, Raster and tiled datasets.
MakeSidPrjFile Status: In Maintenance User Audience: GIS Center	Suite of scripts tailored to producing various imagery mosaics using MrSID compression software
MigrateLYRFilesFromSDWToHistoricData Status: In Maintenance User Audience: GIS Center	Corrects data source connection for American Community Survey layer files. Each year old ACS data is moved from enterprise warehouse to Historic Data, requiring that lyr files be corrected.
NonKCGISCatalog Status: In Maintenance User Audience: GIS Center	Access to current Non-KCGIS Agency information, as well as statistics and access history for all Non-KCGIS deliveries. Maintains synchronicity with KCADMIN.Agency table and GISDataLocator Agency table.
NonKCGISCommission Status: In Maintenance User Audience: GIS Center	Logs and removes stale, redundant, or obsolete Non-KCGIS Data from Spatial Data Warehouse
NonKCGISDataPostRep Status: In Maintenance User Audience: GIS Center	Series of workflow routines for preloading and then posting Non-KCGIS data to the SDW.
NonKCGISMetadata Status: In Maintenance User Audience: GIS Center	Creates metadata pages for Non-KCGIS Data that is posted to Spatial Data Warehouse.
NonKCGISResource Status: In Maintenance User Audience: GIS Center	Creates webpage from list of Non-KCGIS data sources. Provides contact info and other resource information
NonKCGISTOC Status: In Maintenance User Audience: GIS Center	Updates Table of Contents for Non-KCGIS updates to Spatial Data Warehouse. This is accessed via Spatial Data Catalog.
Plibrary2Snapshot Status: In Maintenance User Audience: GIS Center	Routine for creating periodic snapshots of the Plibrary2 shapefile library to GIS Archive searchable index. Also copies Plibrary db objects that are not represented as shapefiles. Includes quarterly MAINT db snapshot.
PLSS_SUITEBuild Status: In Maintenance User Audience: GIS Center	PLSS_TWN_AREA, PLSS_SEC_AREA, and PLSS_QTR_AREA geoprocessing workflow
Project Image Library Status: In Maintenance User Audience: GIS Center	Routines imbedded in workflow to add new project image mosaics to Project Image Library, update catalog/metadata, and rebuild shapefile index. Now includes DDES SAO sitemaps inventory.
PublishLYRFiles Status: In Maintenance User Audience: GIS Center	Publishes new and updated LYR files to Plibrary
RasterMetadataPublish Status: In Maintenance User Audience: GIS Center	Publishes master raster metadata to all file-based and SDE objects
RastStat_7500 Status: In Maintenance User Audience: GIS Center	Two routines that create inventory of all tiling level objects. One for 7500 tiling scheme and one for Township-Range tiling scheme
REALPROP_AREABuild Status: In Maintenance User Audience: GIS Center	Workflow and scripts for creating REALPROP_AREA featureclass using spreadsheet data provide Facilities and Management Division
SDWCommission Status: In Maintenance User Audience: GIS Center	Analyzes Spatial Data Warehouse for data objects that cannot be confirmed by control tables. Depending on level of data, either logs and removes commission or logs for later review and action.

Application	Purpose
SDWOmission Status: In Maintenance User Audience: GIS Center	Analyzes Spatial Data Warehouse for data objects that are missing or not synchronized with control tables. Reviews internal dependent object relationships such as ensuring shape files are complete and current
Spatial Data Warehouse Notification (Data Digest) Status: In Maintenance User Audience: GIS Center	Creates a searchable index for all transactions published in the GIS Data News Digest.
StewardTool Status: In Maintenance User Audience: KCGIS Data Stewards	Allows data stewards to register and post tabular and spatial data to the enterprise spatial data warehouse
tin_ascii_compare.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Compares existence of ascii files to TINs 10.0 Version
TownshipDGMProducts.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Creates dgm township products: dgm, ghs rasters and 5 foot contours clipped to idxptrmid & idxptrneat 10.0 Version
TownshipGridByMask Status: In Maintenance User Audience: GIS Center	IMPERVIOUS. Clips township grids from SDE impervious. Adds fields IMP & SOURCE, Joins table vat_data_lut.dbf to calc values for added fields. 9.3 Version
TRCEditBatch Status: In Maintenance User Audience: GIS Center	Maintains control table relative to state of Data Digest. Used as cross-check on PostRep control table.
UpdateDGM_SOURCE_V10.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Recreates the dgm data source feature class from individual data source polygons. 10.0 Version
UpdateExtentLUT Status: In Maintenance User Audience: GIS Center	Workflow routine for updating master xls catalog for raster objects.
Visual Spatial Data Catalog Status: In Maintenance User Audience: GIS Center	Creates webpage hosting thumbnails of all SDW objects.
WTRBDY_AREA Build Status: In Maintenance User Audience: GIS Center	WTRBDY_AREA geoprocessing workflow
XMLStat Status: In Maintenance User Audience: GIS Center	Creates webpage inventory of all xml attribute values and frequency count.
ZoneDGMProducts_V10.py Status: In Maintenance User Audience: GIS Center	ELEVATION. Clips resampled 15 foot dgm and 6 foot ghs rasters by zone polygon 10.0 Version
ZoneGridByMask Status: In Maintenance User Audience: GIS Center	IMPERVIOUS. Clips zone grids from SDE impervious. Resamples to 15 feet, adds fields IMP, calc value 1 for IMP fields. 9.3 Version
Public Health	
West Nile Virus App Status: In Maintenance User Audience: Public Health staff	Track KC facilities such as ponds, ditches for mosquito larvae count and treatment of West Nile Virus.
Strategic Planning	
Annexation Initiative Map Status: In Maintenance User Audience: Public	Allow users to examine addresses within potential annexation areas.
Census Viewer Status: Unsupported User Audience: Public	Allows users to view maps and tables for King County census data.

5.5 Servers

This section removed from public facing version.

6   KCGIS Center Services

The KCGIS Center provides services through three lines of business. These include the centralized services provided by Enterprise Operations, the technical and professional services provided by Client Services, and the business specific services provided by Matrix Staff Services. This appendix provides an overview of services provided by Enterprise Operations and Client Services. For examples of services provided by Matrix Staff Services refer to the GIS work programs for the agencies currently supported by KCGIS Center matrix staff (DPER, DNRP, DOT, and OBSP).

Enterprise Operations
KCGIS Governance Structure Support – Administrative support to the KCGIS Oversight and Technical committees for their routine activities, as well as administrative and professional support to the committees for occasional special projects. Also included in this service are professional and technical support to help develop and serve as custodian of KCGIS standards and best practices, as well as coordinate drafting and publication of the biennial KCGIS O&M Plan.

KCGIS Priority Initiatives – Professional and technical support to priority work initiatives as identified by the KCGIS Technical Committee. The level of staff commitment to priority initiatives is significant and is usually in the range of 2.0 FTE each year. See Section 3 of this document for a detailed discussion of the current priority initiatives.

KCGIS Program Coordination – Facilitate coordination and communication across the organizational boundaries of King County agencies. This is in part accomplished by administering and staffing interagency groups such as the KCGIS Users Group and the GIS Application Developers Group. Support is also provided on an ad hoc basis to facilitate discussion and resolution of cross agency GIS issues as they arise.

Regional GIS Coordination – Represent the interests of the KCGIS community at the regional, state, and national level. This includes providing professional and management support to regional GIS initiatives and collaborations such as the 2015 Regional Aerials Project.

Marketing – A program of targeted communications about the benefits and services of the KCGIS Center. The goal of the marketing program is to increase awareness and use of KCGIS resources and services, in order to enhance the efficiency of government operations, and to broaden the financial base supporting KCGIS.

Spatial Data Warehouse (SDW) – The core responsibility of the KCGIS Center is to manage all components of the enterprise SDW including; the server and software infrastructure that comprise the SDW; the processes that control and monitor the SDW including database administration, data loading, and data access; and the procedures that keep SDW contents logically organized and thoroughly described with accurate and complete metadata.

KCGIS Center Website – Manage all components of the KCGIS Center Internet and intranet websites including the Spatial Data Catalog, the map compendium page, and GIS Data Portal, as well as Web pages describing our programs and services.

GIS Enterprise Applications – Develop and maintain a series of utilities and applications to support the enterprise GIS, agency GIS professionals, and GIS end-users. These services include scripts and programs that perform automatic updates, batch processing, and system integrity checks; applications that support and enable agency GIS data stewards, and Web based and desktop applications that provide access to varying levels of GIS functionality for end-users with GIS skills ranging from novice to advanced.

GIS Data Coordination, Acquisition, Maintenance, and Distribution – The KCGIS Center has several responsibilities in regards to management of GIS data. Broadly these include: a cross agency data inventory and coordination function to maintain the integrity of the SDW and promote continuous data improvement (this includes support to the King County Assessor to integrate parcel data edits into the county's cadastral base); an acquisition program to obtain (or exchange when possible) and organize GIS data from local, regional, state, and federal agencies; a stewardship program to maintain a set of data

layers as an enterprise service; and a distribution function to make KCGIS data available via an Internet data download portal.

Contract Management – Negotiate and manage vendor and consultant contracts for GIS software and services, as well as contracts with external agencies where the KCGIS Center is the service provider.

GIS Education and Outreach – Promote the uses and benefits of GIS technology to county staff, local agencies, and the public through a variety education and outreach opportunities. Examples include briefings, seminars, user and interest groups, and videos.

Client Services

The KCGIS Center Client Services Unit meets the GIS needs of any client seeking services. Customers include county staff needing maps or spatial analysis, GIS end-users or professionals who need training or specialized technical assistance, and managers needing skilled staff to help meet project or peak workload demands. KCGIS Center client services are provided on a full cost reimbursable basis. In 2015-2016 the standard Client Services' hourly labor rates range from $110 - $165 per hour. These rates assume 126 billable hours per month per staff member, and apply to trained, experienced, multi-skilled GIS professionals able to work in a variety of specialty areas. Included in calculating the hourly billing rate are individual salary, paid leave, and benefits, KCGIS Center overhead costs for management, training, materials, and supplies, and other central overhead costs passed on to the KCGIS Center. Beginning in 2013 Client Services rates include 6.24 percent KCIT Mandated and Business Foundation (MBF) costs.

2015-2016 Standard GIS Client Services Hourly Billing Rates

Administrative Services	$110.00
GIS Analyst (GIS Journey Level):	$118.00
GIS Analyst (GIS Senior Level):	$124.00
Senior Cartographer:	$130.00
GIS Programmer (GIS Master Level):	$130.00
GIS Project Manager:	$142.00
GIS Consultant:	$142.00
GIS Center Manager:	$165.00

A special GIS Technician billing rate is available for long term multi-month data development or data maintenance project work. This special billing rate assumes 144 billable hours per month per GIS Technician (GIS Journey level only). This rate applies to trained GIS technicians for standard repetitive GIS data development or maintenance work only (e.g. digitizing, geocoding, etc.). It is also limited to projects with a minimum duration of three months or more fulltime, and which involve ongoing production-level data development via established methodology. This special billing rate is set at $105.00 per hour in 2015-2016.

The KCGIS Center Client Services Manager is the point of contact for service requests and customer relationship management. The range of services provided by Client Services includes:

Mapping – Client Services annually produces hundreds of maps for meetings and publications. Rapid turn-around times and incorporation of custom data are standard features of this service.

Publication Quality Cartography – Client Services provides specialized cartography services that combine the flexibility of GIS with the artistry of graphic design. Client Services map products have won national and international awards. Examples of products created include brochures, booklets, graphics for outdoor signage, and posters.

GIS Analysis and Reporting – Combining and analyzing GIS data sets is often needed when generating policies, making critical business decisions, or conducting research or investigations. Client Services has extensive experience performing a wide variety of complex analyses and incorporating the results into reports or presentations.

Custom Data Requests – Client Services fills custom data requests at the hourly GIS Analyst rate (plus materials), with a three-hour minimum. All data requests that include aerial imagery and LiDAR (elevation) data are considered custom requests as the preferred format and spatial extent of each request is almost

always unique. The goal of the Client Services Unit is to provide exactly the data needed, in the appropriate format, in a timely manner, for the lowest possible cost.

GIS Data Development – Client Services provides a full range of data development services for improving or updating existing GIS data, creating new GIS data, or for integrating non-GIS information into GIS compatible formats.

GIS Application Development – Making GIS information available on the Internet or via a customized desktop interface increases the utility and visibility of that information. Client Services has created a number of significant applications for a variety of customers.

GIS Training Services – Client Services offers GIS training courses at the King Street Center (KSC) computer training facility or on-site at a client's facility. Courses are taught by KCGIS Center staff (including two certified Esri trainers). Development of custom courses is an important component of this service. Tuition varies based on cost factors but is generally extremely cost-effective when compared to training offered by other vendors. Client Services also rents the KSC facility to external GIS training consultants to enhance the range of available training opportunities, and King County staff members are frequently eligible for discounts on tuition. Revenue received in rent is used to seed a training credits program that allows KCGIS Technical Committee member agencies to accumulate and use the credits to pay for any GIS training offered at the KSC facility.

GIS Mentoring – Mentoring is available from Client Services, through its Training Coordinator and other support personnel. Free support is provided in reasonable, brief increments to both internal and external GIS users. This service is intended to resolve issues and problems that can be cleared up during a phone conversion, an email exchange, or a brief meeting. More comprehensive mentoring programs that cover ongoing or significant needs can be arranged at the standard Client Services rate.

GIS Services Express – Client Services offers a packaged service, which includes eight hours of free consulting time and discounts for King County training in exchange for a commitment by the client to a block of 100 hours of service. This service is available to any agency seeking help with their GIS program. It provides a mechanism to receive a bundled package of GIS services, and is an excellent opportunity for agencies are looking to implement their own GIS capabilities, but needing guidance and help to get started.

GIS Project Management and Consulting Services – Client Services offers skilled project management and consulting support. Typical services in this area include GIS needs assessment, GIS staff hiring assistance, GIS implementation, and GIS infrastructure review and design.

7 KCGIS Committees

7.1 Oversight Committee

Details regarding the roles, responsibilities, and structure of the KCGIS Oversight Committee are provided in section 2.2 of this document. Presented here are the recent membership histories for the committee and the committee's current charter.

7.1.1 Membership

2015-2016 GIS Oversight Committee Representatives

Agency	Sub-Agency	Representative	Term
Dept. of Assessments	--	Tre Maxie	Jan-Dec
Dept. of Permitting and Environmental Review	--	Warren Cheney	Jan-Dec
Dept. of Executive Services**	--	*Vacant*	Jan-Dec
Dept. of Natural Resources and Parks	--	Gary Hocking*	Jan-Dec
Dept. of Transportation	Road Services	*Vacant*	Jan-Dec
Dept. of Transportation	Information Technology	Stephen Heard	Jan-Dec

* Chair
** Rotating Agency

2014 GIS Oversight Committee Representatives

Agency	Sub-Agency	Representative	Term
Dept. of Assessments	--	Tre Maxie	Jan-Dec
Dept. of Development and Environmental Services	--	Warren Cheney	Jan-Dec
Dept. of Executive Services**	--	*Vacant*	Jan-Dec
Dept. of Natural Resources and Parks	--	Gary Hocking*	Jan-Dec
Dept. of Transportation	Road Services	*Vacant*	Jan-Dec
Dept. of Transportation	Transit	Stephen Heard	Jan-Dec

* Chair
** Rotating Agency

7.1.2   Charter

King County

GIS STAKEHOLDER/OVERSIGHT COMMITTEE

Revised August 2012

Purpose:

This charter establishes roles, membership, and guidelines for the GIS Oversight Committee

Role:

As the GIS Oversight Committee, the committee will:

- Review and approve GIS related budgets for all agencies;
- Review and approve the annual GIS Operation and Maintenance Plan;
- Review and approve all GIS work programs, including operations and maintenance plans, with associated costs identified;
- Review and approve King County GIS Standards;
- Review and approve technical and policy recommendations from GIS Technical Committee;
- Recommend cost allocation model for Central GIS services;
- Make recommendations to the Technology Management Board as needed;
- Resolve issues referred to GIS Oversight Committee as needed.

Leadership:

A KCIT Service Delivery Manager designated by the Chief Information Officer will chair the committee.

Membership:

GIS Oversight Committee membership shall consist of a representative from the following county agencies: DNRP, DOT-Transit, DOT-Road Services, DPER, and Assessments. Members must have authority for: budget approval; GIS programs within their department; representation of customers and end users; and policy decisions. GIS Oversight Committee will appoint at least one rotating member for a one-year term from agencies and programmatic areas that have significant involvement in GIS. Members will not serve on both the GIS Technical Committee and the GIS Oversight simultaneously.

Operating Assumptions and Guidelines:

- Meetings will be held no less than twice per year and more often if necessary.
- Decisions will be made by consensus. If consensus cannot be reached within the GIS Oversight Committee, the issue will be referred to the Chief Information Officer.
- The GIS Oversight Committee will establish ground rules.

7.2 Technical Committee

Details regarding the roles, responsibilities, and structure of the KCGIS Technical Committee are provided in section 2.3 of this document. Presented here are the recent membership histories for the committee, the committee's current charter, and objectives statements for the committee's active work groups.

The KCGIS Technical Committee publishes its agendas, minutes, quarterly reports, and other documents to the Public Folders on the KC WAN, which are available through the county's e-mail system. The path to the KCGIS Technical Committee documents is Public Folders / All Public Folders / Inter-Agency / GIS / GIS Technical Committee.

7.2.1 Membership History

2015-2016 GIS Technical Committee Representatives

Agency	Sub-Agency	Representative	Term
Office of Strategic Planning and Performance Management	--	Nanette Lowe	Jan-Dec
Dept. of Assessments	--	Christie Most	Jan-Dec
Dept. of Community and Human Services	--	Kathy Tremper	Jan-Dec
Dept. of Development and Environmental Services	--	Paul McCombs	Jan-Dec
Dept. of Elections	--	Dave Wilson	Jan-Dec
Dept. of Executive Services	Office of Emergency Management	Khalid Khan*	Jan-Dec
Dept. of Executive Services	Facilities Management	Leo Griffin	Jan-Dec
Dept. of Natural Resources and Parks	KCGIS Center	George Horning	Jan-Dec
Dept. of Natural Resources and Parks	Parks	Greg Stought	Jan-Dec
Dept. of Natural Resources and Parks	Solid Waste	Greg Stought	Jan-Dec
Dept. of Natural Resources and Parks	Wastewater	*TBD*	Jan-Dec
Dept. of Natural Resources and Parks	Water and Land Resources	Ruoxi Zhang	Jan-Dec
Dept. of Public Health	--	Dmitry Sharkov	Jan-Dec
Dept. of Transportation	Road Services	Jeff Gregg	Jan-Dec
Dept. of Transportation	Transit	Matt Kozleski**	Jan-Dec
Dept. of Transportation	Airport	Vanessa Chin	Jan-Dec
King County Council	--	Erin Auzins	Jan-Dec
Sheriff's Office	--	Miranda Brewer	Jan-Dec

* Chair for 2015
** Vice-Chair for 2015

2014 GIS Technical Committee Representatives

Agency	Sub-Agency	Representative	Term
Office of Strategic Planning and Performance Management	--	Nanette Lowe	Jan-Dec
Dept. of Assessments	--	Christie Most	Jan-Dec
Dept. of Community and Human Services	--	Kathy Tremper	Jan-Dec
Dept. of Development and Environmental Services	--	Paul McCombs	Jan-Dec
Dept. of Elections	--	Dave Wilson*	Jan-Dec
Dept. of Executive Services	Office of Emergency Management	Khalid Khan**	Jan-Dec
Dept. of Executive Services	Facilities Management	Leo Griffin	Jan-Dec
Dept. of Natural Resources and Parks	KCGIS Center	George Horning	Jan-Dec
Dept. of Natural Resources and Parks	Parks	Greg Stought	Jan-Dec
Dept. of Natural Resources and Parks	Solid Waste	Greg Stought	Jan-Dec
Dept. of Natural Resources and Parks	Wastewater	Bob Swarner	Jan-Dec
Dept. of Natural Resources and Parks	Water and Land Resources	Ruoxi Zhang	Jan-Dec
Dept. of Public Health	--	Dmitry Sharkov	Jan-Dec
Dept. of Transportation	Road Services	Jeff Gregg	Jan-Dec
Dept. of Transportation	Transit	Matt Kozleski	Jan-Dec
Dept. of Transportation	Airport	Vanessa Chin	Jan-Dec
King County Council	--	Ricardo Bautista Erin Auzins	Jan-May Jun-Dec
Sheriff's Office	--	Miranda Brewer	Jan-Dec

* Chair
** Vice-Chair

7.2.2   Charter

King County

GIS TECHNICAL COMMITTEE

Charter

Revised – 1/22/2013

Purpose:

This charter establishes roles, membership, and guidelines for the GIS Technical Committee.

Role:

As the GIS Technical Committee, the committee will:

- Report to the GIS Oversight Committee;
- Recommend policy for countywide GIS technology to GIS Oversight Committee;
- Develop an annual GIS Business Plan and work program;
- Develop and recommend GIS templates and standards for the countywide GIS program;
- Educate departments about the value GIS will add to business practices;
- Maintain an inventory of countywide GIS data and applications;
- Prepare quarterly reports on the status of the countywide GIS program.

Leadership:

The committee will vote annually for chair and vice-chair positions.

Membership:

Membership will consist of one representative from the following King County GIS user agencies:

Assessments	DES-Facilities Management	DNRP-Water & Land Resources
OPSB	Elections	Public Health
DCHS	KCGIS Center	Sheriff's Office
County Council	DNRP-Parks and Recreation	DOT-Airport
DPER	DNRP-Solid Waste	DOT-Road Services
DES-E911 Program	DNRP-Wastewater Treatment	DOT-Information Technology

The list of participating GIS user agencies will be reviewed and updated yearly. Members will not serve on both the GIS Technical Committee and the GIS Oversight Committee simultaneously.

Operating Assumptions and Guidelines:

- Meetings will be held at least monthly, and more often if necessary.
- Decisions will be made by consensus of members or designated alternates present. If consensus cannot be reached within the GIS Technical Committee, the issue will be referred to the GIS Oversight Committee.
- GIS Technical Committee will establish ground rules.

7.2.3 Work Groups

The KCGIS Technical Committee will at its discretion create work groups to address technical and programmatic issues. The KCGIS Technical Committee currently has two "chartered" work groups (Digital Imagery, and GIS Operations and Maintenance) and a handful of informal groups. The chartered work groups are given clear objectives by the KCGIS Technical Committee, in order to focus and guide the long term efforts of these groups.

7.2.3.1 Digital Imagery

Objectives Statement:

The purpose of the Digital Imagery Working Group is to develop and manage a long-term acquisition and coordination strategy for geo-spatial digital imagery that meets planning and engineering-level requirements for all King County Departments.

The group is tasked by the GIS Technical Committee to be knowledgeable of current digital imagery assets and future digital imagery needs, research and recommend acquisition solutions, coordinate with internal and external agencies where appropriate, and explore realistic funding options.

The goals of the working group include:

- Provide a resource to county departments in need of geo-spatial imagery and maximize opportunities for cost reduction and elimination of duplicative efforts within the county

- Develop, in coordination with the KCGIS Center, a catalog of existing geo-spatial imagery products in the county

- Develop an inventory of current imagery products, users, user needs and purposes, current and potential funding sources, and technical requirements - including spatial accuracy, resolution, spectral issues, file access and handling issues, acceptable latency of imagery

- Identify areas of common and unique imagery needs, and classify in the most succinct way possible the various needs into general categories to simplify resolution of potentially conflicting efforts

- Work to develop cooperative ventures with other agencies to minimize and share costs, maximize suitability, and where appropriate eliminate duplicative effort among agencies in acquiring new aerial imagery

- Investigate and make recommendations on potential imagery acquisitions

- Evaluate and report on emerging trends pertinent to King County geo-spatial imagery needs

- Review and edit (as appropriate) metadata for imagery sets in support of KCGIS data coordinator

- Develop guidelines and recommendations for use of the various imagery products in cooperation with the product authors

- Develop training/educational materials to assist county users in maximizing the use of imagery

- Develop or provide assistance in developing contracts and specifications for acquisition and/or processing of geo-spatial imagery

7.2.3.2 GIS Operations and Maintenance

Objectives Statement:

The GIS Operations and Maintenance Workgroup will produce an annual working document which: 1) Outlines the roles and responsibilities for the countywide GIS program; 2) Describes the current status of GIS services, applications, data and hardware; 3) Delineates the coordinated department level work plans for the coming year; and 4) Sets goals for the future technical direction of the countywide GIS program.

7.2.3.3 Cartographic Standards

Objectives Statement:

The Cartographic Standards Workgroup will propose standards and guidelines that enable staff to produce high-quality, consistent map products for King County.

8   Appendix

8.1   2015-2016 KCGIS Consolidated Budget

http://your.kingcounty.gov/ftp/gis/Web/Documents/OM_2015-16_App8-1.pdf

8.2   KCGIS Center 2015-2016 Adopted Budget Rates Overview

http://your.kingcounty.gov/ftp/gis/Web/Documents/OM_2015-16_App8-2.pdf

8.3   2015-2016 KCGIS Center Adopted Financial Plan

http://your.kingcounty.gov/ftp/gis/Web/Documents/OM_2015-16_App8-3.pdf