



CITY OF KIRKLAND

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MEMORANDUM

To: David Ramsay, City Manager
From: Eric Shields, Planning Director
Date: July 7, 2006
Subject: PSRC Vision 2020+20 Regional Plan

RECOMMENDATION

Discuss the PSRC Vision 2020+20 regional plan update. Provide direction for:

- Discussion at the July Public Issues Committee of the Suburban Cities Association.
- Submittal of comments to the PSRC regarding preparation of a preferred growth alternative.

BACKGROUND DISCUSSION

The Puget Sound Regional Council is in the midst of preparing a major update to the regional growth plan for the four-county central Puget Sound Area (King, Pierce, Snohomish and Kitsap Counties). The regional plan serves as the “multi-county planning policies” (MPPs) pursuant to the state Growth Management Act. MPPs provide regional guidance to County-wide Planning Policies and local comprehensive plans to assure regional coordination. The current plan, known as Vision 2020, provides guidance for planning through the year 2020. The update process extends the planning horizon to the year 2040.

The update involves two important components. The first is the adoption of a preferred growth alternative, which will present a vision for the desired distribution of growth between 2000 and 2040. During this period, an additional 1.7 million people and 1.1 million jobs are forecasted. To date, the PSRC has prepared four growth alternatives and is now in the process of preparing a preferred growth alternative.

The second component of the plan will be updated policies. The PSRC staff has proposed reorganizing the policies into five groupings: 1) environment, 2) development patterns, 3) economy, 4) transportation, and 5) public services and orderly development. Draft policies are now in the process of being prepared.

In May, a Draft Environmental Impact Statement was prepared which explained the growth alternatives and discussed their relative environmental impacts. An executive summary of the DEIS is attached. As you will see, the alternatives vary primarily by the degree to which growth is directed toward cities with urban centers or dispersed to smaller and more outlying cities. All of the alternatives maintain the current urban growth boundaries designated in each of the counties. The discussion of impacts is understandably very general and conceptual given the nature of the plan. Broadly speaking, alternatives that have more centralized concentrations of growth will allow for the more efficient delivery of transportation and other urban services and will better protect rural and resource lands. However, these alternatives will also have the greatest localized traffic, noise and air quality impacts in the areas where the greatest growth occurs.

Following is a general schedule for the completion of the Vision 2020 update:

- 7/31/06: Deadline for DEIS comments. All comments received by the deadline will be part of the official record.
- 9/06: PSRC Growth Management Policy Board (GMPB) reviews DEIS comments.
- 9-11/06: GMPB works on preferred growth alternative.
- 11/06: GMPB meets with Transportation Policy Board (TRB) and Economic Development District (EDD) to discuss preferred growth alternative and begin discussion of new multi-county planning policies (MPPs).
- 11/06-2/07: GMPB reviews MPPs. TPB and EDD reviews subsets of MPPs.
- 3/07: Preferred growth alternative and draft MPPs transmitted to Executive Board.
- Spring 07: Supplemental DEIS, growth alternative and MPPs issued for public comment.

The most immediate deadline is the July 31 due date for comments on the DEIS. However, because of the very general discussion of impacts, I do not believe that it would be particularly important for Kirkland to focus much attention on this issue. What is of much greater importance is the selection of a draft preferred growth alternative. As you can see from the above schedule, the PSRC Growth Management Policy Board will be focusing on this beginning in September. While there will be opportunities to comment on the growth alternative through November, PSRC staff has asked for comments as soon as possible and has indicated that comments on the growth alternative which are submitted by the July 31 DEIS comment deadline will be "on the record." Therefore, I recommend that the focus of the Council discussion on July 18 be on the topic of the

preferred growth alternative. This would be helpful as well to provide guidance for discussion at the upcoming Suburban Cities Public Issues Committee meeting.

In preparing growth alternatives, PSRC divided the region into several classifications of regional geographies with similar characteristics. The classifications are:

- Metropolitan cities: The regions five largest core cities - Seattle, Bellevue, Tacoma, Everett and Bremerton.
- Core suburban cities: Cities, such as Kirkland, with designated urban centers.
- Larger suburban cities: Larger inner ring suburban cities without urban centers.
- Smaller suburban cities: Smaller cities and towns.
- Unincorporated urban growth areas: Unincorporated areas within the urban growth area.
- Rural areas: Lands outside of the UGA which are not designated resource lands.
- Natural resource Areas: Forests, agricultural lands, mining lands and shorelines.

The four growth alternatives discussed in the EIS are:

- Growth Targets Extended Alternative: This alternative distributes growth to 2040 in proportion to the 2020 growth targets already assigned to jurisdictions. In this alternative, growth is relatively dispersed.
- Metropolitan Cities Alternative: In this alternative, a large share of the growth is focused in the region's five largest core cities. This alternative is the most concentrated growth alternative.
- Larger Cities Alternative: The largest share of growth in this alternative is distributed among all cities with designated urban centers and other larger suburban cities. This is the second most concentrated growth alternative.
- Smaller Cities Alternative: Smaller suburban cities and unincorporated areas receive a much larger amount of growth in this alternative, resulting in the most dispersed growth pattern.

Please refer to the attached materials from the DEIS for additional detail about the growth alternatives and the preliminary criteria for selecting a preferred growth alternative. Since some of the attached maps may be hard to read in an electronic format, a paper copy of the materials will also be placed in the Council mail boxes. I have also prepared and attached a chart that summarizes the population and jobs assigned to Kirkland, King County and Larger Cities with each alternative.

What Does It Mean for Kirkland?

From a regional perspective, it is my opinion that the Metropolitan and Larger Cities alternatives are best, as they minimize the outward spread of urbanization and provide for a more compact urban form. However, I do have a significant question about the ability of Kirkland to accept the amount of growth that both of these alternatives have assigned. As can be seen from the population and employment summaries in attachment 4, Kirkland's population would increase by over 30,000 in the Metropolitan Cities alternative and nearly 40,000 in the Larger Cities alternative, compared with about 20,000 in the Growth Targets Extended alternative. At the same time, each of these three alternatives shows Kirkland's employment growing by nearly 30,000. These levels of growth are well beyond our current growth capacity and are likely greater than our build-out under current zoning, although data on build-out are not currently available. (The department is currently in the process of updating our capacity analysis; and we plan to have a build-out analysis prepared at the same time.)

Consequently, I recommend conditional support for a preferred growth alternative that maintains a compact growth pattern, but that growth assignments to individual cities take into account existing development patterns and acknowledge the extent to which cities, such as Kirkland, have already achieved a compact urban form and the degree to which such cities are realistically able to accommodate additional growth.

Attachments:

1. Vision 2020 Update DEIS Executive Summary
2. Selected additional materials from Vision 2020 Update DEIS
3. Evaluation Criteria for Selective a Preferred Growth Alternative
4. Populations and Employment Summary of Growth Alternatives
5. Discussion questions for suburban cities Public Issues Committee
6. Summary of comments contributed by SCA Membership

CC:

ES: Vision 2020+20 7-18-06

VISION 2020 Update Draft Environmental Impact Statement



Puget Sound Regional Council
PSRC MAY 2006

ATTACHMENT 1

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Snoqualmie
Tukwila
Woodinville
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Kitsap County
Port Orchard
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PIERCE COUNTY

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Buckley
DuPont
Eatonville
Edgewood
Fife
Fircrest
Gig Harbor
Lakewood

Milton

Orting
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Puyallup
Ruston
Steilacoom
Sumner
Tacoma
University Place

SNOHOMISH COUNTY

Arlington
Edmonds
Everett
Granite Falls
Lake Stevens
Lynnwood
Marysville
Mill Creek
Monroe
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Snohomish
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Executive Summary

The central Puget Sound region is looking ahead towards the year 2040 and seeking to develop a preferred strategy for accommodating the forecasted 1.6 million new residents and 1.1 million new jobs. People in the region have a chance to shape the future by participating in the update of VISION 2020, the region's strategy for growth, transportation and the economy.

This Executive Summary summarizes the findings of the Draft Environmental Impact Statement for the update of VISION 2020, which analyzes four alternatives that distribute forecasted growth into different types of areas throughout the region. None of the alternatives has been selected as preferred and, over the next year and a half, the region will face some tough choices as it seeks to develop a single growth alternative that reflects our shared values and aspirations.

The Executive Summary contains the following information: (a) background on the existing VISION and the update process, (b) description of the growth distribution alternatives, (c) summary of the analysis and key findings regarding potential impacts, (d) next steps in the VISION 2020 update, and (e) overview of the contents in the full Draft Environmental Impact Statement.

Purpose of the Update

The region is engaging elected officials, agencies, interest groups, and individuals in a process aimed at strengthening VISION 2020 and extending it to 2040.

The objective is to refresh our common vision for how and where growth should occur. This is being done to keep the region's growth management desires current and accessible to the public. The goal is to refocus our commitment to an environmentally friendly and economically successful growth pattern that can be efficiently served by infrastructure, services, and amenities.

The updated growth vision will provide a common framework for the region's leadership to coordinate efforts to provide the resources necessary to support the needs of a growing population.

The growth vision will also allow the region to take the necessary public policy steps to bend growth trends, if necessary, to promote the desired growth pattern. It will provide regional guidance to future work on county-wide growth targets, countywide planning policies and local comprehensive plans.



VISION 2020 MAP



A. Background

Nearly two decades ago citizens, interest groups, business leaders, and elected officials came together to create VISION 2020, the long-range growth, economic, and transportation strategy for the central Puget Sound region encompassing King, Kitsap, Pierce, and Snohomish counties.

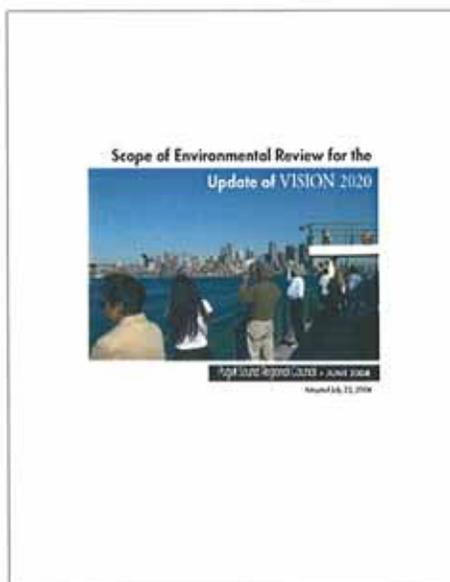
The vision helps guide how and where we grow and how we establish planning and investment priorities. It provides local jurisdictions, the public, the business community, and interest groups with a regional vision to which they can contribute.

VISION 2020 recognizes that our Puget Sound communities are connected by shared ecosystems, transportation systems, and the economy. It recognizes that the region's economic health is dependent on its ability to get goods to market and people to their jobs, and that the ability to preserve open space and parks depends on the fiscal health of its communities. VISION 2020 also recognizes that the way land is developed affects air and water quality, the character of neighborhoods, and the cost of transportation and utilities (see *Chapter 3 – Introduction and Background* in the full document).

VISION 2020 contains the region's multicounty planning policies that are required by the Washington State Growth Management Act. These framework policies and strategies address land use, economic prosperity, transportation, the provision of adequate public services, and the protection of the environment (see *Chapter 7 – Discussion of Multicounty Planning Policies*).

THE VISION 2020 UPDATE'S PURPOSE AND NEED

Beginning in 2003, the Puget Sound Regional Council engaged in a public dialogue regarding whether to revise the existing VISION, which was last updated in 1995. Over a five-month period, Regional Council staff had contact with over 2,000 individuals, organizations, and local jurisdictions throughout the region, and received comments raising more than 1,200 points (see *VISION 2020 Update Scoping Report* at psrc.org).



Commentors believed VISION 2020 needed to be updated, and expressed the following broad themes for the update:

- Build on the current VISION.
- Think long range.
- Be bold and provide regional leadership.
- Broaden the VISION to cover regional issues not currently addressed.
- Be specific when possible — for example, add measurable objectives to policies.

Based on these comments, the Regional Council's Executive Board unanimously agreed that it was time to begin a thorough update of VISION 2020. The purpose of the update was defined as follows:

- Extend the VISION to 2040 to allow it to continue to lead growth management efforts in the region.
- Engage in a public discussion of growth, its impacts, and the region's preferred strategy for managing growth.

- Strengthen strategies and policies to add detail, clarity and to make implementation and monitoring easier.
- Support related regional goals and initiatives for growth management.
- Keep the VISION current, relevant and useful to decision-makers and the public.

These themes and the defined purpose created the framework in which the VISION 2020 update is occurring (see *Chapter 1 – Purpose and Need*).

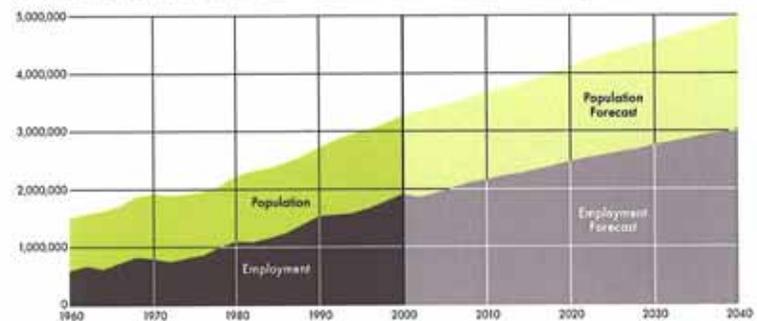
The ideas raised in the public review were further researched in a series of 10 issue papers that were developed under the guidance of the Regional Council’s Growth Management Policy Board. These are available on the attached compact disk (see *Appendix E – Compilation of Issue and Informational Papers*).

A CENTRAL QUESTION – WHERE AND HOW TO ACCOMMODATE FUTURE GROWTH?

The Growth Management Act requires regions, counties, cities and towns to plan for forecasted growth. Over the past decade, jurisdictions in the region have done this through the adoption of local comprehensive plans and associated activities.

The VISION 2020 update is also about accommodating forecasted growth, with 1.6 million additional residents and 1.1 million additional jobs* anticipated by the year 2040. Maintaining and enhancing the region’s quality of life in the face of this growth is a monumental challenge, and the manner in which the region should accommodate the next 35 years worth of growth is the central question of the update.

POPULATION AND EMPLOYMENT TRENDS AND FORECASTS



The VISION 2020 update addresses the questions of “where” growth should and should not occur (as far as location and amounts). It also considers “how” development should take place, meaning its design, building types, and development practices. The selection of a preferred growth alternative will help answer the where question. Updating the region’s multicounty planning policies will help answer the how question.

For both questions, the Draft Environmental Impact Statement starts the process of considering the effects of the four growth alternatives on the region’s people, the built environment (such as housing, land use, and transportation), the natural environment (such as ecosystems, water resources, and air quality), and other resources (such as energy, public services, and visual quality) (see *Chapter 5 – Environmental Effects and Mitigation*).

SELECTING A PREFERRED GROWTH ALTERNATIVE

The preferred growth alternative will be selected after the public reviews and comments on the alternatives included in the Draft Environmental Impact Statement. The Draft Environmental Impact Statement contains criteria for evaluating alternatives and selecting a preferred growth alternative, with measures under the following categories: environmental quality, health, economic prosperity (the objectives of the Regional Economic Strategy), land use, transportation (the objectives of Destination 2030, the region’s long-range transportation plan), social justice and human potential, maintaining rural character, protecting resource lands, efficiencies in the provision and use of infrastructure and public facilities and services (see *Appendix C – Evaluation Criteria for Selecting a Preferred Alternative*).

The preferred growth alternative will then be analyzed alongside the other alternatives in a Supplemental Draft Environmental Impact Statement that will be published for additional public comment (see *Chapter 3 – Introduction and Background*).

* Note: The figures 1.6 million new people and 1.1 million new jobs refer to growth between the present (2005) and 2040. For the purposes of modeling and analysis, the majority of the discussions in the Draft Environmental Impact Statement consider growth from the base year (2000) to 2040. When discussing growth from the base year 2000, the figures 1.7 million new people and 1.2 million new jobs are used.



UPDATING THE EXISTING MULTICOUNTY PLANNING POLICIES

During its initial assessment of the existing multicounty planning policies in the 1995 VISION 2020 document, the Regional Council's Growth Management Policy Board directed staff to build on the existing policies, eliminate those that are obsolete, and develop additional ones where there are gaps. A preliminary proposal is to reorganize the existing eight policy areas into five groupings in the updated VISION. None of the topical material would be eliminated; rather, it would be rearranged to better express the inherent interrelationships among the policies. The proposed five groupings include: (1) environment, (2) development patterns, (3) economy, (4) transportation, and (5) public services and orderly development.

Building on the material contained in the issue paper series, the five groupings will include three components: (a) revised multicounty policies, (b) actions and/or strategies to implement them, and (c) measures for monitoring the implementation and, where possible, effectiveness of the policies (see *Chapter 7 – Discussion of Multicounty Planning Policies*).

CENTRAL PUGET SOUND REGION IN LARGER ECOREGIONAL CONTEXT



Baseline chapter that seeks to draw together the regional environmental picture, raise the level of regional environmental analysis, and be useful for other planning efforts (see *Chapter 2 – Regional Environmental Baseline*).

B. The Growth Distribution Alternatives

Over the past year, the Regional Council has continued to engage in discussions with a wide range of interest groups, county planning directors, countywide staff, and elected officials across the region in order to develop a series of growth distribution alternatives that would undergo environmental analysis. These conceptual alternatives were defined to represent a wide, but realistic, range of regional growth options and embody four distinct sets of choices for accommodating growth on a regional scale in cities, unincorporated urban areas, and rural areas (see *Chapter 3 – Introduction and Background*).

DEFINING REGIONAL GEOGRAPHIES TO GUIDE THE ANALYSIS

In order to distribute growth and conduct an environmental review, the region's jurisdictions were categorized into seven Regional Geographies based on size, location, existing and planned land uses, as well as current thinking about the roles these areas might play in the region's future (see *Chapter 4 – Definition of Alternatives*).

UPDATING THE VISION WITHIN AN ENVIRONMENTAL FRAMEWORK

Since VISION 2020 was first adopted in 1990, our understanding of the region's environment has grown substantially. Environmental protection and restoration efforts — spurred by the listing of salmon species, damage to sensitive areas, human health objectives, loss of forestlands, and other concerns — have also intensified.

During the initial public outreach period in 2003-2004, many comments emphasized a desire for the Regional Council to use the VISION 2020 update process to develop an environmental framework within which to address its ongoing land use, employment, and transportation responsibilities. Comments called for the VISION to serve as a driving force that unifies comprehensive plans and countywide planning policies into a regional environmental framework.

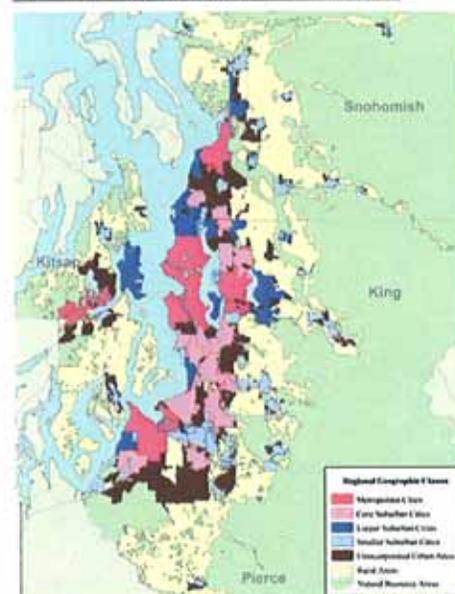
Commentors noted that VISION 2020 is uniquely suited to create a unifying vision of the ways in which current environmental planning efforts interconnect at the regional level. The VISION has the potential to meaningfully affect these issues because of both the collaborative process being used in the update and through the use of multicounty planning policies.

This Draft Environmental Impact Statement begins the process of developing an environmental framework, and contains a Regional Environmental

The seven regional geographies are shown on the adjoining map, and described in the text below:

- **Metropolitan Cities.** The region's largest core cities in each county containing designated Regional Growth Centers. Regional Growth Centers serve as a key framework for the region's adopted long-range multimodal transportation system. *Bellevue, Bremerton, Everett, Seattle, Tacoma* (5 cities, 216 square miles).
 - **Core Suburban Cities.** The region's core suburban cities containing designated Regional Growth Centers. Regional Growth Centers serve as a key framework for the region's adopted long-range multimodal transportation system. *Auburn, Bothell, Burien, Federal Way, Kent, Kirkland, Lakewood, Lynnwood, Puyallup, Redmond, Renton, SeaTac, Silverdale (Kitsap County), and Tukwila* (14 cities, 197 square miles).
 - **Larger Suburban Cities.** The region's larger inner-ring suburban cities with combined population and employment over 22,500. Many of these cities contain important local and regional transit stations, ferry terminals, park-and-ride facilities, and other transportation connections. *Bainbridge Island, Des Moines, Edmonds, Issaquah, Kenmore, Marysville, Mercer Island, Mountlake Terrace, Mukilteo, Sammamish, Shoreline, University Place, and Woodinville* (13 cities, 131 square miles).
 - **Smaller Suburban Cities.** The region's smaller cities and towns. These jurisdictions represent a wide variety of communities, from historic towns and growing new suburban cities, bedroom communities with limited retail and commercial activity and growth potential, to freestanding cities and towns separated from the region's contiguous urban growth area. As such, they have been divided into three sub-categories:
 - **Type A: Smaller Cities and Towns (inside contiguous urban growth area).** These are cities and towns often surrounded by larger suburban jurisdictions, often with greater potential to absorb both population and employment growth than purely residential communities. *Algona, Arlington, Black Diamond, Bonney Lake, Brier, Covington, DuPont, Edgewood, Fife, Fircrest, Gig Harbor, Lake Forest Park, Lake Stevens, Maple Valley, Medina, Mill Creek, Milton, Newcastle, Normandy Park, Orting, Pacific, Port Orchard, Poulsbo, Ruston, Steilacoom, and Sumner.*
 - **Type B: Small Residential Towns (inside contiguous urban growth area).** Small residential enclaves with little capacity to accommodate a great deal of future growth. *Beaux Arts, Clyde Hill, Hunts Point, Woodway, and Yarrow Point.*
 - **Type C: Free-Standing Cities and Towns.** Cities located outside the contiguous urban growth area. *Buckley, Carbonado, Carnation, Darrington, Duvall, Eatonville, Enumclaw, Gold Bar, Granite Falls, Index, Monroe, North Bend, Roy, Skykomish, Snohomish, Snoqualmie, South Prairie, Stanwood, Sultan, and Wilkeson.*
- In the alternatives, Type A cities receive a larger share of the geographic class allocation of population and employment growth than Types B and C (52 cities, 159 miles).
- **Unincorporated Urban Growth Areas.** Areas within designated urban growth areas that are not within the boundaries of incorporated cities and towns (289 square miles).
 - **Rural Areas.** Lands outside of urban growth areas that are not designated as resource areas under the Growth Management Act (1528 square miles).
 - **Natural Resource Areas.** As designated under the Growth Management Act, resource areas include forests, agricultural lands, mining lands, and shorelines (3807 square miles). Note: The alternatives did not allocate additional population and employment in these areas.

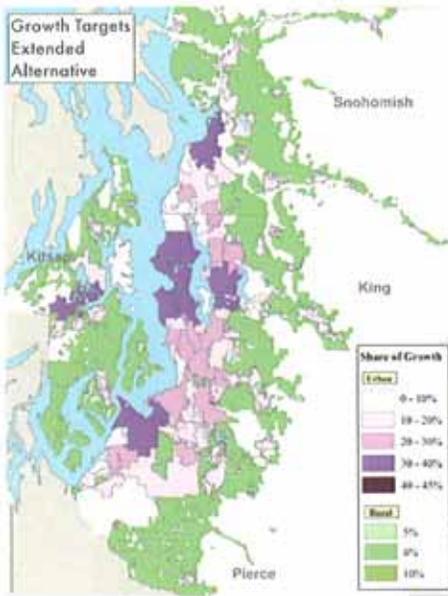
VISION 2020 REGIONAL GEOGRAPHIES



DEFINITION OF ALTERNATIVES

Using the regional geographies as the framework for development of the alternatives, the Regional Council's Growth Management Policy Board and Regional Staff Committee met monthly over a 10-month period to advise and provide direction to Regional Council staff. In September 2005, the Growth Management Policy Board took action to select four growth distribution alternatives to be included in the environmental analysis (see *Chapter 4 – Definition of Alternatives*).

The four alternatives are defined as follows:



Growth Targets Extended Alternative

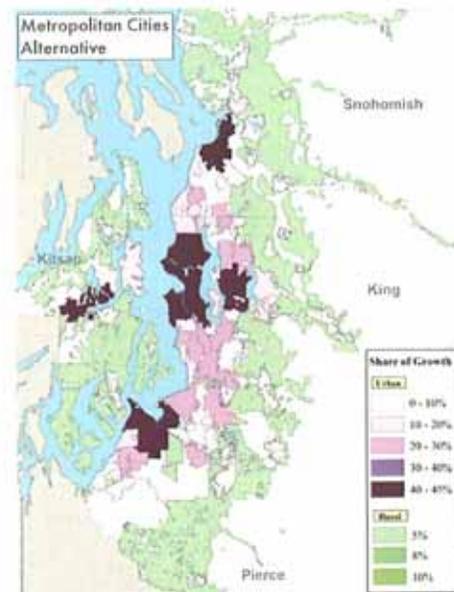
This alternative continues and emphasizes the population and employment growth patterns anticipated in current adopted growth targets, extended to match PSRC's 2040 regional growth forecasts. Future land use designations in local comprehensive plan maps provided a guide for the distribution of growth within regional geographies. Since these targets represent adopted public policy, which would presumably continue if no action were taken to alter the current regional growth vision, this is the No Action Alternative.

Under this alternative, cities and counties would continue to encourage growth to focus in urban centers around the region, as well as in unincorporated urban growth areas and rural areas. Many of the region's new jobs would locate in the largest cities, while medium-sized communities would also become larger employment centers. Many new apartments, condominiums and townhouses could be built in downtown areas near job centers. Extensive residential growth would continue in the region's unincorporated urban and rural areas.

Metropolitan Cities Alternative

This alternative represents the most densely focused regional growth pattern among the alternatives. The largest shares of the region's future growth would occur in the region's five major cities: Seattle, Bellevue, Everett, Bremerton and Tacoma. Growth would also be focused into the region's core suburban cities — those larger suburban municipalities that are already envisioned as important locations for regional growth.

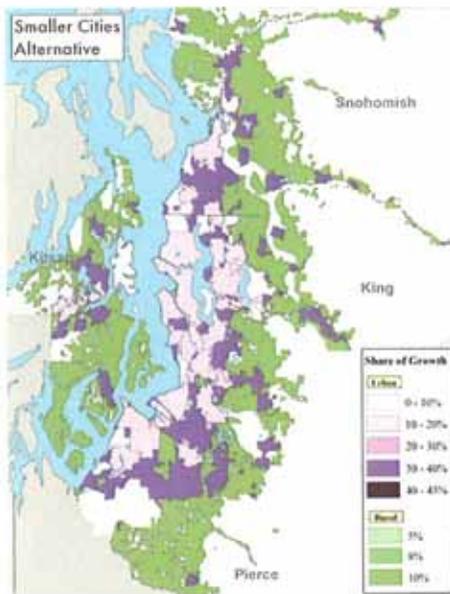
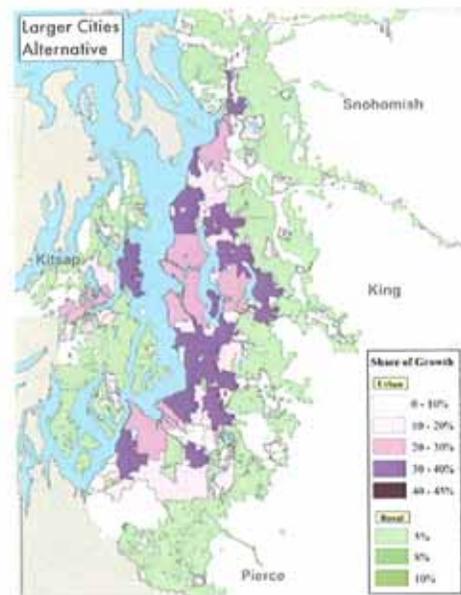
This alternative could result in considerable redevelopment in the region's largest cities, with most new jobs locating in major employment centers, along with new apartments, condominiums and townhouses built near job centers and in areas close to high-capacity transit systems. Much less growth would occur in the region's rural and unincorporated urban areas than is currently planned.



Larger Cities Alternative

This alternative assumes suburban cities in the region would accommodate the bulk of future population and employment growth. Suburban cities with designated regional growth centers and other larger suburban cities could be the primary locations for new development.

Considerable redevelopment could occur in current town center and neighborhood shopping areas, and suburban cities could become major job centers. Many new apartments, condominiums and townhouses could also be built in these areas. Less growth could occur in the downtown areas of the region's largest cities, unincorporated urban areas, and rural areas than is currently planned.



Smaller Cities Alternative

This alternative has the most dispersed regional growth pattern. It would disperse growth within the region's urban growth area — with smaller and freestanding suburban cities and the unincorporated urban growth areas receiving a sizable amount of population and employment growth.

Redevelopment in what are now small downtowns could produce many more significant local employment centers throughout the region. These smaller downtown areas could also develop with new apartments, condominiums and townhouses. Unincorporated urban growth areas — currently the outskirts of small cities and towns — could experience high amounts of new commercial and residential development. There could also be a high amount of single-family housing built in currently undeveloped rural areas.

REGIONAL GROWTH ALTERNATIVES COMPARISON
SHARE OF POPULATION AND EMPLOYMENT GROWTH, BY REGIONAL GEOGRAPHY (2000 TO 2040)

2000-2040 Growth Allocations		Metropolitan Cities	Core Suburban Cities	Larger Suburban Cities	Smaller Suburban Cities	Unincorp. UGA	Rural Areas	TOTAL
Growth Targets Extended Alternative	Population	26%	17%	9%	10%	24%	13%	100%
	Employment	45%	28%	7%	9%	8%	3%	100%
		452,000	286,000	151,000	179,000	413,000	229,000	1,712,000
		545,000	347,000	80,000	109,000	98,000	41,000	1,219,000
Metropolitan Cities Alternative	Population	40%	25%	15%	10%	5%	5%	100%
	Employment	45%	30%	10%	5%	5%	5%	100%
		685,000	428,000	257,000	171,000	86,000	86,000	1,712,000
		549,000	366,000	122,000	61,000	61,000	61,000	1,219,000
Larger Cities Alternative	Population	20%	30%	30%	5%	10%	5%	100%
	Employment	20%	30%	30%	5%	10%	5%	100%
		342,000	514,000	514,000	86,000	171,000	86,000	1,712,000
		244,000	366,000	366,000	61,000	122,000	61,000	1,219,000
Smaller Cities Alternative	Population	10%	10%	5%	30%	35%	10%	100%
	Employment	10%	10%	5%	30%	35%	10%	100%
		171,000	171,000	86,000	514,000	599,000	171,000	1,712,000
		122,000	122,000	61,000	366,000	427,000	122,000	1,219,000

Notes: Totals may vary due to rounding. The percentages represent what was adopted by PSRC's Growth Management Policy Board adopted in September 2005. For each alternative, the shaded areas represent the geographies of focus. Please see the footnote on page 3 of the Executive Summary for more information on the total growth figures.

C. Description of Analysis and Key Findings Regarding the Alternatives

The subsequent bullets and table summarize the content, analytical framework, and key findings regarding potential impacts, and are drawn from each of the analysis chapters (*Chapters 5 and 6*) in the full Draft Environmental Impact Statement. Over the spring and summer of 2006, the Regional Council's Growth Management Policy Board will evaluate the alternatives in order to develop a preferred growth alternative. This will be accomplished using an understanding of the impacts disclosed in the full document, public comments, and, among other technical inputs, a set of evaluation criteria that are contained in *Appendix C* on the attached compact disk.

DESCRIPTION OF ANALYSIS AND APPROACH

- The alternatives, which are conceptual in nature, are analyzed at a level of detail that is appropriate for a regional plan. Therefore, the analysis is not site-specific and is conducted at a regional scale that considers major geographic features, typical current environmental conditions, and broad geographies such as counties or classes of cities.
- There is variability regarding how the alternatives could actually be implemented. Each alternative could accommodate population and employment growth at the local level within a range of actual on-the-ground patterns, depending on local decisions regarding development densities, policy choices, market conditions, and the particular land parcels on which growth occurs. Given the variability, and the long-range nature of the VISION, discussions of impacts and mitigations are described as potentials and therefore terms such as could, likely, or might are used interchangeably.
- Each analysis chapter is structured around a set of resources or characteristics that are unique to the element of the environment. However, the chapters generally contain the same sections. These are as follows:
 - Affected environment, including the physical setting, current trends, and regulatory setting.
 - Analysis of alternatives, including impacts common to all alternatives and analysis of each alternative.
 - Cumulative effects.
 - Potential mitigation measures.
 - Significant unavoidable adverse impacts.
- The analysis considers the likely environmental consequences that may occur directly, indirectly, or cumulatively following the adoption of an updated VISION. As a plan level action, the adoption of an updated VISION would have relatively few direct impacts; rather, it would have *indirect* impacts, with actions that others could take in response to the VISION and to future demands posed by increased growth (such as infrastructure or housing development) being the actions expected to have *direct* impacts. Also considered in the analysis are *cumulative* effects, which are other past, present, and reasonably foreseeable future actions that could alter the environment, regardless of what agency or person undertakes the action.

KEY FINDINGS COMMON TO ALL ALTERNATIVES

- All of the alternatives will increase the number of people and jobs in the region. This increase in human activity will have impacts. As anticipated by the Regional Council's Growth Management Policy Board when they adopted the alternatives for environmental review and analysis, the alternatives and their impacts present a wide, but realistic, range of distinct sets of choices for accommodating growth on a regional scale.
- The alternatives have different regional and localized impacts, both topically and geographically, because they vary the amount of growth that occurs in given geographies and alter the broad regional pattern of growth. The differences in localized impacts are dependent on where and at what levels the growth occurs. Localized impacts include higher levels of traffic, noise, and air quality pollution, or the amount of development that could occur in or near currently undeveloped lands. Depending on where growth occurs, more development could alter or remove natural landscapes, increase impervious surfaces, or affect properties with historic significance. For local governments, levels of growth could require providing different levels of public services and facilities than currently anticipated in adopted plans.

- The alternatives' regional and localized impacts present a complex set of tradeoffs. For example, some alternatives concentrate growth in areas that would potentially expose more people to higher noise and traffic levels by increasing densities in already dense areas but at the same time keep growth away from pristine habitat areas. Some alternatives are estimated to result in lower region-wide air quality emissions but higher concentrations of emissions closer to major concentrations of growth.
- Generally, alternatives with a more focused growth pattern (such as Metropolitan Cities and Larger Cities) have potentially lower overall environmental impacts, but high growth areas could have higher localized impacts with higher development impacts on people and/or services. Because less land would likely be required to meet growth needs, growth in rural or natural resource areas could be reduced or avoided. Compact growth also reduces the regional levels of automobile use and congestion, and improves transit use, carpooling, walking and bicycling, which in turn lowers air pollution, water pollution, and energy use. Redevelopment of older properties to today's standards could also improve localized conditions and environmental performance in a wide array of areas, ranging from transportation to energy, hazardous materials, and stormwater. Regionally, governments could provide public services more efficiently and public services and other cultural and educational amenities could be closer to more people. However, the localized costs for providing services and facilities in the highest growth areas would be concentrated, with some governments bearing higher costs than others.
- Alternatives with a more dispersed growth pattern (such as Smaller Cities or Growth Targets Extended) have potentially higher overall environmental impacts, and higher impacts on natural resources and/or plants and animals. Because growth would be more spread out throughout the region, some of the localized impacts of growth would be less intensive for any given community. With growth spread through the region, there could be more pressure to develop in rural and resource areas. Regionally, higher levels of automobile use, higher levels of congestion, and lower levels of transit use and other travel modes are estimated. There could also be less pressure to redevelop underutilized areas within existing cities. The costs of providing public services would likely be higher, but would be spread among governments throughout the region.
- The potential impacts to people and/or services are more ambiguous to judge than the potential impacts on resources, plants and animals. For example, denser housing can have impacts on existing residents but may provide additional housing opportunities for new residents. Similarly, spreading growth throughout the urban area may allow more people to live in single-family homes, but it can also potentially increase the number of families that need to have additional automobiles. On the other hand, growth on aquifer recharge lands, increases in air pollution emissions, or development adjacent to, or in, significant habitat areas create impacts to natural resources, plants and animals that are more technically straightforward to judge.

KEY FINDINGS REGARDING EACH ALTERNATIVE

- The ***Growth Targets Extended Alternative*** allocates residential growth to the densest urban areas and the least dense outlying areas, while concentrating employment growth into the densest urban areas. This results in the greatest distances between jobs and housing. While having some of the characteristics of concentrated growth, the alternative also has a relatively high level of growth in the outlying areas, thereby sharing some of the characteristics of dispersed growth.
 - This alternative is estimated to have the highest adverse impacts on the transportation system, the highest air pollution emissions, and some of the highest potential impacts to the region's natural resources.
 - At the same time, it also provides many of the benefits of compact growth, such as placing a high number of the region's residents and employees near key public services, major transportation networks, and cultural and historic resources (which, if protected, provides an opportunity for access and association). This allocation also allows more land and economic development in the rural area than some of the others, which may be a benefit to some residents and businesses in these areas.
 - This approach has mixed results regarding serving the region's minority and low-income residents. This approach results in a concentrated commercial land use pattern in areas that have higher levels of transit service. However, because it spreads residents throughout the region, it potentially makes the connection between jobs, homes and services more difficult to serve by transit.
 - This alternative has the potential for an economy of scale for positive actions such as brownfields redevelopment, and potentially increased revenue for retrofit and upgrades to existing, older infrastructure.



- The ***Metropolitan Cities Alternative*** results in the most focused growth pattern, allocating residential and employment growth to the densest urban areas, and decreasing growth in the least dense outlying areas as compared to Growth Targets Extended.
 - This alternative shares, and intensifies, some of the localized impacts of Growth Targets Extended for metropolitan cities, including crowding, economies of scale for brownfields redevelopment, and the higher potential need for retrofits to older infrastructure.
 - There would likely be much greater density in already denser urban areas, which could impact existing neighborhoods. It would have perhaps the highest impact on already degraded urban waterways, and result in the highest levels of potential exposure to traffic, air pollution, noise and hazardous waste sites for residents and employees in these areas.
 - This alternative is estimated to result in the lowest levels of regional vehicle use, higher transit ridership levels, lower levels of congestion and delay and lower levels of air pollution emissions at the regional level. This alternative requires less land to meet population and employment growth needs, resulting in lower levels of development and associated infrastructure in the region's more pristine areas.
 - For the region's general population as well as its minority and low-income residents, this alternative is likely to have better access between employment, services, and residences through transit. It also has the potential for more multifamily housing development, and an increased potential for providing more affordable housing units in areas with better transit service than the other alternatives.
- The ***Larger Cities Alternative*** results in the second most focused growth pattern, allocating residential and employment growth in the larger suburban areas, with more moderate amounts of growth in the densest urban areas as compared to Metropolitan Cities Alternative.
 - This alternative shares some of the potential benefits of the Metropolitan Cities Alternative with high transit levels, lower levels of congestion and delay, lower levels of air pollution emissions at the regional level, and lower levels of development and infrastructure in or near the region's more pristine areas.
 - Growth in the larger suburban cities would result in higher levels of urbanization than exists today, and higher localized impacts such as traffic, air quality, noise, and redevelopment.
 - This alternative's impacts diverge from Metropolitan Cities primarily in its impacts within the region's densest areas. By shifting population and employment growth from the metropolitan cities to the largest suburban cities, some transportation performance measures improve, and air pollution emissions decrease, and the potential intensification of metropolitan cities is reduced and spread over many more cities (meaning, impacts in more areas, but at a potentially lower level).
 - For the region's minority and low-income residents, this alternative is likely to be fairly similar to Metropolitan Cities. Differences could exist in housing affordability and transit access between residences and jobs and services.
- The ***Smaller Cities Alternative*** results in the most dispersed growth pattern, allocating residential and employment growth to the smallest and freestanding suburban cities and to the outlying areas, and significantly reducing growth in the dense urban areas as compared to the other three alternatives.
 - This alternative shares, and is estimated to increase, some of the regional adverse impacts of Growth Targets Extended, including high impacts on the transportation system, high levels of air pollution emissions, and the highest potential impacts to the region's natural areas and species. This alternative has the highest amount of growth allocated close to the region's urban growth area boundary and near natural resources areas, creating the highest potential for conversion of land.
 - This alternative's impacts diverge from Growth Targets Extended in that it allocates little growth to the region's densest areas, meaning the adverse and positive impacts described for the Metropolitan Cities and Larger Cities alternatives are not likely to occur in these denser areas. Conversely, localized impacts would occur in smaller cities and towns, in the unincorporated urban growth area, and in the rural area.
 - The impacts to public services and facilities are estimated to be the highest under this alternative, with the highest anticipated need for extensions of services and facilities into areas that are currently not planning for major improvements or investments, and with lesser potential for economies of scale.
 - For minority and low-income residents, this alternative results in a commercial pattern that is the most difficult to serve by transit. Also, public services and facilities are likely to be more spread throughout the region. These factors may increase costs and create difficulties for accessing employment and services.



DESCRIPTION OF ANALYSIS AND SUMMARY OF POTENTIAL IMPACTS TABLE

Note: Names of the regional geographies are shown in lower case and shortened (i.e., metropolitan cities is referred to as metro cities, core suburban cities is referred to as core cities, etc.) and the names of alternatives are shown in upper case.

5.1 – Population, Employment, and Housing

Contents and Analysis

This chapter describes historical and current population, employment and housing characteristics in the central Puget Sound region. Some highlights regarding how these characteristics could potentially be impacted under the growth distribution alternatives are noted below.

Impacts Common To All:

- All of the alternatives increase the number of people, jobs, and housing in the region. The alternatives vary by location in terms of mix of uses, allocations to each county, and allocations to the regional geographies.
- The alternatives vary the mix of population and employment allocated to each county. Alternatives that allocate comparable amounts of both population and employment growth to given geographies are likely to result in better job-housing balances.
- Where growth occurs, the pattern and type of housing and employment sites would vary by alternative. The alternatives that focus growth the most would likely involve more multifamily or mixed-use developments, whereas more alternatives that disperse growth could allow more single-family development.

Characteristics of Alternatives/Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Second highest levels of population and employment growth in Kitsap, Pierce & Snohomish. • Population distributed throughout region, with focus in metro cities, as well as unincorporated urban and rural areas (higher than other alternatives). Employment focused in metro and core cities. Rural is lower than in other alternatives. • The amount of population in the smaller cities and unincorporated urban areas would double by the year 2040 as compared to the amount that existed in the year 2000. 	<ul style="list-style-type: none"> • Highest levels of population & employment growth in King. • Population and employment focused in metro cities, core cities, and larger cities. • Population shifted to metro cities, core cities, and larger cities from unincorporated urban and rural areas. Employment very similar to Growth Targets Extended, meaning little shifting of allocations as under Growth Targets. • The amount of employment in larger cities and rural areas would double by the year 2040. 	<ul style="list-style-type: none"> • Second highest levels of population & employment growth in King. • The amount of employment in Kitsap & Snohomish would double by 2040. • Population and employment focused in core and larger, then metro cities. • Population shifted to core and larger cities from unincorporated urban, rural, then metro cities. • Employment shifted from metro cities. • The amount of population in core cities would double by the year 2040. • The amount of employment in larger cities would grow by four times by the year 2040. • The amount of employment in unincorporated urban and rural areas would double by the year 2040. 	<ul style="list-style-type: none"> • Highest levels of population & employment growth in Kitsap, Pierce & Snohomish. • The amount of employment in Kitsap, Pierce & Snohomish more than double by 2040. • Population and employment focused in smaller cities and unincorporated urban areas. • Population and employment shifted to smaller cities and unincorporated urban areas from metro cities and core cities. • The amount of population in smaller cities would triple, and employment would grow by almost four times by the year 2040. • The amount of population in unincorporated urban would more than double and the amount of employment would grow by over four times by the year 2040. • The amount of employment in rural areas would triple by 2040.

Common Impacts to Housing

- All alternatives have varying levels of potential for displacement of employment sites and housing through redevelopment. This would typically occur in urban areas that today have less intensive development, and where capital costs are comparatively low. However, new development could create additional supply of jobs and housing sites.
- All the alternatives would likely produce price pressure on housing costs. All else held constant, housing costs are typically lower, per-unit, for multifamily versus single-family. Alternatives that result in higher levels of non-single-family homes (multifamily, townhouses, condominiums) may allow for a wider range of homeownership opportunities at varying price levels.
- Costs for housing, and affordable housing, are based on a complex set of site-specific factors. Redevelopment and infill are complex and urban land prices are high. At the same time, cost of living factors (particularly the potential for additional transportation costs) can be higher in outlying areas.



Distinct Impacts to Housing			
Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> Potentially high amounts of multifamily in denser urban areas and single-family in less dense outlying areas. 	<ul style="list-style-type: none"> Likely the highest amount of multifamily housing of any of the alternatives, although in cities that are used to having this type of housing development. 	<ul style="list-style-type: none"> Housing met through a mix of single- and multifamily housing (potentially lower amounts of multifamily than under Metropolitan Cities, and in cities less used to this type of housing development). 	<ul style="list-style-type: none"> Potentially highest amount of traditional single-family housing.

5.2 – Land Use

Contents and Analysis

This chapter discusses existing and planned land use policies and development patterns, as well as the region's overall urban and rural form. Some highlights regarding potential impacts to these policies and development patterns under the growth distribution alternatives are noted below.

Impacts Common To All

- All of the alternatives will change land use conditions in some locations in the region. Where large amounts of growth are allocated, there are potential adverse and positive impacts. These could include crowding, densification, and changes to existing neighborhoods, but also allow for increased amenities, a wider range of lifestyle options and localized revitalization.
- The alternatives vary in terms of their impacts to overall development patterns in the region, consumption of land in less-developed areas, and the future urban to suburban to rural regional form.
- The allocations will affect how many jurisdictions could need to revisit their comprehensive plans to ensure that they are planning to accommodate a sufficient amount of growth.
- The land use changes would typically be most intensive in the regional geographies that are the focus of the alternative's growth pattern. The Growth Targets Extended Alternative would distribute growth among a broader array of geographic classes, while the others could more than double the amount of growth for some cities.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> Overall densification throughout region, especially in the most and least developed areas. Second most consumption of land in the unincorporated urban and rural areas through new development. Changes to region's urban and rural form are widespread. Land use could potentially change in all parts of the region from what exists today. 	<ul style="list-style-type: none"> Densification in already heavily developed areas through redevelopment of less dense properties. Less change elsewhere than under Growth Targets Extended. Metro cities would likely need to revise plans to allow higher-intensity development in local areas targeted for growth. Least consumption of land in the unincorporated urban and rural areas. The most differentiation would exist between the region's urban and rural areas. Land use in the less developed parts of the region might not change significantly from what exists today. 	<ul style="list-style-type: none"> Densification of suburban areas through redevelopment of less dense properties as well as new development. Less change elsewhere than under Growth Targets Extended. Larger cities and core cities could need to revise plans to allow higher amounts of growth. Least consumption of land in the unincorporated urban and rural areas. The region would have two tiers of urban, and much less developed areas. Land use in these less developed parts of the region might not change significantly from what exists today. 	<ul style="list-style-type: none"> Densification in outlying areas through new development, and much less change in currently denser urban areas than the other alternatives. Smaller cities, which typically have less high-density development, would likely need to substantially revise their plans to accommodate higher amounts of growth. Most consumption of land in the unincorporated and rural areas through new development. The least differentiation would exist between the region's urban to rural areas. Land use in the most urban parts of the region might not change significantly from what exists today.

Distinct Impacts (continued)

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> All jurisdictions might need to plan for more residential growth than they currently have planned for in their local plans, based on their adopted residential growth targets for 2022/2025. Estimates of proximity to transit (population and employment within ¼ mile of existing or planned transit routes) are the second lowest, with about 6,000,000 people living and working close to transit routes. Estimates of proximity to the urban growth area boundary (population and employment within ¼ mile of either side of currently designated boundaries) are the second highest, with 720,000 people living and working close to the boundary. 	<ul style="list-style-type: none"> Shifts in residential allocations from Growth Targets Extended means that fewer jurisdictions, including metro cities, core cities and larger cities, might need to plan for more growth than they currently have planned for in their local plans. There could be the need to plan for much less growth in unincorporated urban and rural areas, and only a little more in smaller cities than adopted targets. Proximity to transit estimated to be highest, with almost 450,000 more people living and working near transit than Growth Targets Extended. Proximity to the urban growth area boundary estimated to be the lowest, with about 95,000 fewer people living and working near the boundary than Growth Targets Extended. 	<ul style="list-style-type: none"> Shifts in residential allocations from Growth Targets Extended means that only core cities and (especially) larger cities might need to plan for more growth than they currently have in their local plans. There could be the need to plan for only a little more in metro cities, less in smaller cities, much less in unincorporated urban, and less in rural areas than adopted targets. Proximity to transit estimated to be second highest, with almost 300,000 more people living and working near transit than Growth Targets Extended, but 150,000 fewer than Metropolitan Cities. Proximity to the urban growth area boundary estimated to be second lowest, with about 70,000 fewer people living and working near the boundary than Growth Targets Extended, but about 25,000 more than Metropolitan Cities. 	<ul style="list-style-type: none"> Shifts in residential allocations from Growth Targets Extended means only smaller cities, unincorporated urban areas and, to a lesser extent, rural areas could need to plan for more growth than they currently have in their local plans. Instead, metro cities, core cities, and larger cities might need to plan for much less. Proximity to transit estimated to be the lowest, with over 250,000 fewer people living and working near transit than Growth Targets Extended and over 700,000 fewer than Metropolitan Cities. Proximity to the urban growth area boundary estimated to be the highest, with over 300,000 more people living and working near the boundary than Growth Targets Extended, and about 400,000 more than Metropolitan Cities.

5.3 — Transportation

Contents and Analysis

This chapter describes the region’s existing and planned transportation services and infrastructure. Some highlights are noted below regarding how the growth distribution alternatives are served by, and impact, the planned system based on a wide range of transportation performance indicators.

Impacts Common To All

- Future transportation conditions under each of the alternatives are based on the region’s existing long-range transportation plan, *Destination 2030* (which plans for transportation out to the year 2030). The alternatives vary in their impacts on the planned transportation system, and each could require some level of change regarding the mix or timing of investments and programs that are currently adopted in *Destination 2030*.
- A number of transportation performance indicators are considered in the analysis, and most are estimated to be different in 2040 than they are in the base year 2000.
 - With the increase in population and employment, *overall tripmaking* in the region is estimated to increase by approximately 72 percent by the year 2040 under all of the alternatives. While overall trips are similar among the alternatives, distinctions exist in terms of trip times and distances (see the subsequent “Distinct Impacts” section). The choice of modes (i.e., driving, transit, nonmotorized) is also more variable than overall number of trips, and therefore dependent on the alternative. This is reflected in the range of estimated increases in trips in the following modes:
 - Single-occupancy vehicle trips are estimated to increase between 63 – 72 percent by the year 2040, but are estimated to constitute a slightly lower share of overall trips.
 - Transit trips are estimated to increase between 76 – 146 percent by the year 2040, but are estimated to constitute a slightly higher share of overall trips.
 - With increased trip making in all modes, the amount of *total vehicle miles traveled* in the region is estimated to increase by between 49 to 67 percent by the year 2040. The choice of facility (i.e., freeway or arterial) is variable among the alternatives:



Impacts Common To All (continued)

- o Vehicle miles traveled on the freeway system are estimated to increase 43 – 53 percent.
- o Vehicle miles traveled on the arterial system are estimated to increase 53 – 81 percent.
- Reflecting the increased number of trips, mode choices, and total miles traveled, the total vehicle hours traveled are also estimated to increase by between 63 to 107 percent by the year 2040. Vehicle hours traveled has a wider range of variability (reflecting more distinctions among the alternatives for this measure) than miles traveled, both for total hours and for hours on freeways or arterials:
 - o Vehicle hours traveled on the freeway system are estimated to increase 48 – 99 percent.
 - o Vehicle hours traveled on the arterial system are estimated to increase 66 – 111 percent.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • In part because of the spatial mismatch and distances between population and employment centers (and therefore a mismatch between trip origins and destinations), this alternative is estimated to result in the longest trip distances and times: <ul style="list-style-type: none"> – Longest average work trip distances. – Longest average non-work trip distances (similar to Smaller Cities). – Longest average work trip times. • Similarly, the allocations are expected to result in the highest amount of miles and hours spent traveling on both freeways and on arterials (although miles on arterials are similar to Smaller Cities). Growth Targets Extended also has the highest amount of delay on both arterials and freeways. • The allocations of residential growth to metro cities, as well as the long trip times and high delay, result in this alternative having the second highest percentage of trips being made by transit. 	<ul style="list-style-type: none"> • The concentration of the greatest shares of both population and employment into the fewest locations creates the most proximity between trip origins and destinations. This is estimated to result in much lower trip distances and times compared to Growth Targets Extended: <ul style="list-style-type: none"> – Shortest average work and non-work trip distances (similar to Larger Cities). – Shortest average work and non-work trip times (similar to Larger Cities). • The allocations, and the ability to make trips using alternative modes (see next set of bullets), result in this alternative having the lowest amounts of arterial miles traveled (although at levels similar to Larger Cities). • The allocations of growth to metro cities and core cities, where transit service is most available, results in the highest estimated percentage of trips being made by transit. In addition, the concentration of growth is estimated to result in the highest percentage (by a large margin) of “activities” (such as retail, entertainment, schools) being accessible by transit. • For similar reasons, this alternative is estimated to have the highest percentage of walking or biking trips. 	<ul style="list-style-type: none"> • While still focused in the urban area, this alternative spreads population and employment over a larger area than under Metropolitan Cities, although it is more focused than Growth Targets Extended or Smaller Cities. This alternative also puts new growth closer to residential concentrations that existed in 2000. These factors are estimated to result in lower trip distances and times: <ul style="list-style-type: none"> – Shortest average work and non-work trip distances (similar to Metropolitan Cities). – Shortest average work and non-work trip times (similar to Metropolitan Cities). • The allocations under this alternative result in the lowest amounts of total vehicle miles traveled. Interestingly, this alternative is similar to aspects of both Smaller Cities and Metropolitan Cities regarding vehicle miles traveled: <ul style="list-style-type: none"> – Lowest vehicle miles traveled on freeways (similar to Smaller Cities). – Lowest vehicle miles traveled on arterials (similar to Metropolitan Cities). – Lowest vehicle hours traveled and the lowest total amount of delay. • Similar to Metropolitan Cities (but lower), this alternative allocates growth to areas that have higher levels of transit service. This, with the concentration of jobs and residences close together, leads to higher percentages of trips being made using transit, walking and biking. 	<ul style="list-style-type: none"> • This alternative allocates the most amount of growth in the outlying areas of the alternatives. However, population and employment allocations are comparable, creating less of a mismatch between origins and destinations as compared to Growth Targets Extended, which results in the following: <ul style="list-style-type: none"> – Longest average non-work trip distances (similar to Growth Targets Extended). – Longest average non-work trip times. • Even though trip distances and times are some of the highest, the impacts of the trips are not evident so much on the region’s freeways but rather on its arterials: <ul style="list-style-type: none"> – Lowest vehicle miles traveled on freeways (similar to Larger Cities). – Lowest vehicle hours traveled and lowest total hours of delay on freeways. • The allocations under this alternative result in the lowest accessibility of activities by transit, the lowest percentages of trips being made by transit, and the lowest percentage of trips being made by walking or biking.

5.4 – Air Quality

Contents and Analysis

Air pollution comes from many different sources, including industry, transportation, construction, and agriculture. It affects both human health and the natural environment. Some highlights are noted below regarding how the four growth distribution alternatives could impact air quality in relation to a number of pollutants, including particulate matter, carbon monoxide, ozone, toxics and greenhouse gases.

Impacts Common To All

- All of the alternatives would increase urban area activities that create air pollution. This includes pollution from construction activities, commercial and industrial actions, shipping, aviation, and surface transportation.
- Air pollution emissions from motor vehicles are estimated based on travel demand model results. Impacts from other sources are assessed qualitatively. Since the alternatives would affect the projected demand for transportation, which directly causes pollution from vehicle emissions, the alternatives have different air quality results.
- Due to technological improvements (cleaner fuels and vehicles) assumed by the air quality model in forecast years (between 2000 and 2040), emission estimates in the year 2040 are lower than current rates. With these assumptions, where emissions standards exist, none of the alternatives is forecast to cause them to be exceeded.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Given some of the highest transportation results for vehicle miles and hours traveled, as well as hours of delay, this alternative is estimated to have the highest levels of air quality emissions for a number of pollutants: <ul style="list-style-type: none"> – Highest carbon monoxide. – Highest ozone emissions, but at levels similar to Smaller Cities. – Highest fine particulate emissions (known as $PM_{2.5}$), but at levels similar to Smaller Cities. – Highest carbon dioxide emissions (a greenhouse gas), but at levels similar to Smaller Cities. • On coarser particulate matter (known as PM_{10}), which is estimated in three specific industrial areas, the results are more varied: <ul style="list-style-type: none"> – Second lowest in Kent. – Second highest in the Duwamish area. – Second highest in Tacoma. 	<ul style="list-style-type: none"> • Given some of the lowest transportation results, this alternative is estimated to have some of the lowest levels of emissions: <ul style="list-style-type: none"> – Second lowest in carbon monoxide. – Lower ozone emissions, at levels similar to Larger Cities. – Lower fine particulate emissions ($PM_{2.5}$), but at levels similar to Larger Cities. – Lower carbon dioxide emissions, but at levels similar to Larger Cities. • On coarser particulate matter (PM_{10}), the concentration of growth near the three specific industrial areas results in this alternative having the highest levels of emissions in the Duwamish area and in Tacoma. 	<ul style="list-style-type: none"> • Given some of the lowest transportation results, this alternative is estimated to have some of the lowest levels of emissions: <ul style="list-style-type: none"> – Lowest in carbon monoxide. – Lower ozone emissions, at levels similar to Metropolitan Cities. – Lower fine particulate emissions ($PM_{2.5}$), but at levels similar to Metropolitan Cities. – Lower carbon dioxide emissions, but at levels similar to Metropolitan Cities. • On coarser particulate matter (PM_{10}), the movement of growth from the metro cities to the larger cities results in this alternative having the highest levels of emissions in Kent, but second lowest in the Duwamish area and the lowest in Tacoma. 	<ul style="list-style-type: none"> • The transportation results for this alternative were more variable than the others (for example, having the lowest vehicle miles traveled on freeways but the highest on arterials). This results in a variable set of results on levels of air quality emissions on a number of pollutants: <ul style="list-style-type: none"> – Second highest carbon monoxide. – Second highest ozone emissions, but at levels similar to Growth Targets. – Second highest fine particulate emissions ($PM_{2.5}$), but at levels similar to Growth Targets. – Second highest carbon dioxide emissions, but at levels similar to Growth Targets. • On coarser particulate matter (PM_{10}), the movement of growth away from metro cities and larger suburban cities is estimated to result in the lowest emissions in Kent and the Duwamish area, and the second lowest in Tacoma.



5.5 – Ecosystems

Contents and Analysis

This chapter summarizes existing ecosystem conditions and features in the region and refers to natural resource features and conditions, specifically vegetation, wetlands, streams, lakes and other waterbodies, marine resources, fish, and wildlife. Some highlights are noted below regarding how the alternatives could impact areas identified as having regionally significant habitats, and the overall functioning of the region's ecosystems.

- The majority of ecological damage occurs with habitat loss through development. The initial development actions, including clearing, grading, and the change in land surface, have the most impacts, meaning that new development has significantly higher potential impacts than redevelopment.
- Development in or near pristine areas has a far greater impact than development in already-developed areas.
- Transportation networks contribute significantly to the transformation of land and are a key factor in the fragmentation and isolation of habitat. Further, transportation-related pollutants are a primary source of damage to ecosystems.

Impacts Common To All

- All of the alternatives are likely to reduce and impact habitats and ecosystem functions compared to today through their potential to remove vegetation, increase paved or impervious surfaces, increase runoff, and provide more sources and quantities of water quality pollutants. The region's increased demand for water supply could also affect conditions in the region's rivers, streams and lakes, impacting aquatic species.
- The highest impacts would likely occur due to loss or alteration of habitat due to development, with redevelopment having a much lower potential for further impacts than new development. Redevelopment also provides the potential for retrofits to infrastructure and redevelopment of properties to undo existing damage and reduce the overall net impact of growth.
- The region's increased demand for water supply could affect conditions in the region's rivers, streams, and lakes, which would impact aquatic species.
- Concentrating growth has the potential to create economies of scale for mitigation strategies and/or for conservation actions. For instance, a more concentrated growth pattern could use less land and allow more natural areas to be preserved.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Growth in outlying areas results in second highest potential risk of adverse impacts to areas identified as supporting regionally significant habitats. • Growth allocations lead to second highest risk to less developed (and therefore potentially more pristine) lands and habitat areas through development and associated infrastructure-related impacts. • Highest potential air and transportation pollution impacts to ecosystems. • High potential need for programs to protect and potentially restore/enhance urban ecosystems. • High potential need for conservation programs. 	<ul style="list-style-type: none"> • Lowest potential risk of adverse impacts to identified regionally significant habitats. • Concentration of growth into already developed areas results in lowest risk to pristine lands and habitat areas through development and associated infrastructure-related impacts. • Second lowest potential air and transportation pollution impacts to ecosystems, similar to Larger Cities. • High potential need for programs to protect, restore, and enhance urban ecosystems. 	<ul style="list-style-type: none"> • Very similar to Metropolitan Cities in risk of adverse impacts to regionally significant habitats. • Shift of growth from metro cities (currently most developed) to larger cities (less developed) and double the amount of growth in unincorporated urban spreads out growth and therefore potentially increases risks to ecosystems as compared to Metropolitan Cities. • Least potential air and transportation pollution impacts to ecosystems, similar to Metropolitan Cities. 	<ul style="list-style-type: none"> • Highest potential risk of adverse impacts to identified regionally significant habitats. • Growth in least developed areas results in highest potential for impacts on remaining pristine lands and habitat areas. • Second highest potential air and transportation pollution impacts to ecosystems.

Distinct Impacts *(continued)*

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Growth allocations result in second highest potential risk of conversion of lands from rural to urban (see 5.2 – Land Use), and/or from natural resource to rural or urban. • Estimates of proximity to natural resource areas (population and employment within ¼ mile of designated lands) are the second highest, with over 300,000 people living and working close to these areas. 	<ul style="list-style-type: none"> • Lower than Growth Targets Extended, and about equal to Larger Cities, regarding the risk of conversion of lands. • Proximity to natural resource areas estimated to be similar to Larger Cities. These alternatives are estimated to be about 50,000 fewer people living and working near these areas than Growth Targets Extended. 	<ul style="list-style-type: none"> • Lower than Growth Targets Extended, and about equal to Metropolitan Cities, regarding the risk of conversion of lands. • Similar proximity to natural resource areas as Metropolitan Cities (but with about 7,500 more people living and working near these areas than that alternative). 	<ul style="list-style-type: none"> • Highest potential need for conservation programs. • Highest potential risk of conversion of lands. • Proximity to natural resource areas estimated to be highest, with about 45,000 more people living and working near these areas than Growth Targets Extended and 95,000 more than Metropolitan Cities.

5.6 – Water Quality and Hydrology

Contents and Analysis

Water resources are key elements of this region's setting and overall quality of life. This chapter describes existing water resources and hydrology, and covers five primary topics: (1) impervious surfaces and stormwater runoff, (2) impaired waters, (3) sole source aquifers, (4) large contiguous floodplains, and (5) wetlands, lakes, rivers and streams. Some highlights are noted below regarding how these resources could potentially be impacted under the growth distribution alternatives.

Impacts Common To All

- All of the alternatives have the potential to remove natural landscapes and create new impervious surfaces, including pollution-generating surfaces such as roads and parking lots (however, levels of imperviousness, and therefore impacts, vary among the alternatives). Regional growth has the potential to aggravate existing water quality problems in the region's rivers, lakes and streams, as well as in the Puget Sound itself. Impacts would be due to urban construction, stormwater runoff, wastewater discharges, and changes in temperature and water quantity.
- Development could increase impervious surfaces over sole source aquifers, which reduces the ability of groundwaters to be replenished by rainfall filtering through the ground.
- More paved or impervious surfaces, along with development in floodplains, would increase the potential for increased flooding. Development would also have the potential to affect watersheds by filling wetlands, and further developing the areas adjacent to the Puget Sound and lakes, rivers and streams.
- Growth would require additional sources for water supply, and could reduce natural flows in rivers, lakes and streams. Water withdrawals from aquifers can also reduce water flowing into rivers, lakes and streams.
- Development in rural areas is more likely to cause impacts to water resources due to septic systems, proximity to more pristine stretches of rivers, and proximity to floodplains (which occur throughout the region, but many are associated with agricultural lands).
- Alternatives that reduce vehicle miles and hours traveled (and therefore water pollution due to roadway runoff) are likely to have fewer impacts.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Some of the highest levels of impacts to water quality and hydrology (similar to Smaller Cities) because of second highest rural area growth and highest vehicle miles traveled and delay. • Highest potential impacts to water quality and hydrology from roadway runoff pollutants. 	<ul style="list-style-type: none"> • Lower levels of impacts (similar to Larger Cities) because of lower rural area growth, and lower levels of vehicle miles traveled and delay. • Some of the lowest potential impacts to water quality and hydrology from roadway runoff pollutants. 	<ul style="list-style-type: none"> • Lower levels of impacts (similar to Metropolitan Cities) because of lower rural area growth, and lower levels of vehicle miles traveled and delay. • Similar to Metropolitan Cities in terms of potential impacts to water quality and hydrology from roadway runoff pollutants. 	<ul style="list-style-type: none"> • Some of the highest levels of impacts (similar to Growth Targets Extended), with more growth but less vehicle miles traveled and delay. • Similar to Growth Targets Extended in terms of potential impacts to water quality and hydrology from roadway runoff pollutants.



Distinct Impacts *(continued)*

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> Estimated to result in the second highest amount of land across the region that falls into the highest impervious surface category (greater than 30 percent), with 1,020 miles in that category. 	<ul style="list-style-type: none"> Least amount of land estimated to be in highest impervious surface category, with about 260 square miles less than Growth Targets. 	<ul style="list-style-type: none"> About the same amount as Metropolitan Cities in terms of land in highest impervious surface category (with about 240 square miles less than Growth Targets Extended). 	<ul style="list-style-type: none"> Highest amount of land estimated to be in highest impervious surface category, with about 90 square miles more than Growth Targets Extended and about 170 square miles more than Metropolitan Cities.

5.7 – Public Services and Utilities

Contents and Analysis

Public services and utilities reviewed include: (1) solid waste collection and disposal, (2) sanitary sewer systems, (3) water supply, (4) fire protection and police services, (5) health and emergency medical services (including hospitals), and (6) schools. Some highlights are noted below regarding potential impacts to public services and utilities under the growth distribution alternatives.

Impacts Common To All

- Growth patterns are likely to mean increased demand, under each alternative, for all public services and facilities. Effects on service levels and costs of service are based primarily on population and proximity, and will therefore vary by county and service area for each alternative.
- Economies of scale for investments exist for most service areas. In general, larger systems and facilities have advantages of efficiency and associated ability to efficiently increase size of operations, although providers generally plan for timeframes that are longer than local comprehensive plans.
- Under growth management, all jurisdictions are planning for growth in capital facilities and utilities. The alternatives, however, represent different levels of growth than under currently adopted plans. Those jurisdictions and areas that are already planning for major growth in demand will be less impacted (and may have greater options) than areas planning for a more limited amount of growth.
- Alternatives (such as Metropolitan Cities and Larger Cities) that increase demand closer to existing facilities are likely to be more cost-effective to serve than those alternatives (such as Growth Targets Extended and Smaller Cities) that build far from existing facilities. However, site-specific issues are a key factor that will ultimately determine actual costs.

Common Impacts for Solid Waste

- Solid waste generation is anticipated to increase over time, with potential need for expansions in capacity to process it – particularly for transfer stations (increased landfill needs more likely met outside the region).
- Increases in demand could possibly be met through expanded hours of service or other approaches that minimize the need for additional facilities that are difficult to site.
- Density increases create potential to increase different types of recycling and thereby reduce waste.

Distinct Impacts

	Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
Solid Waste	<ul style="list-style-type: none"> High potential need for increased services and for increased facilities in most cities. Potential need to change collection and management methods to accommodate increased demand in outlying areas. Potential economy of scale for waste reduction in metro cities. Kitsap and Snohomish have second highest demand and potential for new or expanded stations in outlying areas. 	<ul style="list-style-type: none"> Highest potential need for increased services and for increased facilities in metro cities and then core cities. Potential for improved waste reduction and recycling in metro cities and in core cities. 	<ul style="list-style-type: none"> Similar to Metropolitan Cities in urban areas. Highest potential need for increased services and for increased facilities in larger cities and then core cities. Potential for improved waste reduction and recycling in larger cities and in core cities. 	<ul style="list-style-type: none"> Highest potential need for additional services and facilities in smaller cities, and unincorporated urban and rural areas. Similar to Growth Targets Extended, potential need to change collection and management methods to accommodate increased demand in outlying areas. Highest potential impacts in outlying areas to Kitsap, Pierce and Snohomish counties.



Common Impacts for Wastewater Systems

- Under all alternatives, current sewer capacity likely not sufficient and would likely require system upgrades and expansions.
- In general, larger systems and facilities have advantages of efficiency and associated ability and resources to increase size of operations.
- Growth in smaller cities and unincorporated urban areas could impact smaller sewage systems and may necessitate change in technology, which has cost implications.
- Smaller city systems may need expansions, or may choose to contract with regional providers or adjacent jurisdictions. In all jurisdictions that are the focus of the alternative's growth, siting new treatment facilities is likely difficult.

Distinct Impacts

Wastewater Systems

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Potential to require expansion of sewers into currently underserved areas. • Creates demand for sewers in areas currently planning for major upgrades, with demand distributed throughout the region to more cities and agencies, in a manner most similar to existing plans. • Extending service could have high per unit costs given the distances. • Growth in rural areas would likely be served by septic systems and could have site-specific impacts on water quality. 	<ul style="list-style-type: none"> • Potential to require improvements and possibly expansions in metro cities and core cities. • Creates additional demand for treatment systems in areas currently planning for major upgrades, but systems with even higher capacity would be needed. 	<ul style="list-style-type: none"> • Potential to require improvements and possibly expansions in larger and then core cities. • Creates demand to extend sewer capacity to areas currently not expecting major upgrades, and demand would likely greatly exceed planned systems capacities for many of the larger cities. 	<ul style="list-style-type: none"> • Potential to require expansion of sewers into currently underserved areas. • Creates demand for sewers in smaller cities and outlying areas, most of which are currently not expecting major upgrades. • Extending service could have high per unit costs given the distances. • Growth in rural areas would likely be served by septic systems and could have site-specific impacts on water quality.

Common Impacts for Water Supply

- Under all alternatives, current water capacity may not be sufficient and could require upgrades to some systems, perhaps by 2020. Additional supply will potentially be needed by 2020.
- More options and system flexibility exist to meet future water supply and demand in larger population-service areas (although growth in these areas could require retrofits and expansions of service/facilities).
- Impacts could be more severe in areas not currently planning for major increases, as water rights processes are complex and extensions are costly.
- Other issues, such as the Endangered Species Act and climate change, make long-range regional analysis and forecasting more uncertain.

Distinct Impacts

Water Supply

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Creates additional pressure for meeting demand in areas already planning for upgrades. • Potential to use reclaimed water in metro cities and other urban areas where concentrations of growth support economies of scale to fund these types of investments. • Growth in unincorporated urban and rural areas have the potential to impact water quality and hydrology (see 5.6 – Water Quality). 	<ul style="list-style-type: none"> • Meeting demand in metro cities and core cities could likely require expanding existing programs, plans, and investments. • High potential to use reclaimed water. • Lesser impact on groundwater in Kitsap and Pierce. • Lesser impact on Snohomish utilities, but still some need for investments in metropolitan cities in Snohomish. 	<ul style="list-style-type: none"> • Meeting demand in larger and then core cities could likely require additional planning to accommodate increased levels of growth in these cities. • Some potential to use reclaimed water. • Decreased growth in metro cities may free water supply for diversion to larger cities. • Lesser impact on groundwater in Kitsap and Pierce. • Lesser impact on Snohomish utilities. 	<ul style="list-style-type: none"> • Highest potential impact given that little planning has been done to address the demand and pressure created for major upgrades under this alternative. • Smaller cities may be impacted because fewer existing or planned supply options exist for areas outside the contiguous urban growth area. Could lead to more reliance on groundwater (some counties already are struggling to meet groundwater supply demands). • Unknown potential for using reclaimed water.



Distinct Impacts <i>(continued)</i>				
	Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
Water Supply <i>(continued)</i>	<ul style="list-style-type: none"> Rural growth allocations could require extensions to serve these areas, or drilling additional wells in some areas. Rural growth allocations could lead to potential impacts in Kitsap (and to lesser extent in Pierce) from septic systems on groundwater drinking supply. 			<ul style="list-style-type: none"> High levels of growth in unincorporated urban and rural areas have the potential to impact water quality and hydrology (see 5.6 – Water Quality). Rural growth allocations could require extensions to serve these areas, or drilling additional wells in some areas. Rural allocations could mean higher impacts in Kitsap (and to lesser extent in Pierce) from septic systems on groundwater drinking supply.

Impacts Common To All

- Under all the alternatives, added service could be needed, and response times could increase in some areas. This is particularly an issue for unincorporated "islands."
- Demands on fire and police correlate with growth, meaning there will be localized differences regarding need under each of the alternatives.
- More options exist to meet future supply and demand in larger population-service areas (although growth in these areas could require additional staffing, or retrofits and expansions of existing service/facilities).

Impacts Common To All

- Industry-wide consolidation has the potential to concentrate facilities into fewer locations, with the likelihood that they will be in urban and suburban jurisdictions. Growth allocations to unincorporated urban and rural areas may locate residents and employees in areas more distant from facilities, which could increase response times.
- Under all the alternatives, demands on health, hospital, and emergency services correlate with growth, meaning there will be localized differences regarding need under each of the alternatives.

Impacts Common To All

- Under all the alternatives, demands on schools correlate with growth, meaning there will be localized differences regarding need under each of the alternatives.
- Alternatives that spread population over a larger distance may lead to increased transportation costs for school districts.
- Alternatives that concentrate growth may lead to higher needs for building retrofits and higher staffing levels, but fewer new facilities.

5.8 – Parks and Recreation

Contents and Analysis

This chapter discusses parks and recreation resources with a focus on locally owned parks. The chapter includes a review of typical impacts due to growth. It also includes an analysis of park-to-resident ratios and population and employment proximity to parks, and general qualitative analysis of park maintenance, use, and development issues. Some highlights are noted below regarding how these resources could serve and be impacted by the growth distribution alternatives.

Impacts Common To All

- With growth, there would be increased competition for limited facility space, conflicts between different types of recreational users, and displacement of undeveloped open space.
- All alternatives could cause increased demand for and use of existing parks and recreation facilities. In some locations, facilities might be unable to meet demand without expansions or new facilities and services, and increases in maintenance. The increased use has potential to adversely impact some visitors' experiences, while also potentially enlivening the parks.
- Under all alternatives, park acreage-to-resident ratios decline because the alternatives do not include any additions of parks. Adequacy of the ratios varies among counties, and depends on potential access to major public lands and open spaces.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Potential need for increased maintenance and programming in metro cities parks. • Potential need for new parks in unincorporated urban and rural areas, or other approaches for ensuring adequate access and supply of parks. • With increased use due to growth, potential need for cities to continue to assume operation of county parks in less developed areas. • Estimates of parks proximity (population and employment within ¼ mile of existing locally owned parks) are the second lowest with 4,300,000 people living and working close to these resources. 	<ul style="list-style-type: none"> • Highest potential need for increased maintenance and programming in metro cities and then core cities. • Increased competition for land in metro cities could make park development and acquisition more difficult. • Proximity to parks estimated to be highest, with over 300,000 more people living and working near these resources than under Growth Targets Extended. 	<ul style="list-style-type: none"> • Potential need for increased maintenance and programming in larger and then core cities parks. • Potential need for new parks in larger cities. • Increased competition for land in larger cities could make park development and acquisition more difficult, but probably to lesser extent than under Metropolitan Cities. • Proximity to parks estimated to be second highest with over 270,000 more people living and working near these resources than under Growth Targets Extended, but 30,000 less than under Metropolitan Cities. 	<ul style="list-style-type: none"> • Potential need for new parks in smaller cities, and unincorporated urban and rural areas or need for other approaches. • With increased use due to growth, potential need for cities to continue to assume operation of county parks in less developed areas. • Increased competition for land much less a factor for these cities and areas for park development. • Proximity to parks estimated to be the lowest, with 210,000 fewer people living and working near these resources than under Growth Targets Extended and about 510,000 fewer than under Metropolitan Cities.

5.9 – Environmental Health

Contents and Analysis

This chapter focuses on how the growth distribution alternatives can impact the possibility of encountering potentially hazardous materials. Other environmental health topics, such as active living, noise, and air quality are also discussed. Some highlights are noted below regarding potential impacts.

Impacts Common To All

- All of the alternatives would likely lead to redevelopment or development activities that could potentially occur in the presence of hazardous materials. This could increase the risk of exposure or the spread of contaminants. Contaminated sites are most concentrated in established urban areas.
- When new development occurs in areas with previous releases, cleanup and management of the sites would benefit the environment, but the costs to redevelop a contaminated property could be higher.
- Higher intensity urban development could increase human health impacts due to biological, chemical, and social factors. This includes greater numbers of people in areas with higher levels of air pollution, noise, and other forms of pollution. More dense urban forms can also promote higher rates of physical activity, which provides health benefits.
- Existing regulations are likely to significantly limit any additional releases and the creation of new sites. Therefore, under all the alternatives, there is limited potential for creation of new sites.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Moderate level of potential to encounter hazardous sites, similar to Larger Cities. • Second highest potential for cleanup of sites and development of “brownfield” lands, enabled through economies of scale and the need for developable land. 	<ul style="list-style-type: none"> • Highest potential to encounter hazardous sites, given their location in older, urbanized areas. • Highest potential for cleanup and brownfields development (economies of scale). 	<ul style="list-style-type: none"> • Moderate potential to encounter hazardous sites, similar to Growth Targets Extended. • Second lowest, but still higher, potential for cleanup and brownfields development (economies of scale). 	<ul style="list-style-type: none"> • Lowest potential to encounter hazardous sites. • Limited potential for brownfields redevelopment.



5.10 – Energy

Contents and Analysis

This chapter discusses energy issues focusing on the main types of energy in the region, which are electrical power, natural gas, and petroleum. For each of these types, this chapter discusses consumption, sources and availability, and conservation and renewable sources. Some highlights are noted below regarding the potential for impacts to energy under the growth distribution alternatives.

Impacts Common To All

- The population and employment growth in all alternatives will increase overall regional energy consumption compared to today, with more concentrated growth having potential to somewhat reduce consumption levels. Under all the alternatives, more energy sources and expanded energy delivery systems will likely be needed.
- Effects on amount of energy used are based primarily on population, and will therefore vary by county and service area for each alternative (meaning, localized differences). This may result in the need to extend facilities into currently underserved areas.
- For electricity and natural gas, the alternatives are relatively similar in terms of how much increase in consumption is estimated. Differentiations exist among the alternatives for petroleum energy use, primarily having to do with amount of vehicle miles traveled and hours of delay and the impact these have on usage.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Potential need for upgrades and retrofits of infrastructure in metro cities. • Potential need for extending infrastructure to unincorporated urban and rural areas. • Highest total daily vehicle miles traveled and highest total daily hours of delay. • Highest potential energy use. 	<ul style="list-style-type: none"> • Highest potential need for upgrades and retrofits of infrastructure in metro cities. • Second lowest vehicle miles traveled and second lowest delay. • Second lowest energy use. 	<ul style="list-style-type: none"> • Potential need for upgrades of infrastructure in larger cities. • Lowest vehicle miles traveled and lowest delay. • Lowest energy use. 	<ul style="list-style-type: none"> • Highest potential need for extending infrastructure to unincorporated urban and rural areas. • Second highest vehicle miles traveled and second highest delay. • Second highest energy use.

5.11 – Historic, Cultural, and Archeological Resources

Contents and Analysis

The central Puget Sound region has a long cultural history, beginning with indigenous peoples, who lived here in a rich ecosystem. The tools, structures, record of their existence, and of the settlers who came after them, are the Puget Sound region's historic and cultural resources. Some highlights are noted below regarding the potential for them to be impacted under the growth distribution alternatives.

Impacts Common To All

- Growth under all the alternatives near these resources has the potential to adversely impact resources, while also potentially exposing more residents and employees to these resources. Both public, and especially private, development can threaten or remove these resources, making recognition and preservation actions important.
- Alternatives that focus growth in or near older urban areas, waterways, and agricultural lands are more likely to have impacts because historic, cultural, and archeological properties are most commonly associated with these areas.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Allocations to metropolitan cities create second highest potential impact to urban resources through redevelopment. • Second highest potential impact to rural and agricultural area resources through development on these lands. • Given appropriate incentives, increased potential for restoration or reuse of urban historic resources, enabled through economies of scale (but lower than Metropolitan Cities). 	<ul style="list-style-type: none"> • Highest potential impact to urban resources. • Lowest potential impact to rural and agricultural area resources, with smallest allocations to incorporated and unincorporated areas outside contiguous urban growth area. • Highest potential for restoration or reuse. 	<ul style="list-style-type: none"> • Second lowest potential impact to urban resources. • Second lowest potential impact to rural and agricultural area resources. Somewhat higher than Metropolitan Cities given allocations to incorporated cities near edge of contiguous urban growth area. • Lesser potential for restoration or reuse than Growth Targets Extended. 	<ul style="list-style-type: none"> • Lowest potential impacts to urban resources (and lowest potential for restoration or reuse). • Highest potential impacts to rural and agricultural area resources, but highest potential for discovery of new sites and for acquisition.



5.12 – Visual Quality and Aesthetic Resources

Contents and Analysis

For many people, the region is defined by its mountains, water, and abundant greenery as well as the inherent aesthetic qualities characterized by visually diverse, stimulating views of rural landscapes, towns, cities, and prominent structures. Some highlights are noted below regarding potential impacts to the visual setting of the region under the growth distribution alternatives.

Impacts Common To All

- All of the alternatives would require higher levels of development that could add, alter, or remove current visual features in regional and local landscapes.
- Intensification of development in all areas is possible under alternatives, but levels and locations of impacts vary. Intensification could impact vegetation and open spaces, scale and bulk, and the character (mix of uses) of lands, communities, and neighborhoods.
- All alternatives have the potential to enable the development of civic spaces and downtown cores in both larger and smaller cities.
- Many jurisdictions have implemented design programs – from guidelines to advisory boards. New development and redevelopment will occur under these programs, which have the potential for high quality design, and perhaps improvements to existing aesthetic qualities in some areas.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Intensification in scale in currently most-developed areas. • Intensification in scale in unincorporated urban and rural areas. • Impacts to rural character and resources through intensification, including high potential for loss of vegetation and landscapes in rural areas. 	<ul style="list-style-type: none"> • Highest intensification in scale in currently most-developed areas. • High potential for loss of vegetation and open space in metro cities and core cities. 	<ul style="list-style-type: none"> • Second highest intensification in scale in currently most-developed areas. • Potential for loss of vegetation and open space in larger cities and core cities. • Change in scale and character of larger cities, with these cities having much higher levels of employment. 	<ul style="list-style-type: none"> • Highest intensification in scale in smaller cities, and unincorporated urban and rural areas. • High potential for loss of vegetation and landscapes in rural areas. • Change in scale and residential character of these cities and areas, with them having much higher employment levels.

5.13 – Earth

Contents and Analysis

This chapter analyzes the growth distribution alternatives in relation to the region's geologic features, which include earthquakes, landslides/erosion, volcanic hazards, flooding, and coal mine subsidence. Each could cause a disaster, however, the severity of the impact and number of people and properties affected could depend on where and how growth is distributed under the different alternatives. Some highlights are noted below regarding impacts.

Impacts Common To All

- Hazards exist throughout the region. Earthquakes can impact every part of the region, and localized risks may vary. Floodways are more prevalent in agricultural areas, and volcanic hazards are more prevalent adjacent to Mt. Rainier in Pierce County.
- Alternatives that concentrate growth in urban areas expose more population and employees to impacts from localized events. However, urban areas also potentially have higher service levels and greater redundancy of services. Allocations to rural areas spread the risks, but also reduce the potential for higher levels of services.
- Development in rural areas may be near steep slopes, potentially increasing the risk for landslides and erosion.

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Allocations to metro cities mean higher risks for impacts from liquefaction resulting from a seismic event, especially in industrial areas. • Allocations to rural areas and second highest amounts of growth to Pierce mean higher potential risks from volcanic activity. 	<ul style="list-style-type: none"> • Allocations to metro cities mean highest risks for impacts from liquefaction resulting from a seismic event, especially in industrial areas. 	<ul style="list-style-type: none"> • Dispersal of growth within urban area lessens the risk for impacts from liquefaction in industrial areas resulting from a seismic event, as compared to Metropolitan Cities. 	<ul style="list-style-type: none"> • Largest allocations to rural areas and highest amounts of growth to Pierce mean highest potential risks from volcanic activity. • Allocations to rural areas have potential to impact or increase development in floodzones.



Distinct Impacts (continued)

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Allocations to rural areas have potential to impact, or increase development in, floodzones (see 5.6 – Water Quality). 			

5.14 – Noise

Contents and Analysis

This chapter discusses noise impacts based on past noise modeling performed in the region and on other relevant noise information. It focuses on transportation-related noise sources as well as ambient noise characteristics under different development patterns. Some highlights are noted below regarding potential noise impacts under the growth distribution alternatives.

Impacts Common To All

- Urbanization affects noise exposure through proximity (crowding, adjacency to noisy land uses, concentrated transportation activity) and through physical changes such as the replacement of vegetation with paved surfaces and buildings. Noise decreases with distance from the source, making mitigation and design important.
- With growth, there would be more noise from sources such as transportation, construction, maintenance, and other commercial and industrial operations. Noise levels would also increase where the physical environment changes, such as when vegetation is replaced with paved surfaces and buildings.
- The highest noise levels are currently in the most developed areas and this would likely continue under all of the alternatives. The differentiation would be in the number of people located, and therefore exposed, to these higher levels of noise under the different alternatives.
- Noise increases begin to be noticeable when levels double, and become readily perceivable when levels triple. It is less known how different noise levels impact wildlife.

6 – Environmental Justice Discussion

Contents

This chapter describes requirements for metropolitan planning organizations to assess whether actions have disproportionate impacts on minority and/or low-income populations in the region. The chapter describes existing locations and trends for minority and/or low-income populations, and assesses the alternatives to determine if there are disproportionate impacts. Some highlights are noted below regarding impacts.

Analysis and Impacts Common To All

- Nationally and regionally, higher levels of growth in minority and/or low-income populations are predicted in proportion to the general population. While minority and low-income populations are found throughout the region, some historic concentrations exist in older urban areas.
- None of the alternatives is anticipated to result in disproportionately high and adverse effects on minority and/or low-income populations, although the alternatives may vary in the intensity of growth-related impacts that could occur in localized areas.
- Focus groups conducted in 2005 identified affordable housing and the availability of sufficient transit to access employment and services as the most important issues for minority and/or low-income populations.
- Alternatives (such as Metropolitan Cities and to a lesser extent Larger Cities) that concentrate growth in metropolitan cities and core suburban cities are likely to have higher potential positive and adverse impacts. Impacts range from displacement, different housing and potential transportation costs, to better access to employment and services using transit.
- Alternatives (such as Smaller Cities and to a lesser extent Growth Targets Extended) that disperse growth throughout the region, and farther away from areas that have traditionally had the highest concentrations of minority and/or low-income populations are likely to have fewer impacts. For example, while there could be less pressure for displacement, there could also be less access to jobs and services using transit.
- An overall assessment is that minority and/or low-income populations benefit the most from alternatives that direct new growth into areas that are closer to major employment centers and are better served by transit.

General Environmental Justice Analysis

Analysis and Impacts Common To All

- All the alternatives will produce price pressure on housing costs. However, costs for housing, and affordable housing, are based on a complex set of site-specific factors, including unit costs, land costs, costs of associated infrastructure, and more (see 5.1 – Housing).
- For low- and very low-income populations, full cost-of-living considerations must be taken into account, making the analysis of the alternatives more complex and variable.
- All alternatives have varying levels of potential for displacement of minority and/or low-income populations through gentrification, especially if they increase traffic congestion and lead to more market pressure for movement to closer-in areas.
- Displacement is a key issue, particularly for areas that have good access to job centers, comparatively low housing prices, and high architectural values – all of which are more typically found in older urban areas (where minority and/or low-income populations are most concentrated), as compared to suburban and exurban locations.

Housing

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Growth allocations to metro cities could result in a high potential for displacement. • Housing development in metro cities could likely include more non-traditional housing types, such as multifamily, townhouses, and condominiums, which could provide additional home ownership opportunities. 	<ul style="list-style-type: none"> • Similar to Growth Targets Extended, growth allocations to metro cities have a high potential for displacement. • Similar to Growth Targets Extended, there is potential for more non-traditional home ownership opportunities than under the other two alternatives. 	<ul style="list-style-type: none"> • Displacement is likely to be a lesser issue given the more limited concentration of minority and/or low-income populations outside of the metro cities and core cities areas, unless traffic congestion leads to more market pressure in closer-in areas. 	<ul style="list-style-type: none"> • Displacement is likely to be a very minor issue under this alternative, unless traffic congestion leads to more market pressure in closer-in areas.

Employment

Distinct Impacts

Growth Targets Extended Alt.	Metropolitan Cities Alternative	Larger Cities Alternative	Smaller Cities Alternative
<ul style="list-style-type: none"> • Second highest concentration of employment within the region, potentially providing better access to jobs for minority and/or low-income populations. • Development in metro cities could bring new employment opportunities. • Residential growth is spread through the region, likely reducing (although not erasing) the potential positive impacts of concentrated employment growth in areas with higher transit levels. 	<ul style="list-style-type: none"> • Highest concentration of employment within the region. • Greater potential for housing to be close to employment centers, potentially providing better access to jobs for minority and/or low-income populations. • Development in metro cities and core cities could bring new employment opportunities. 	<ul style="list-style-type: none"> • Second highest dispersion of employment within the region. • Allocations result in a commercial land use pattern that is difficult to serve by transit (more than under Growth Targets Extended and Metropolitan Cities, but less than under Smaller Cities), which could create challenges for minority and/or low-income populations. • Development in larger cities and core cities could bring new employment opportunities. 	<ul style="list-style-type: none"> • Highest level of dispersion of employment within the region. • Allocations result in a commercial land use pattern that is the most difficult to serve by transit, creating the most challenges for minority and/or low-income populations. • Development in smaller cities and unincorporated urban areas could potentially lead to the creation of new local activity centers, which might increase employment opportunities.

Analysis and Impacts Common To All

Transportation

- Minority and/or low-income populations are, in general, more transit-dependent than other residents. Alternatives (such as Metropolitan Cities and to a lesser extent Larger Cities) that provide better adjacency and transit access between employment and housing sites have more potential to better serve minority and/or low-income populations.
- Vehicle miles traveled, average trip times, hours of delay, and congestion are likely to impact minority and/or low-income populations similarly to other residents.
- See 5.3 – Transportation, for more information on transit access and other transportation performance results.
- See 5.2 – Land Use, for more information on estimates regarding transit proximity.

Analysis and Impacts Common To All

Air Quality

- Regional-level air quality impacts are the lowest under alternatives that minimize vehicle miles traveled, delay, and maximize transit and walk/bike mode shares (such as Metropolitan Cities and to a lesser extent Larger Cities).
- Local-level air quality impacts are location-dependent. While minority and/or low-income populations are located throughout the region, the highest concentrations are in King County and in older urban areas in the other counties. Alternatives (such as Metropolitan Cities and to a lesser extent Larger Cities) that concentrate growth into these areas are likely to have higher potential exposure to air quality emissions than alternatives (such as Smaller Cities and to a lesser extent Growth Targets Extended) that disperse growth.
- See 5.4 – Air Quality, for more information on air pollution results.



Analysis and Impacts Common To All

- All alternatives could likely require additional infrastructure. For minority and/or low-income populations, the impacts primarily relate to access and cost.
- Alternatives (such as Metropolitan Cities and to a lesser extent Larger Cities) that focus development in areas that have existing infrastructure, or are already planning for additional infrastructure, are generally more likely to provide better access to services and facilities. These types of alternatives have the potential for minimizing the need for new infrastructure and potential for meeting increased demand by augmenting existing facilities and services.
- Understanding the cost implications of retrofitting or expanding existing infrastructure versus building new infrastructure is complex. Generally, the literature suggests that new infrastructure is more expensive, and that the environmental impacts of new infrastructure are likely to be much higher than upgrades to existing infrastructure.
- See 5.7 – *Public Services and Utilities*, for more information.

Analysis and Impacts Common To All

- Local-level exposure to hazardous waste sites and to noise and noisy land uses are location-dependent. While minority and/or low-income populations are located throughout the region, the highest concentrations are in King County and in older urban areas in the other counties (which is where the highest concentrations of hazardous waste sites and noisy land uses are located), increasing the potential impacts.
- Alternatives (such as Metropolitan Cities and to a lesser extent Larger Cities) that concentrate growth into these areas are likely to have higher potential exposure to hazardous waste emissions and to noise than alternatives (such as Smaller Cities and to a lesser extent Growth Targets Extended) that disperse growth.
- For hazardous waste sites, alternatives (such as Metropolitan Cities and to a lesser extent Larger Cities) have greater potential than the others to lead to the cleanup of brownfields or other polluted sites. This would provide an environmental and health benefit to minority and/or low-income populations.
- See 5.9 – *Environmental Health*, for more information on results regarding hazardous waste sites and locations.
- See 5.14 – *Noise*, for more information on results regarding noise related impacts.

D. Next Steps

After the release of the Draft Environmental Impact Statement, the Regional Council will engage in the following steps.

Public Comment Period on Draft Environmental Impact Statement

The public comment period will last 60 days, with the Regional Council doubling the required period in order to encourage additional comments.

Supplemental Draft Environmental Impact Statement with Preferred Alternative and Draft VISION Document

Following public review, the Growth Management Policy Board will work with staff and consultants to incorporate changes, select a preferred growth alternative, and publish a Supplemental Draft Environmental Impact Statement. The preferred growth alternative will be selected from the range of alternatives examined in the Draft Environmental Impact Statement (including the potential for a hybrid of the alternatives) and will be analyzed alongside the other alternatives. A draft VISION document containing revised multicounty planning policies will accompany the Supplemental Draft Environmental Impact Statement. Both are tentatively scheduled for release for additional public comment in mid 2007.

Final Environmental Impact Statement and Final VISION Document

After the second public review period, the Regional Council's boards will work with staff and consultants to incorporate changes and publish a Final EIS and Final VISION document. The tentative schedule is to release the Final EIS and revised VISION in 2008.

Final Review and Action

The Regional Council's policy boards and committees will review and take final action to recommend approval to the Executive Board. The Executive Board will, in turn, make its recommendation to the Puget Sound Regional Council's General Assembly. The Regional Council's General Assembly is scheduled to take action on the updated VISION in 2008 (see *Chapter 3 – Introduction and Background*).

E. Overview of Contents in the Draft Environmental Impact Statement

The Draft Environmental Impact Statement represents a major milestone in the development of a revised and enhanced regional strategy. The primary purpose of the document is to describe and analyze the potential environmental effects of four growth distribution alternatives. The document is not a draft strategy, but rather a tool to help the region's policymakers develop a draft strategy in the coming months.

The Draft Environmental Impact Statement is a plan-level, or non-project, environmental impact statement and is prepared consistent with the State Environmental Policy Act. Due to the scope of a regionwide proposal that spans a 35-year timeframe, the document is complex, but it is structured to allow the reader to understand the most significant and vital information concerning the proposed action, alternatives, and impacts without turning to other documents.

The content of the Draft Environmental Impact Statement is consistent with the requirements of the State Environmental Policy Act for non-project actions (Washington Administrative Code 197 11 440 and WAC 197 11 442) (see *Chapter 1 – Purpose and Need*).

The contents are as follows:

Table of Contents

This includes a table of contents, a list of appendices, and a list of figures.

Fact Sheet

This describes the proposed action, the project proponent and lead agency for EIS review, names the Regional Council's SEPA Responsible Official and contact person, lists necessary licenses and approvals, principal contributors, the date of issue, information regarding the comment period and how to comment, dates of project actions, next steps, related documents, and options for acquiring the document.

Executive Summary

The content of the stand-alone *Executive Summary* is identical to the one in the full Draft Environmental Impact Statement, except the stand-alone version contains a separate comment form.

1. Purpose and Need

This describes the purpose of the VISION 2020 update, the need to update, and the need for environmental review.

2. Regional Environmental Baseline

The Regional Council recognizes that we live in a fragile and interconnected global and regional environment. The Regional Council desires to help provide leadership and stewardship in protecting the region's environment. While not required by the State Environmental Policy Act, the Draft Environmental Impact Statement contains a Regional Environmental Baseline chapter that draws together the regional environmental picture, raises the level of regional environmental analysis, and is meant to be useful for other planning efforts.

The baseline discussion is organized around the following questions: (a) What is the nature of the region's environment? (b) What has been happening to the region's environment over the past 150 years? (c) Who are the region's environmental actors and what are they doing? and (d) What can VISION 2020 contribute? This section does not address future impacts, but instead focuses on what we know today.

3. Introduction and Background

This chapter provides background information regarding the region and the Regional Council. It describes the update process, the role and structure of a preferred growth alternative, and presents the evaluation criteria that will be used for its selection.



4. Definition of Alternatives

This chapter defines the four growth distribution alternatives that are analyzed in the Draft Environmental Impact Statement. The chapter discusses the process to develop the alternatives (the Regional Geographies), and then describes the alternatives in text, map, and tabular formats.

5. Environment Effects and Mitigation

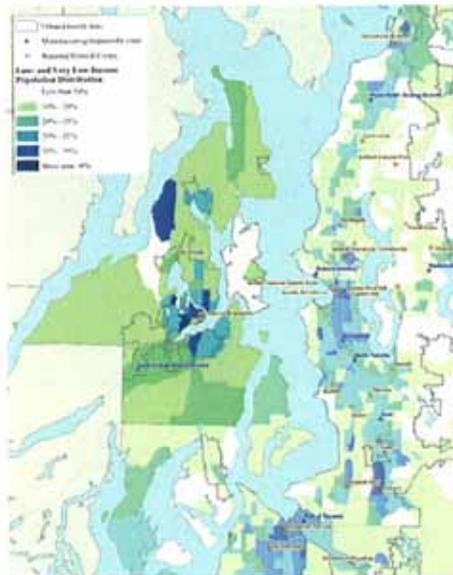
This chapter represents the majority of the Draft Environmental Impact Statement. It provides an overview of the impact analysis approach for a plan-level review. All of the elements of the environment (WAC 197 11 444) are addressed and, pursuant to provisions allowing for additional flexibility for non project proposal environmental impact statements (WAC 197 11 442), are combined in a manner that best supports regional scale analysis of the four alternatives. These include the following:

- *Population, Employment and Housing*
- *Land Use*
- *Transportation*
- *Air Quality*
- *Ecosystems*
- *Water Quality and Hydrology*
- *Public Service and Utilities*
- *Parks and Recreation*
- *Environmental Health*
- *Energy*
- *Historic, Cultural, and Archaeological Resources*
- *Visual Quality and Aesthetic Resources*
- *Earth*
- *Noise*

Discussion of all of the elements of the environment contain the following parts: (a) the affected environment, (b) analysis of alternatives' potential long term impacts, (c) cumulative effects analysis, (d) potential mitigation measures, and (e) potential significant unavoidable adverse impacts.

Note: A summary of the findings of *Chapter 5* is shown in Section C of this *Executive Summary*.

COUNTY-LEVEL ENVIRONMENTAL JUSTICE ANALYSIS



6. Environmental Justice Discussion

While not required by the State Environmental Policy Act, the Draft Environmental Impact Statement contains an analysis of the potential benefits and impacts on minority and lower-income populations (referred to as "environmental justice" populations in federal legislation). This chapter is based on federal guidance, builds on current environmental justice efforts, and contains the following: (a) background on environmental justice statutes and past analysis by the Regional Council, (b) an analysis of the potential impacts of alternatives for defined populations, and (c) a discussion of how to continue to involve minority and lower-income populations in the update process.

Note: A summary of the findings of *Chapter 6* is shown in Section C of this *Executive Summary*.

7. Discussion of Multicounty Planning Policies

The analysis of the four alternatives in the Draft Environmental Impact Statement is part of a process that will lead to an updated VISION 2020 strategy, complete with updated multicounty planning policies. This chapter discusses the existing policies, along with possible revisions for the updated VISION.

Comment Form

To facilitate public comment, the Regional Council has enclosed a comment form at the end of the stand-alone *Executive Summary* and the Draft Environmental Impact Statement.

Appendices

The following appendices are provided:

- A. References*
- B. Glossary/Acronyms*
- C. Evaluation Criteria for Selecting a Preferred Alternative*
- D. Overview of Key Models and Output Data*
- E. Compilation of Issue Papers and Informational Papers*
- F. Existing Multicounty Planning Policies*
- G. List of Preparers*
- H. Distribution List*



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VISION 2020 Update Draft Environmental Impact Statement

Comment Form

What's your vision for the future of the central Puget Sound region? We want your input and need to hear from you!

The public comment period ends on Monday, July 31, 2006.

The public is encouraged to provide thoughts, ideas, and concerns on the Draft Environmental Impact Statement to help select a preferred growth alternative. Comments should be made in one of the following ways:

- By writing to Norman Abbott, State Environmental Policy Act (SEPA) Responsible Official, at the Puget Sound Regional Council, 1011 Western Ave, Suite 500, Seattle WA 98104-1035
- By visiting the Regional Council's Web site www.psrc.org. To submit a comment, go to the Comment section of the VISION update Web page and follow the instructions.
- By sending an email to vision2020update@psrc.org.
- By attending any of PSRC's board or committee meetings. A public comment period is offered at the beginning of each meeting.
- By returning this comment form.

The comments that you make will become part of the public record for this project. Your thoughts will help decision makers develop a preferred alternative. Responses to your comments will be provided in the Final Environmental Impact Statement.

Regional VIEW the Regional Council's monthly newsletter, is one good way to stay informed and involved. To receive a print copy of *Regional VIEW*, visit <http://www.psrc.org/datapubs/pubs/view/viewform.htm>, or call 206-464-7090.

CONTACT INFORMATION:

At a minimum, please provide your name, the county in which you live, and ZIP Code. If you would like to be added to the project mailing list, please fill out the rest of the contact information and check the box below.

NAME _____

ORGANIZATION _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

E-MAIL _____

Check here if you would like to be added to the project mailing list.



This CD contains PDF files of the full
VISION 2020 Update Draft Environmental Impact Statement



Puget Sound Regional Council

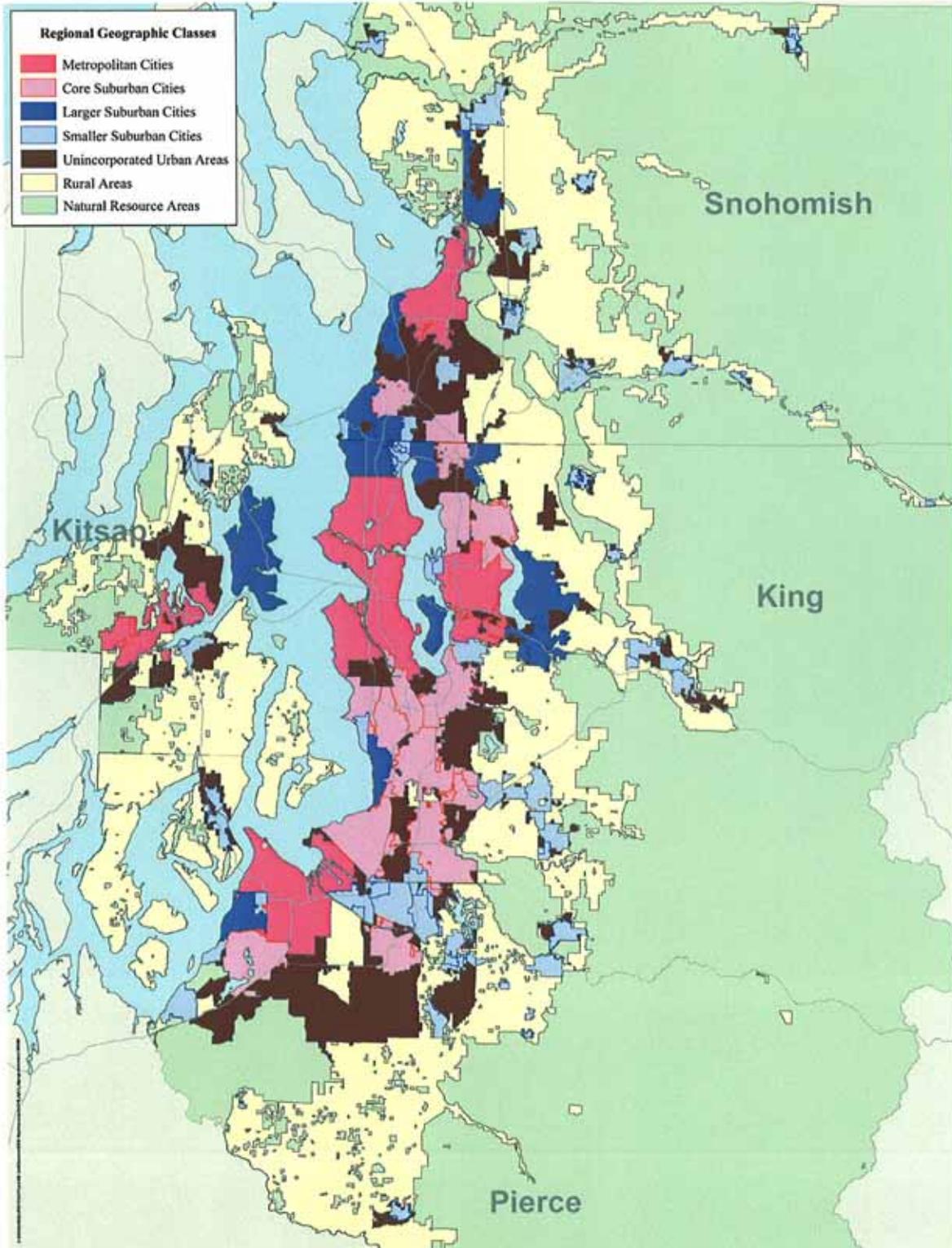
1011 Western Avenue, Suite 500
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psrc.org



FIGURE 4-1: REGIONAL GEOGRAPHIES TABLE

Geography	Description	Jurisdictions
Metropolitan Cities (5 cities, 216 square miles)	The region's largest core cities containing designated Regional Growth Centers. Regional Growth Centers serve as a key framework for the region's adopted long-range multimodal transportation system.	Bellevue, Bremerton, Everett, Seattle, Tacoma.
Core Suburban Cities (14 cities, 197 square miles)	The region's core suburban cities containing designated Regional Growth Centers. Regional Growth Centers serve as a key framework for the region's adopted long-range multimodal transportation system.	Auburn, Bothell, Burien, Federal Way, Kent, Kirkland, Lakewood, Lynnwood, Puyallup, Redmond, Renton, SeaTac, Silverdale (Kitsap County), Tukwila.
Larger Suburban Cities (13 cities, 131 square miles)	The region's larger inner-ring suburban cities with combined population and employment over 22,500. Many of these cities contain important local and regional transit stations, ferry terminals, park and ride facilities, and other transportation connections.	Bainbridge Island, Des Moines, Edmonds, Issaquah, Kenmore, Marysville, Mercer Island, Mountlake Terrace, Mukilteo, Sammamish, Shoreline, University Place, and Woodinville.
Smaller Suburban Cities (52 cities, 159 square miles)	The region's smaller cities and towns. These jurisdictions represent a wide variety of communities, from historic towns and growing new suburban cities, bedroom communities with limited retail and commercial activity and growth potential, to freestanding cities and towns separated from the region's contiguous urban growth area. As such, they have been divided into three sub-categories: <i>Type A – Smaller Cities and Towns (inside Contiguous UGA):</i> These are cities and towns often surrounded by larger suburban jurisdictions, often with greater potential to absorb both population and employment growth than purely residential communities. <i>Type B – Small Residential Towns (inside Contiguous UGA):</i> Small residential enclaves with little capacity to accommodate a great deal of future growth. <i>Type C – Free-Standing Cities and Towns:</i> Cities located outside the contiguous UGA. In the Alternatives, Type A cities receive a larger share of the geographic class allocation of population and employment growth than Types B and C.	<i>Type A – Smaller Cities and Towns (inside Contiguous UGA):</i> Algona, Arlington, Black Diamond, Bonney Lake, Brier, Covington, Du Pont, Edgewood, Fife, Fircrest, Gig Harbor, Lake Forest Park, Lake Stevens, Maple Valley, Medina, Mill Creek, Milton, Newcastle, Normandy Park, Orting, Pacific, Port Orchard, Poulsbo, Ruston, Steilacoom, Sumner. <i>Type B – Small Residential Towns (inside Contiguous UGA):</i> Beaux Arts, Clyde Hill, Hunts Point, Woodway, Yarrow Point. <i>Type C – Free-Standing Cities and Towns:</i> Buckley, Carbonado, Carnation, Darrington, Duvall, Eatonville, Enumclaw, Gold Bar, Granite Falls, Index, Monroe, North Bend, Roy, Skykomish, Snohomish, Snoqualmie, South Prairie, Stanwood, Sultan, Wilkeson.
Unincorporated Urban Growth Areas (289 square miles)	Areas within designated UGAs that are not within the boundaries of incorporated cities and towns.	King, Snohomish, Pierce and Kitsap County unincorporated UGAs.
Rural Areas (1528 square miles)	Lands outside of urban growth areas that are not designated as resource areas under the Growth Management Act.	King, Snohomish, Pierce and Kitsap County rural areas.
Natural Resource Areas (3807 square miles)	As designated under Growth Management Act, resource areas forests, agricultural lands, mining lands, and shorelines. Note: The alternatives did not place additional population and employment in designated resource areas.	King, Snohomish, Pierce and Kitsap County designated natural resource areas.

FIGURE 4-2: REGIONAL GEOGRAPHIES MAP



Summary Comparison of Alternatives

The following tables summarize and compare the four alternatives, which represent a wide, but realistic range of regional growth options for examination in the Draft Environmental Impact Statement. This range will provide flexibility for decision makers to select a Preferred Alternative — and includes the potential for developing a Preferred Alternative that is a hybrid of any of the four alternatives analyzed in this Draft Environmental Impact Statement.

**FIGURE 4-11: REGIONAL GROWTH ALTERNATIVES COMPARISON
— SHARE OF POPULATION AND EMPLOYMENT GROWTH, BY REGIONAL GEOGRAPHY (2000-2040)**

	Metropolitan Cities Pop/Emp	Core Suburban Cities Pop/Emp	Larger Suburban Cities Pop/Emp	Smaller Suburban Cities Pop/Emp	Unincorporated UGA Pop/Emp	Rural Area Pop/Emp
Growth Targets Extended Alt.	26%/45%	17%/28%	9%/7%	11%/9%	24%/8%	13%/3%
Metropolitan Cities Alternative	40%/45%	25%/30%	15%/10%	10%/5%	5%/5%	5%/5%
Larger Cities Alternative	20%/20%	30%/30%	30%/30%	5%/5%	10%/10%	5%/5%
Smaller Cities Alternative	10%/10%	10%/10%	5%/5%	30%/30%	35%/35%	10%/10%

**FIGURE 4-12: REGIONAL GROWTH ALTERNATIVES COMPARISON
— SHARE OF POPULATION GROWTH BY COUNTY (2000-2040)**

	Growth Targets Extended Alternative		Metropolitan Cities Alternative		Larger Cities Alternative		Smaller Cities Alternative	
	2040 Population	Change 2000-2040	2040 Population	Change 2000-2040	2040 Population	Change 2000-2040	2040 Population	Change 2000-2040
King	2,440,000	704,000	2,733,000	996,000	2,705,000	968,000	2,406,000	669,000
Kitsap	386,000	154,000	326,000	94,000	336,000	104,000	370,000	138,000
Pierce	1,097,000	396,000	1,036,000	335,000	995,000	295,000	1,139,000	438,000
Snohomish	1,065,000	459,000	893,000	287,000	952,000	346,000	1,074,000	468,000
Region	4,988,000	1,713,000	4,988,000	1,712,000	4,988,000	1,713,000	4,989,000	1,713,000

Note: Due to rounding, totals may not sum consistently.

**FIGURE 4-13: REGIONAL GROWTH ALTERNATIVES COMPARISON
— SHARE OF EMPLOYMENT GROWTH BY COUNTY (2000-2040)**

	Growth Targets Extended Alternative		Metropolitan Cities Alternative		Larger Cities Alternative		Smaller Cities Alternative	
	2040 Employment	Change 2000-2040	2040 Employment	Change 2000-2040	2040 Employment	Change 2000-2040	2040 Employment	Change 2000-2040
King	2,045,200	765,700	2,061,800	824,400	2,046,200	766,800	1,718,300	438,800
Kitsap	147,100	68,300	146,200	62,300	150,600	71,900	193,500	114,700
Pierce	463,600	200,700	445,700	168,300	429,000	166,000	627,800	364,900
Snohomish	416,300	184,700	419,300	164,600	446,400	214,800	532,600	301,000
Region	3,072,200	1,219,400	3,073,000	1,219,600	3,072,200	1,219,500	3,072,200	1,219,400

Note: Due to rounding, totals may not sum consistently.

More detailed tables and figures depicting potential population and employment changes by city that were used for modeling purposes are provided in *Appendix D*, on the attached compact disk.

Supporting Figures

SIDE-BY-SIDE MAPS SHOWING DEFINITION OF THE ALTERNATIVES

Figure 4-14 compares the definition of the alternatives, based on the VISION 2020 Update regional geographies.



While the region's population is wealthier on average than the nation, and average wages and incomes made significant gains relative to inflation during the 1990s, poverty levels in the region have not changed appreciably since a decade ago. Many lower- and middle-income households today struggle to meet the rising costs of living, particularly for items like housing, health care, and childcare (Comprehensive Economic Development Strategy [CEDs], 2004).

Population Trends

FIGURE 5-1-1: HISTORICAL AND FORECAST REGIONAL POPULATION, CENTRAL PUGET SOUND REGION

	Actual				Forecast				
	1970	1980	1990	2000	2010	2020	2030	2040	
Pop.	1,937,000	2,254,000	2,771,000	3,285,000	3,696,000	4,149,000	4,545,000	4,988,000	
		1970-1980	1980-1990	1990-2000	2000-2010	2010-2020	2020-2030	2030-2040	2000-2040
Change		318,000	516,000	514,000	411,000	453,000	396,000	444,000	1,704,000

Note: Table reports population for July 1, as opposed to decennial census counts of population, which are for April 1; the 2000 estimates in this table are therefore slightly higher than the 2000 Census estimates used in the INDEX model's base year database.
 Source: Puget Sound Regional Council, 2005 Puget Sound Economic Forecaster (PSEF) Model

Recent Historical Trends (1970-2000). The central Puget Sound region experienced substantial growth over the last three decades, increasing by over 1.3 million persons between 1970 and 2000. During this period, the region grew at an average annual rate of 1.8 percent, compared to 1.1 percent for the nation overall. The region grew at a particularly rapid pace during the 1980s, adding over half a million people at an average annual rate of 2.1 percent.

Historically, King County has, and continues to be, the central Puget Sound region's most populous county, with more than half (53 percent) of the region's total population in 2000. Pierce County is the next most populous county, with 21 percent of the region's population, closely followed by Snohomish County with 19 percent. Kitsap County is the region's smallest county, with 7 percent of the total population.

While King County received the largest share of the region's population growth over the last three decades, the region's other three counties grew at significantly faster rates, as growth pressures pushed suburban development farther out from the historic metropolitan cores. The populations of Snohomish and Kitsap counties more than doubled from 1970 to 2000, with both growing by 128 percent, at an average rate of 2.8 percent per year. Pierce County grew by 71 percent, at a rate of 1.8 percent per year. By comparison, King County grew by 50 percent, at a rate of 1.4 percent per year.

The last 30 years also witnessed some major demographic shifts that substantially affected the average number of persons living per household, both nationally and locally. Average household size declined significantly from the 1970s to the 1980s. The region's average household size dropped from 2.96 persons in 1970, to 2.58 in 1980, and 2.50 in 1990. As household size has declined, the number of single-person households has been increasing in the region. Within King County, for example, 2000 Census data indicates that single-person households increased by 21 percent between 1990 and 2000.

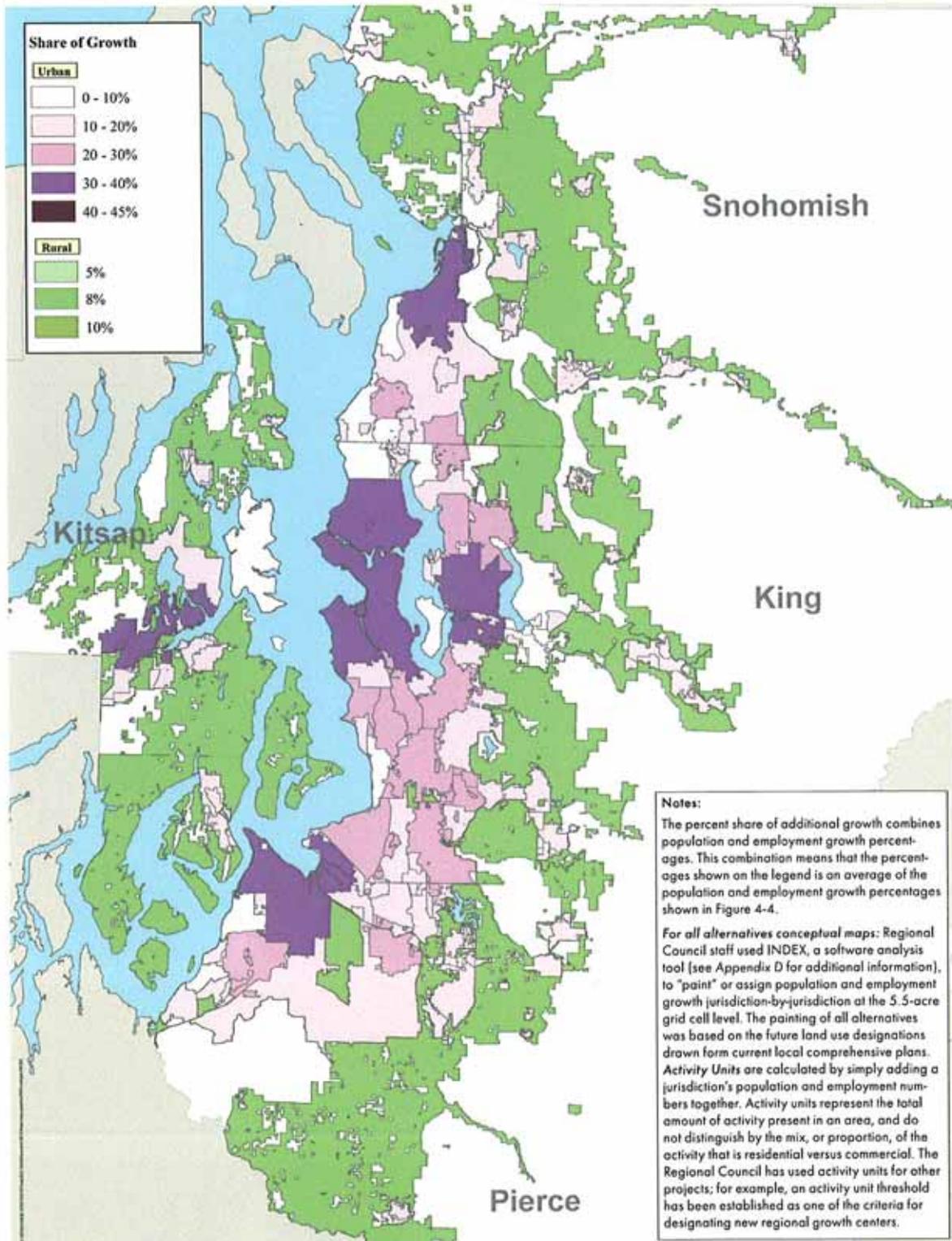
These trends stabilized during the 1990s, with regional household size dropping very slightly to 2.49 in 2000. This was due, in part, to the rise in minority and immigrant populations that tend to have higher-than-average family sizes. Average household size can vary considerably from place to place. Among the region's cities, average household size in 2000 ranged from a low of 2.08 in Seattle to a high of 3.13 in Covington.

Forecasts (2000-2040). The region is forecast to grow by an additional 1.7 million persons between 2000 and 2040, increasing 52 percent to reach a population of nearly 5 million by 2040. King County is expected to receive the largest share of the forecast growth, but, consistent with trends over the last 30 years, an increasing share of the growth could likely be absorbed by the region's other counties, with Snohomish County showing the fastest overall growth rate.

Average household size is expected to continue declining, albeit at a much slower pace, due to downward pressure from an aging population, combined with some upward pressure from growing minority populations and the continued arrival of new immigrant households. The regional average household size is forecast at 2.22 persons in 2040. Smaller household size means that more housing units might be needed to accommodate the forecast growth in population relative to historic growth.

FIGURE 4-3: GROWTH TARGETS EXTENDED ALTERNATIVE MAP

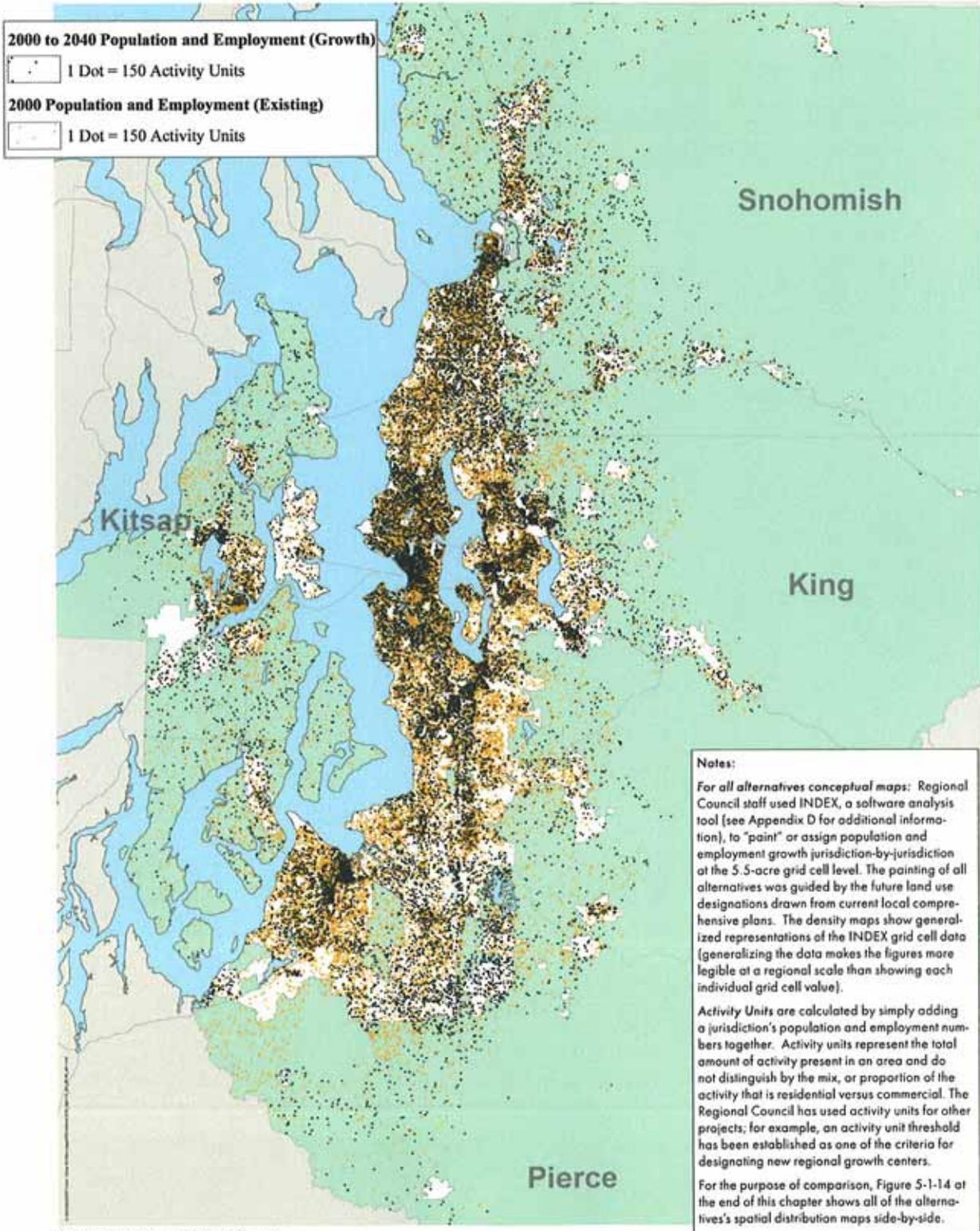
— SHARE OF ADDITIONAL POPULATION AND EMPLOYMENT GROWTH, BY REGIONAL GEOGRAPHY (2000-2040)



Note: For the purpose of comparison, Figure 4-14 at the end of this chapter shows all of the definition of the alternative's maps side-by-side.
Source: PSRC, 2005.



**FIGURE 5-1-6: GROWTH TARGETS EXTENDED ALTERNATIVE CONCEPTUAL MAP:
SPATIAL DISTRIBUTION OF 2000 AND 2040 ACTIVITY UNITS**



Source: Puget Sound Regional Council



**FIGURE 5-1-7: GROWTH TARGETS EXTENDED ALTERNATIVE:
2000-2040 POPULATION AND EMPLOYMENT GROWTH ALLOCATIONS**

	Metro Cities	Core Suburban Cities	Larger Suburban Cities	Smaller Suburban Cities	Unincorp. Urban Areas	Rural Areas	TOTAL
King							
Population	264,000	201,000	81,000	50,000	70,000	38,000	704,000
Employment	385,000	281,000	53,000	24,000	18,000	5,000	766,000
Kitsap							
Population	23,000	12,000	13,000	11,000	51,000	44,000	154,000
Employment	19,000	10,000	6,000	7,000	4,000	22,000	68,000
Pierce							
Population	113,000	51,000	10,000	69,000	108,000	44,000	396,000
Employment	63,000	34,000	4,000	51,000	43,000	6,000	201,000
Snohomish							
Population	52,000	23,000	47,000	50,000	184,000	103,000	459,000
Employment	79,000	22,000	17,000	27,000	32,000	8,000	185,000
REGION							
Population	452,000	286,000	151,000	179,000	413,000	229,000	1,712,000
Employment	545,000	347,000	80,000	109,000	98,000	41,000	1,219,000

Note: Numbers may vary due to rounding.

Counties

Under Growth Targets Extended, the majority (59 percent) of the population growth goes to Kitsap, Pierce, and Snohomish counties, with King County receiving the remainder. However, the reverse is true of employment, with nearly two-thirds of the anticipated job growth (63 percent) going to King County, and the remaining one-third to the region's other counties. Kitsap County receives its largest share of population growth (9 percent) under this alternative. Snohomish County receives a relatively large share of population growth as well.

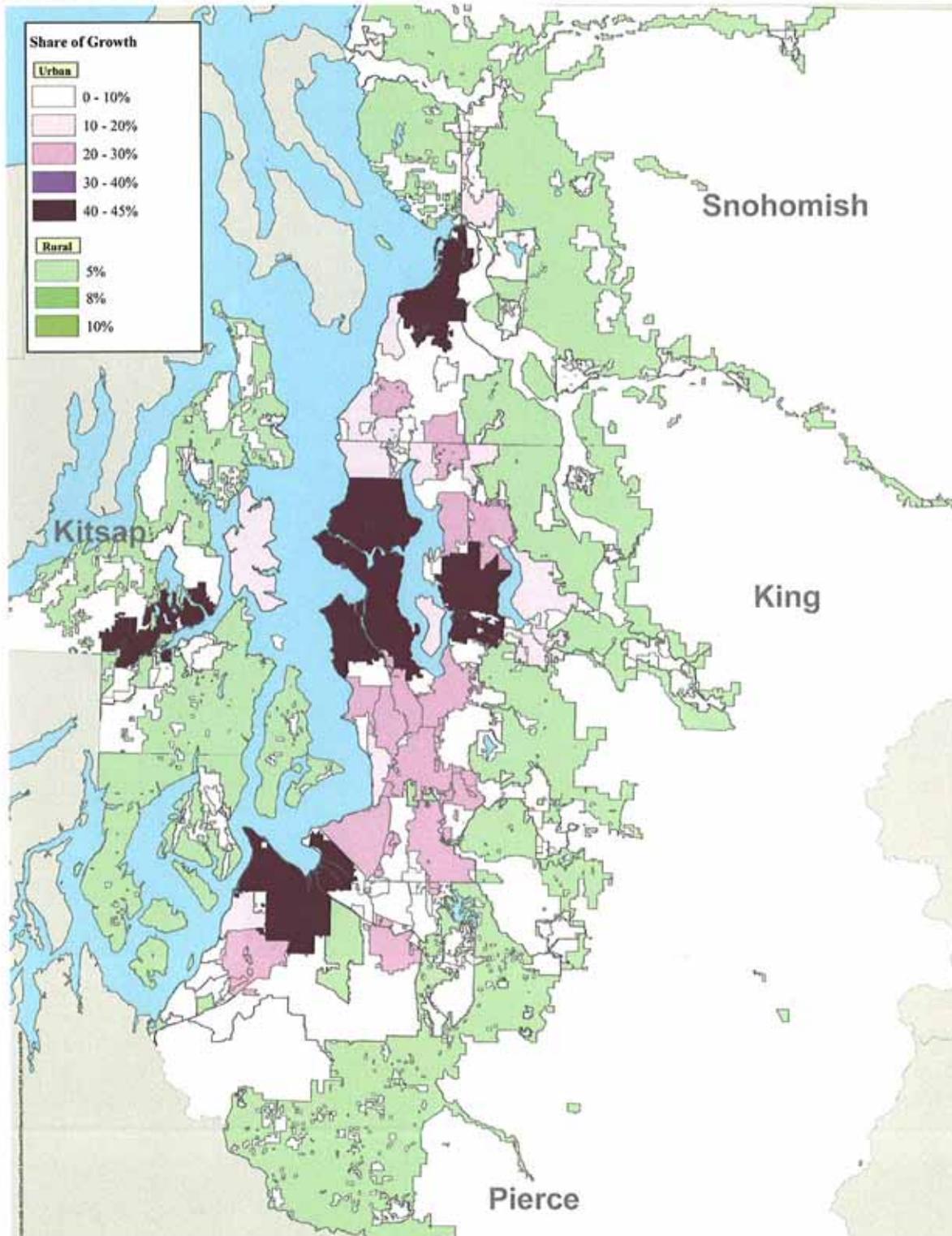
Regional Geographies

Under Growth Targets Extended, the population growth of 1.7 million additional persons from 2000 to 2040 is allocated across the six regional geographies in a relatively dispersed manner, with most growth being allocated to both the most urban places and the most non-urban places. Roughly a quarter of the population growth goes to the region's metropolitan cities, another quarter to the core and larger suburban cities, and the remaining half to smaller suburban cities, unincorporated urban areas, and rural areas. In contrast, the forecast employment growth of 1.2 million additional jobs occurs in a more highly concentrated pattern, with the bulk of the job growth (73 percent) going to the metropolitan and core suburban cities. The rural areas receive the most population growth (13 percent) in this alternative. The unincorporated urban areas also receive a significant share of the population growth.

- **Metropolitan Cities.** The metropolitan cities receive 26 percent of the forecast 2000-2040 population growth (452,000 persons) and 45 percent of the forecast employment growth (545,000 jobs).
- **Core Suburban Cities.** The core suburban cities receive 17 percent of the forecast population growth (286,000 persons) and 28 percent of the forecast employment growth (347,000 jobs).
- **Larger Suburban Cities.** The larger suburban cities receive 9 percent of the forecast population growth (151,000 persons) and 7 percent of the forecast employment growth (80,000 jobs).
- **Smaller Suburban Cities.** The smaller suburban cities receive 10 percent of the forecast population growth (179,000 persons) and 9 percent of the forecast employment growth (109,000 jobs).
- **Unincorporated Urban Growth Areas.** The unincorporated urban areas receive 24 percent of the forecast population growth (413,000 persons) and 8 percent of the forecast employment growth (98,000 jobs).
- **Rural Areas.** The rural areas also receive 13 percent of the forecast population growth (229,000 persons) and 3 percent of the forecast employment growth (41,000 jobs).

FIGURE 4-5: METROPOLITAN CITIES ALTERNATIVE MAP

— SHARE OF ADDITIONAL POPULATION AND EMPLOYMENT GROWTH, BY REGIONAL GEOGRAPHY (2000-2040)



Notes: See the footnote with Figure 4-3. This combination means that the percentages shown on the legend is an average of the population and employment growth percentages shown in Figure 4-6.

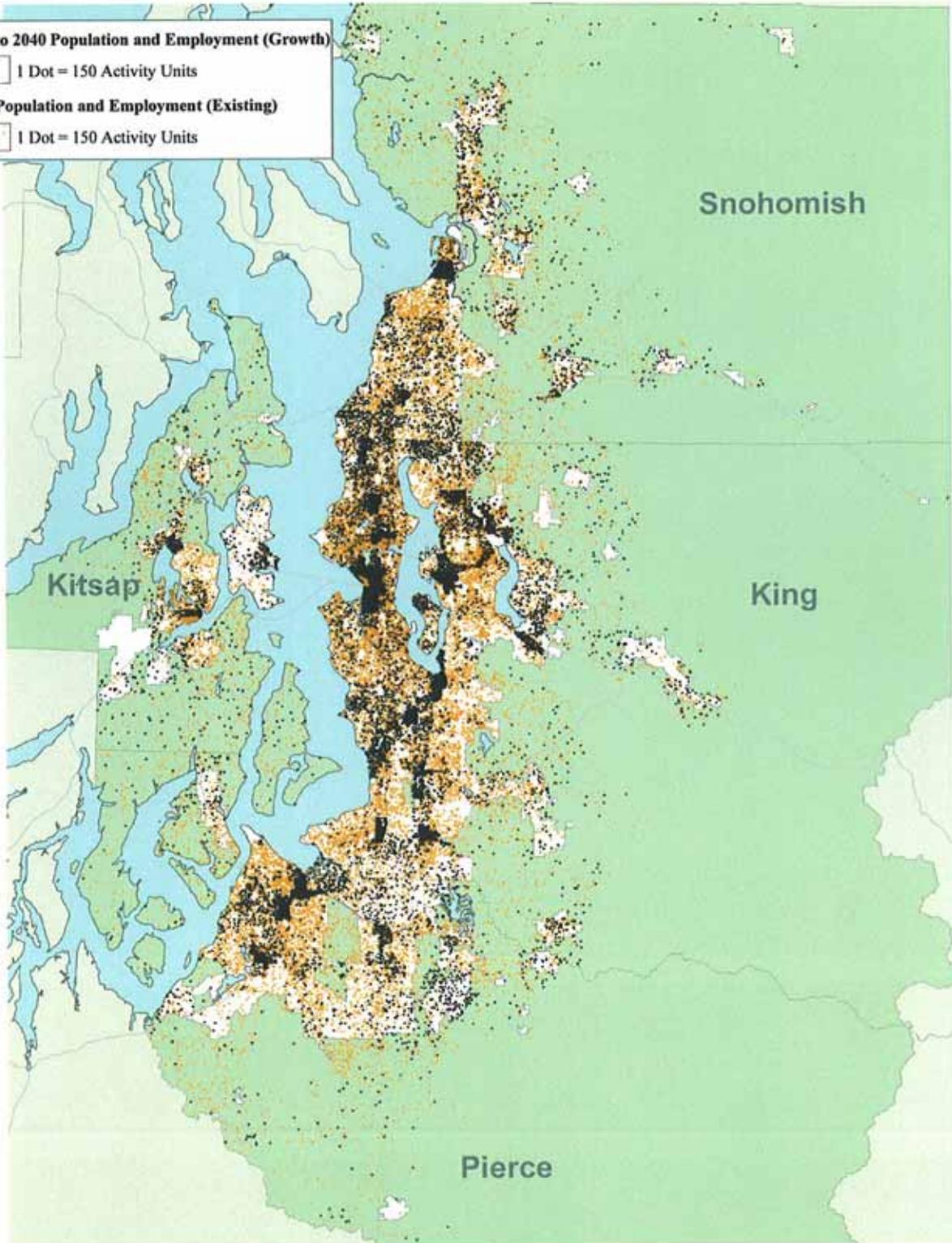
Source: PSRC, 2005.



**FIGURE 5-1-8: METROPOLITAN CITIES ALTERNATIVE CONCEPTUAL MAP:
SPATIAL DISTRIBUTION OF 2000 AND 2040 ACTIVITY UNITS**

2000 to 2040 Population and Employment (Growth)
 1 Dot = 150 Activity Units

2000 Population and Employment (Existing)
 1 Dot = 150 Activity Units



Note: See note accompanying Figure 5-1-6 for an explanation of activity units.
 Source: Puget Sound Regional Council, 2006

FIGURE 5-1-9: METROPOLITAN CITIES ALTERNATIVE: 2000-2040 POPULATION AND EMPLOYMENT GROWTH ALLOCATIONS

	Metro Cities	Core Suburban Cities	Larger Suburban Cities	Smaller Suburban Cities	Unincorp. Urban Areas	Rural Areas	TOTAL
King							
Population	443,000	311,000	138,000	60,000	24,000	21,000	996,000
Employment	406,000	300,000	77,000	14,000	14,000	14,000	824,000
Kitsap							
Population	29,000	13,000	18,000	9,000	8,000	17,000	94,000
Employment	18,000	7,000	7,000	5,000	5,000	20,000	62,000
Pierce							
Population	145,000	70,000	21,000	53,000	23,000	22,000	335,000
Employment	66,000	34,000	6,000	25,000	23,000	15,000	168,000
Snohomish							
Population	68,000	34,000	80,000	49,000	30,000	26,000	287,000
Employment	59,000	25,000	32,000	18,000	19,000	12,000	165,000
REGION							
Population	685,000	428,000	257,000	171,000	86,000	86,000	1,712,000
Employment	549,000	366,000	122,000	61,000	61,000	61,000	1,219,000

Note: Numbers may vary due to rounding.

Counties

The distribution of employment growth across the four counties is similar to Growth Targets Extended, with slightly more job growth (68 percent) going to King County. Under the Metropolitan Cities Alternative, King County also receives the largest share of regional population growth (58 percent). Both Kitsap and Snohomish counties receive their smallest shares of population and employment growth in this alternative.

Regional Geographies

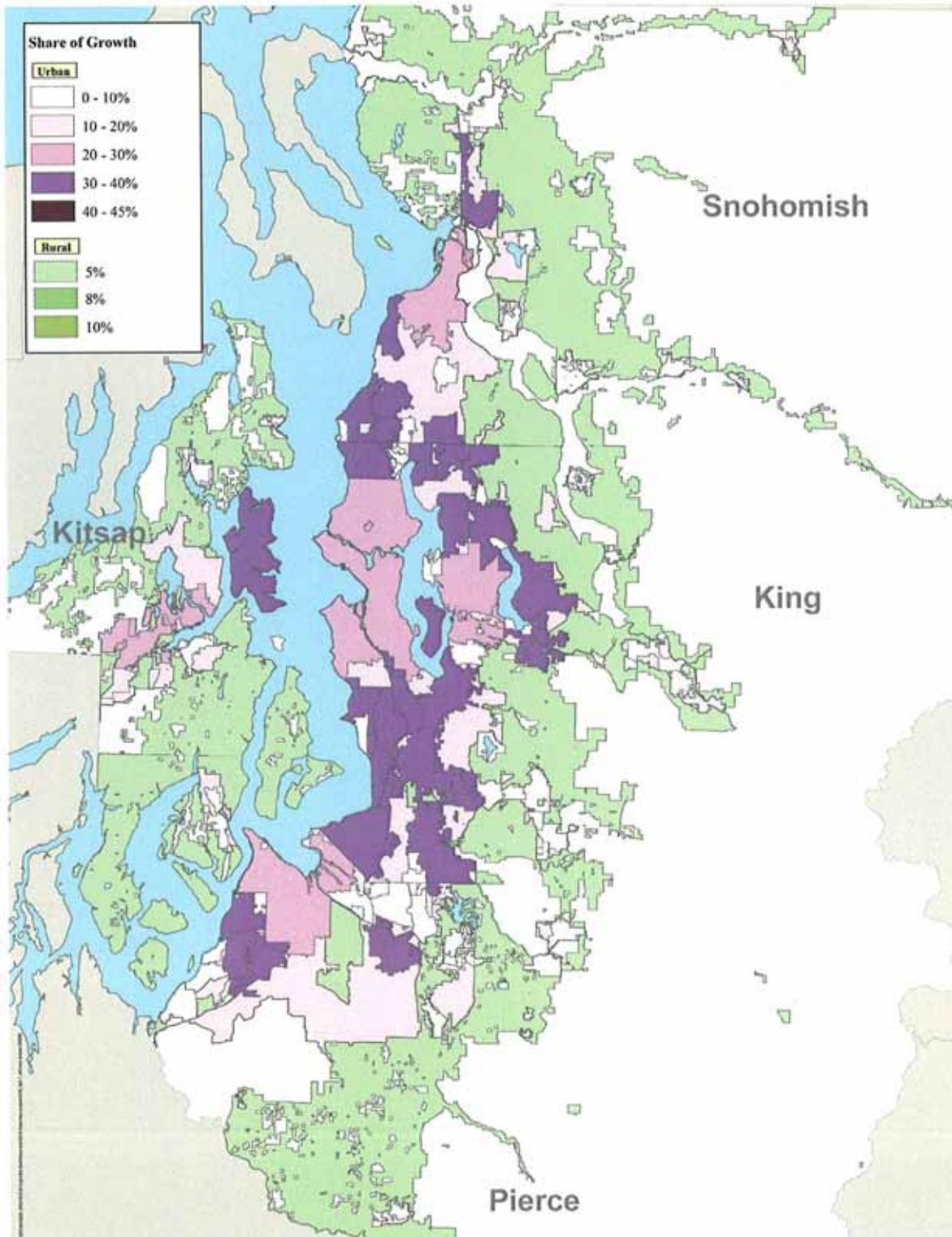
In the Metropolitan Cities Alternative, the majority of the forecast 2000-2040 growth in population and employment (65 percent and 75 percent, respectively) is directed to the region's metropolitan and core suburban cities. The metropolitan cities receive their largest shares of population (40 percent) and employment (45 percent) growth under the Metropolitan Cities Alternative. The core suburban cities receive the greatest share of employment growth in equal amounts (30 percent) under both the Metropolitan Cities and the Larger Cities alternatives. The smaller suburban cities, unincorporated areas and rural areas receive much less, often the least amounts of, population and employment growth under this alternative.

- **Metropolitan Cities.** The metropolitan cities receive 40 percent of the forecast 2000-2040 population growth (685,000 persons) and 45 percent of the forecast employment growth (549,000 jobs), which is 233,000 more persons and 4,000 more jobs than under Growth Targets Extended.
- **Core Suburban Cities.** The core suburban cities receive 25 percent of the forecast population growth (428,000 persons) and 30 percent of the forecast employment growth (366,000 jobs), which is 142,000 more persons and 19,000 more jobs than under Growth Targets Extended.
- **Larger Suburban Cities.** The larger suburban cities receive 15 percent of the forecast population growth (257,000 persons) and 10 percent of the forecast employment growth (122,000 jobs), which is 105,000 more persons and 42,000 more jobs than under Growth Targets Extended.
- **Smaller Suburban Cities.** The smaller suburban cities receive 10 percent of the forecast population growth (171,000 persons) and 5 percent of the forecast employment growth (61,000 jobs), which is 8,000 fewer persons and 48,000 fewer jobs than under Growth Targets Extended.
- **Unincorporated Urban Growth Areas.** The unincorporated urban areas receive 5 percent of the forecast growth in population (86,000 persons) and employment (61,000 jobs), which is 328,000 fewer persons and 37,000 fewer jobs than under Growth Targets Extended.
- **Rural Areas.** The rural areas also receive 5 percent of the forecast growth in population (86,000 persons) and employment (61,000 jobs), which is 144,000 fewer persons and 20,000 more jobs than under Growth Targets Extended.



FIGURE 4-7: LARGER CITIES ALTERNATIVE MAP

— SHARE OF ADDITIONAL POPULATION AND EMPLOYMENT GROWTH, BY REGIONAL GEOGRAPHY (2000-2040)

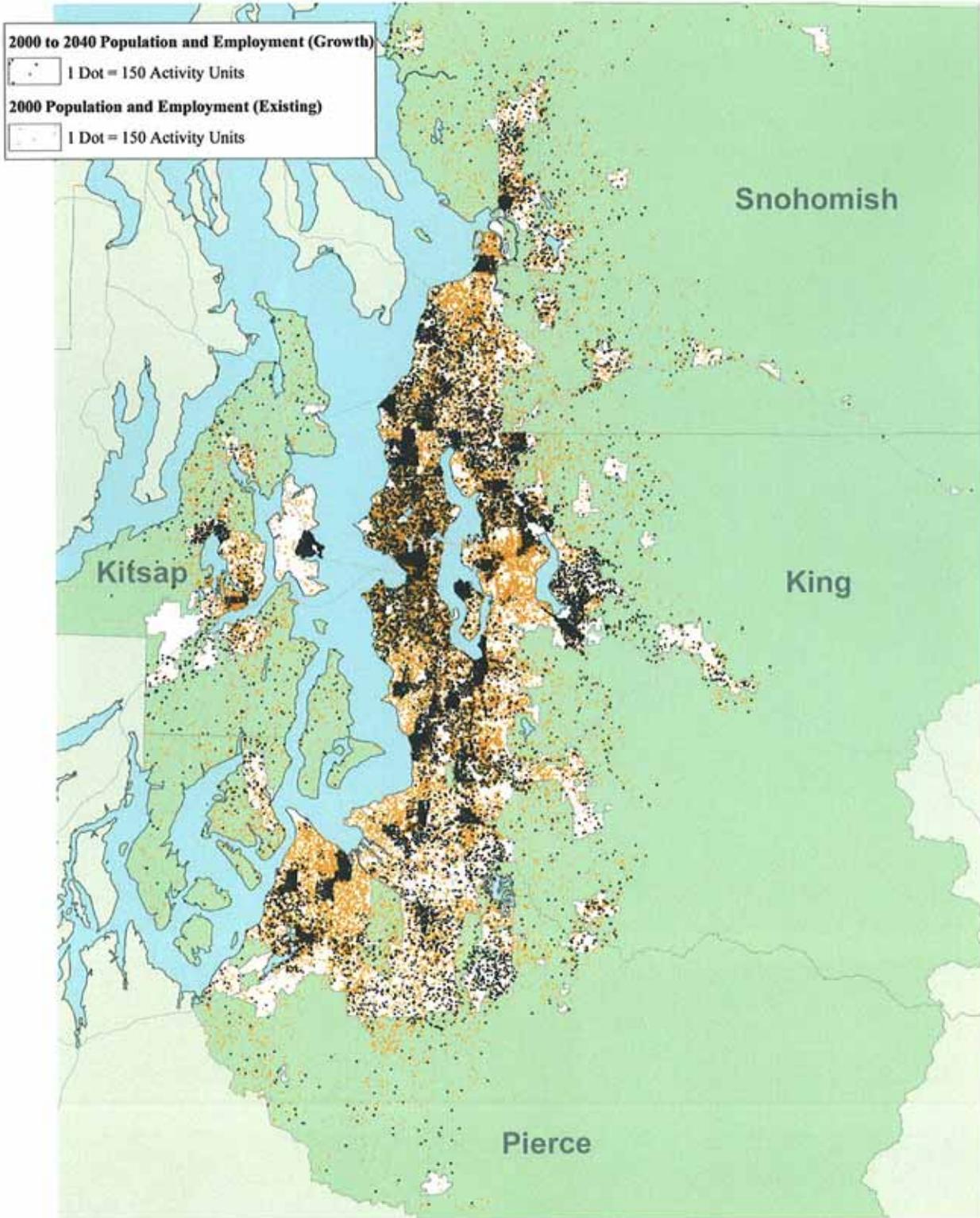


Notes: See the footnote with Figure 4-3. This combination means that the percentages shown on the legend is an average of the population and employment growth percentages shown in Figure 4-8.

Source: PSRC, 2005.



**FIGURE 5-1-10: LARGER CITIES ALTERNATIVE CONCEPTUAL MAP:
SPATIAL DISTRIBUTION OF 2000 AND 2040 ACTIVITY UNITS**



Note: See note accompanying Figure 5-1-6 for an explanation of activity units.
Source: Puget Sound Regional Council, 2006



FIGURE 5-1-11: LARGER CITIES ALTERNATIVE: 2000-2040 POPULATION AND EMPLOYMENT GROWTH ALLOCATIONS

	Metro Cities	Core Suburban Cities	Larger Suburban Cities	Smaller Suburban Cities	Unincorp. Urban Areas	Rural Areas	TOTAL
King							
Population	222,000	373,000	275,000	30,000	48,000	21,000	968,000
Employment	180,000	300,000	230,000	14,000	28,000	14,000	767,000
Kitsap							
Population	14,000	16,000	36,000	5,000	16,000	17,000	104,000
Employment	8,000	7,000	22,000	5,000	10,000	20,000	72,000
Pierce							
Population	73,000	84,000	43,000	26,000	47,000	22,000	295,000
Employment	29,000	34,000	18,000	25,000	45,000	15,000	166,000
Snohomish							
Population	34,000	41,000	160,000	24,000	61,000	26,000	346,000
Employment	26,000	25,000	96,000	18,000	38,000	12,000	215,000
REGION							
Population	342,000	514,000	514,000	86,000	171,000	86,000	1,712,000
Employment	244,000	366,000	366,000	61,000	122,000	61,000	1,219,000

Note: Numbers may vary due to rounding.

Counties

Like the Metropolitan Cities Alternative, the growth allocations under the Larger Cities Alternative focus the majority, albeit slightly less, of the forecast population (57 percent) and employment (63 percent) into King County. Pierce County receives its smallest share of population (17 percent) and employment (14 percent) growth in this alternative. Kitsap and Snohomish counties also receive relatively small shares of population and employment growth under the Larger Cities Alternative.

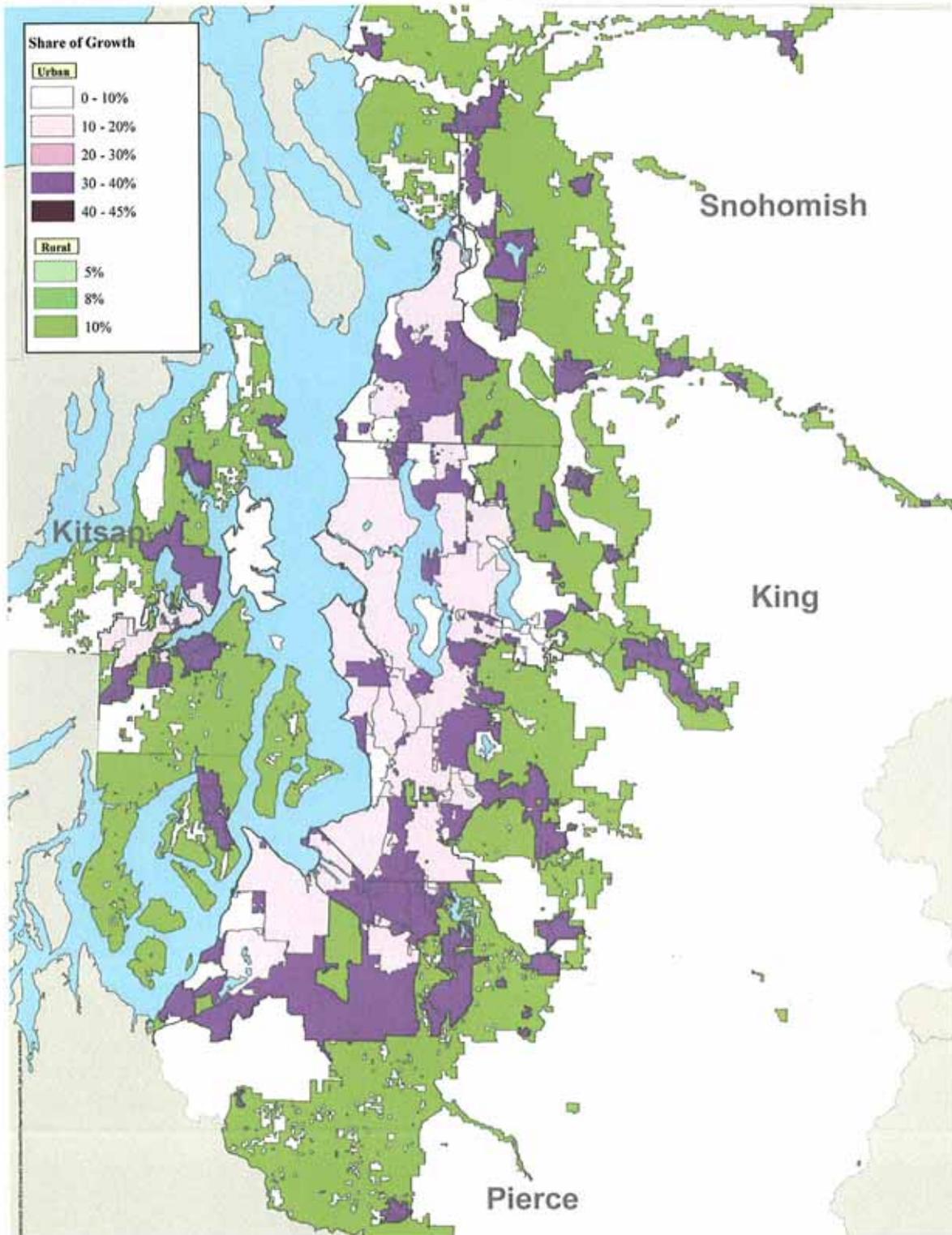
Regional Geographies

This alternative minimizes the amount of population and employment growth allocated to smaller suburban cities, unincorporated urban areas, and rural areas in a manner similar to the Metropolitan Cities Alternative. However, whereas the Metropolitan Cities Alternative focuses the bulk of the remaining growth into the metropolitan and core suburban cities, the Larger Cities Alternative shifts the balance of the region's forecast growth toward the larger suburban cities, with less going to the metropolitan cities. The core and larger suburban cities receive their largest shares of population and employment growth under this alternative.

- **Metropolitan Cities.** The metropolitan cities receive 20 percent of the forecast 2000-2040 growth in population (342,000 persons) and employment (244,000 jobs), which is 110,000 fewer persons and 301,000 fewer jobs than under Growth Targets Extended.
- **Core Suburban Cities.** The core suburban cities receive 30 percent of the forecast growth in population (514,000 persons) and employment (366,000 jobs), which is 227,000 more persons and 19,000 more jobs than under Growth Targets Extended.
- **Larger Suburban Cities.** The larger suburban cities also receive 30 percent of the forecast growth in population (514,000 persons) and employment (366,000 jobs), which is 362,000 more persons and 286,000 more jobs than under Growth Targets Extended.
- **Smaller Suburban Cities.** The smaller suburban cities receive 5 percent of the forecast growth in population (86,000 persons) and employment (61,000 jobs), which is 94,000 fewer persons and 48,000 fewer jobs than under Growth Targets Extended.
- **Unincorporated Urban Growth Areas.** The unincorporated urban areas receive 10 percent of the forecast growth in population (171,000 persons) and employment (122,000 jobs), which is 242,000 fewer persons and 24,000 more jobs than under Growth Targets Extended.
- **Rural Areas.** The rural areas receive 5 percent of the forecast growth in population (86,000 persons) and employment (61,000 jobs), which is 144,000 fewer persons and 20,000 more jobs than under Growth Targets Extended.

FIGURE 4-9: SMALLER CITIES ALTERNATIVE MAP

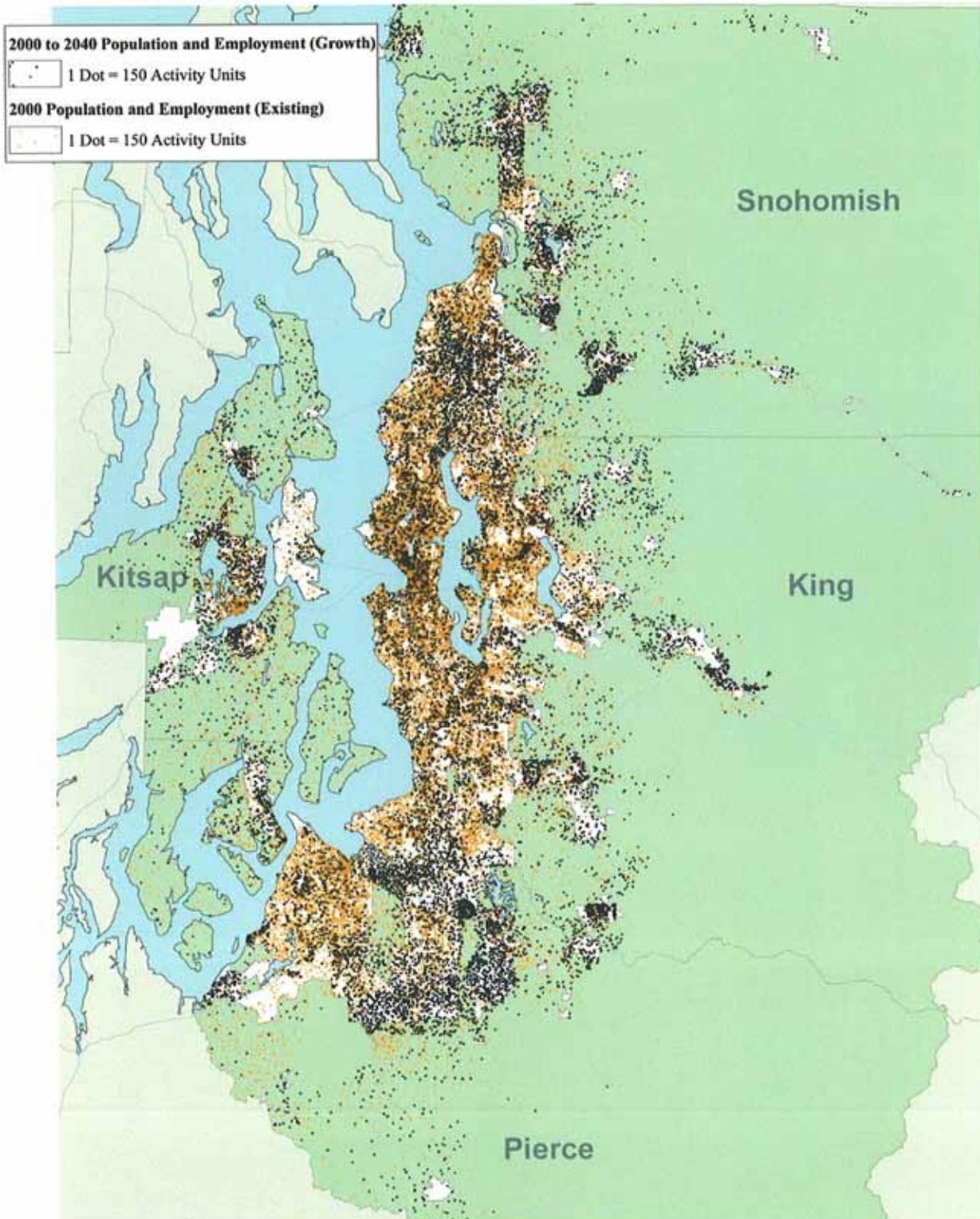
— SHARE OF ADDITIONAL POPULATION AND EMPLOYMENT GROWTH, BY REGIONAL GEOGRAPHY (2000-2040)



Notes: See the footnote with Figure 4-3. This combination means that the percentages shown on the legend is an average of the population and employment growth percentages shown in Figure 4-10.
Source: PSRC, 2005.



**FIGURE 5-1-12: SMALLER CITIES ALTERNATIVE CONCEPTUAL MAP:
SPATIAL DISTRIBUTION OF 2000 AND 2040 ACTIVITY UNITS**



Note: See note accompanying Figure 5-1-6 for an explanation of activity units.
Source: Puget Sound Regional Council, 2006



FIGURE 5-1-13: SMALLER CITIES ALTERNATIVE: 2000-2040 POPULATION AND EMPLOYMENT GROWTH ALLOCATIONS

	Metro Cities	Core Suburban Cities	Larger Suburban Cities	Smaller Suburban Cities	Unincorp. Urban Areas	Rural Areas	TOTAL
King							
Population	111,000	124,000	46,000	181,000	166,000	41,000	669,000
Employment	90,000	100,000	38,000	84,000	99,000	27,000	439,000
Kitsap							
Population	7,000	5,000	6,000	28,000	57,000	34,000	138,000
Employment	4,000	2,000	4,000	28,000	36,000	41,000	115,000
Pierce							
Population	36,000	28,000	7,000	158,000	164,000	45,000	438,000
Employment	15,000	11,000	3,000	148,000	158,000	30,000	365,000
Snohomish							
Population	17,000	14,000	27,000	146,000	212,000	52,000	468,000
Employment	13,000	8,000	16,000	106,000	133,000	24,000	301,000
REGION							
Population	171,000	171,000	86,000	514,000	599,000	171,000	1,712,000
Employment	122,000	122,000	61,000	366,000	427,000	122,000	1,219,000

Note: Numbers may vary due to rounding.

Counties

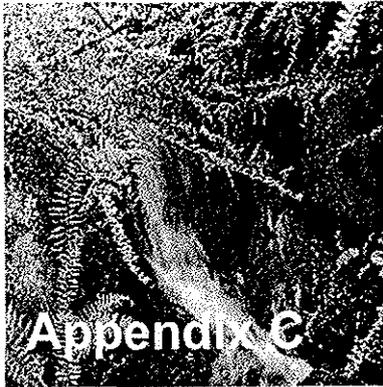
The distribution of population growth across the four counties is similar to Growth Targets Extended, with slightly less population going to King and Kitsap counties, and slightly more to Pierce and Snohomish counties. Pierce and Snohomish counties receive their largest shares of population growth (26 and 27 percent, respectively) under the Smaller Cities Alternative, and King County its smallest share (39 percent).

Regional Geographies

In this alternative, the majority of the forecast 2000-2040 growth in population and employment (75 percent) is directed to the region's outlying areas comprised of smaller suburban cities, unincorporated urban areas, and rural areas. The smaller suburban cities and unincorporated urban areas receive, by far, their largest shares (30 and 35 percent, respectively) of population and employment growth under the Smaller Cities Alternative. The rural areas also receive their largest share of total growth, with the most employment growth (10 percent) and a relatively large share of population growth. Metropolitan, core suburban, and larger suburban cities receive the smallest amounts of population and employment growth under the Smaller Cities Alternative.

- **Metropolitan Cities.** The metropolitan cities receive 10 percent of the forecast 2000-2040 growth in population (171,000 persons) and employment (122,000 jobs), which is 281,000 fewer persons and 423,000 fewer jobs than under Growth Targets Extended.
- **Core Suburban Cities.** The core suburban cities also receive 10 percent of the forecast growth in population (171,000 persons) and employment (122,000 jobs), which is 115,000 fewer persons and 225,000 fewer jobs than under Growth Targets Extended.
- **Larger Suburban Cities.** The larger suburban cities receive 5 percent of the forecast growth in population (86,000 persons) and employment (61,000 jobs), which is 66,000 fewer persons and 19,000 fewer jobs than under Growth Targets Extended.
- **Smaller Suburban Cities.** The smaller suburban cities receive 30 percent of the forecast growth in population (514,000 persons) and employment (366,000 jobs), which is 334,000 more persons and 257,000 more jobs than under Growth Targets Extended.
- **Unincorporated Urban Growth Areas.** The unincorporated urban areas receive 35 percent of the forecast growth in population (599,000 persons) and employment (427,000 jobs), which is 186,000 more persons and 329,000 more jobs than under Growth Targets Extended.
- **Rural Areas.** The rural areas receive 10 percent of the forecast growth in population (171,000 persons) and employment (122,000 jobs), which is 58,000 fewer persons and 81,000 more jobs than under Growth Targets Extended.





Evaluation Criteria

This appendix includes the key measures that will be used to assess the alternatives studied in the Draft Environmental Impact Statement. Presented as a matrix, the criteria are intended to be used for public review and comment. This matrix will be used by the Growth Management Policy board to help with the selection of the preferred growth alternative.

Overview

In creating the criteria, the Growth Management Policy Board identified goals that should be advanced by the preferred growth alternative. These four overarching goals are to:

- Promote an overall high quality of life.
- Create an efficient land use pattern for provision of infrastructure, facilities, and services.
- Protect the natural environment.
- Enhance human potential and social justice.

In order to compare the four goals listed above and to each other, a set of criteria has been developed and is presented below. The criteria include a subject and associated unit of measurement, and are organized under the following nine categories:

- Environmental quality
- Health
- Economic prosperity (the objectives of the Regional Economic Strategy)
- Land use
- Transportation (the objectives of Destination 2030)
- Social justice & human potential
- Maintaining rural character
- Protecting resource lands
- Efficiencies in the provision and use of infrastructure, public facilities, & services

The measures will be evaluated on a scale of 1 to 4, with 4 being the highest (or best) score and 1 being the lowest (or worst) score. Space has been provided for the reader score each alternative themselves. The result of this exercise could then be used by readers in developing their comments.



Criteria

Environmental Measures

Subject	Unit of Measure	Alternatives			
		Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
• Nonpoint Pollution (INDEX)	Average annual kilograms per acre				
• Imperviousness (INDEX)	Impervious land				
• Wastewater Generation (INDEX)	Gallons per year				
• Solid waste generation (INDEX)	Pounds per year				
• Air quality	Particulate matter, carbon monoxide, nitrous oxide				
• Climate change	Tons of Carbon Dioxide per year				
• Noise	Overall judgment from noise analysis in chapter 5.14 of the DEIS				
• Earth	Overall judgment from earth analysis in chapter 5.13 of the DEIS				
• Water/Stormwater	Overall judgment from water quality and hydrology analysis in chapter 5.6 of the DEIS				
• Parks and Recreation	Overall judgment from parks and recreation analysis in chapter 5.8 of the DEIS				
• Visual/Aesthetic quality	Overall judgment from visual/aesthetic quality analysis in chapter 5.12 of the DEIS				
• Historic and cultural resources	Overall judgment from historic and cultural resources analysis in chapter 5.11 of the DEIS				
Environmental Average Score					



Health Measures

Subject	Unit of Measure	Alternatives			
		Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
<ul style="list-style-type: none"> Potential for reducing automobile injuries 	Automobile vehicle miles traveled				
<ul style="list-style-type: none"> Air and water pollutants 	Overall judgment from air quality and ecosystems analysis in chapters 5.4 and 5.5 of the DEIS				
<ul style="list-style-type: none"> Potential for physical activity 	Acres with more than 12 activity units per acre				
<ul style="list-style-type: none"> Environmental health 	Overall judgment from ecosystems and environmental health analysis in chapters 5.5 and 5.9 of the DEIS				
Health Average Score					



Economic Measures

Subject		Unit of Measure	Alternatives			
			Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
<i>Access to jobs:</i>						
• Transit adjacency to employment	Number of jobs within ½ mile of a transit line					
• Travel time between selected links	Minutes					
• Access to jobs for lower income workers	Overall judgment from environmental justice analysis in chapter 6 of the DEIS					
<i>Geographic relationship between households and jobs:</i>						
• Land area with 20 jobs per acre and above	Acres					
• Proximity of people to land area with 20 jobs per acre and above	Residents					
<i>Jobs/ housing balance measures:</i>						
• Regional share of jobs in Everett, Tacoma, and Bremerton areas	Jobs					
• Regional share of housing in Seattle and east King County subarea	Housing					
Economic Average Score						



Land Use Measures

Subject	Unit of Measure	Alternatives			
		Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
<i>Urban areas:</i>					
• Land at 7 units per acre or higher	Acres				
• Amenities adjacency (INDEX)	Percent of population within ¼ mile of defined amenities				
• Transit adjacency to housing	Percent of population within ¼ mile of transit routes				
• Amount of population in cities with regional growth centers	Population				
<i>Rural and Resource Lands:</i>					
• Population levels in rural area	Population				
• Environmental impacts in rural area	Imperviousness, wastewater generation, solid waste				
• Transportation impacts in rural area	Travel time between selected links				
• Overall land use impacts	Overall judgment from land use analysis in chapter 5.2 of the DEIS				
Land Use Average Score					

Transportation Measures

Subject	Unit of Measure	Alternatives			
		Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
• Travel time between selected links	Aggregate hours				
• Daily vehicle miles traveled	Aggregate miles				
• Daily vehicle hours traveled	Aggregate hours				
• Average trip length	Minutes				
• Daily hours of delay	Aggregate hours				
• Work trip mode split	Percent of work trips in single-occupant vehicles				
<i>Percent of households with access to jobs and selected activities</i>					
• 10-minute walk (½ mile)	Households				
• 20 minute bike ride (4 miles)	Households				
• 30 minute transit ride	Households				
Transportation Average Score					



Infrastructure, Public Facilities, and Services Measures

Subject	Unit of Measure	Alternatives			
		Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
• Public services and utilities	Overall judgment from public services and utilities analysis in chapter 5.7 of the DEIS				
• Water supply	Overall judgment from public services and utilities analysis in chapter 5.7 of the DEIS				
• Sanitary sewer	Overall judgment from public services and utilities analysis in chapter 5.7 of the DEIS				
• Electrical power	Overall judgment from public services and utilities analysis in chapter 5.7 of the DEIS				
• Energy Use	Overall judgment from energy analysis in chapter 5.10 of the DEIS				
• Relative cost to provide infrastructure, public facilities, and services	Overall judgment from analysis in appendix E.14 (cost of sprawl appendix) of the DEIS				
Infrastructure, Public Facilities, and Services Average Score					

Environmental Justice Measures

Subject	Unit of Measure	Alternatives			
		Growth Targets Extended	Metropolitan Cities	Larger Cities	Smaller Cities
• Access to transportation services and facilities for EJ populations	Travel time on selected links				
• Overall relative distribution of population and employment compared to locations of EJ population	Overall judgment from environmental justice analysis in chapter 6 of the DEIS				
• Access to jobs for lower income workers	Jobs within 1 mile of high-poverty census block groups				
• Overall	Overall judgment from environmental justice analysis in chapter 6 of the DEIS				
Environmental Justice Average Score					

PUGET SOUND REGIONAL COUNCIL 2040 GROWTH ALTERNATIVES

	Base Year (2000)	Targets Extended	Metro Cities	Larger Cities	Smaller Cities
POPULATION					
Kirkland (total population)	45,054	65,626	77,156	83,576	57,895
King Co.(total population)	1,736,921	2,440,420	2,732,896	2,704,735	2,405,978
Larger Cities (added population)		151,000	257,000	514,000	86,000
EMPLOYMENT					
Kirkland (total employment)	38,309	67,727	66,845	66,845	47,821
King Co. (total employment)	1,279,463	2,045,207	2,103,775	2,046,238	1,718,277
Larger Cities (added employment)		80,000	122,000	366,000	61,000

June 14, 2006 Public issues Committee Meeting

PSRC Proposed Growth Scenarios

Comments to be returned to Karen Goroski by June 29th

1. As the follow up on the Vision 2020 update discussion at the June 14th PIC meeting, members were asked to comment on the following: (Comments are due at the SCA offices by CoB on **June 29th**. Email Karen at karen@suburbancities.org)

Sue Singer, Vice-President of PSRC reminded everyone that the population forecast is not based on migration but on historical growth pattern. Overall goal of update is to coordinate transportation, economic development and housing. The original plan only addressed transportation.

- While clear that the region is planning to accommodate 1.1 million jobs and 1.6 million people by 2040, the DEIS is less clear on the intended objectives to be accomplished through the distribution of growth within the region. The GMPB has identified general goals to be advanced by the Preferred Growth Alternative, and has reviewed a set of proposed criteria for evaluating growth alternatives against those overarching goals (see DEIS Appendix C). There will be an opportunity to comment on those criteria during the DEIS comment period. **What key objectives would SCA prioritize as criteria for selecting a Preferred Growth Alternative?** For example, reduce vehicle miles traveled, least cost provision of future infrastructure, preserve critical habitat, etc.
- The Preferred Growth Alternative will have impacts on local policy. Particularly, focused growth may necessitate significant revisions to comprehensive plans over time to accommodate higher levels of population and job growth. **Cities may want a clearer vision of what the policy impacts would be.**
- **What is the potential for suburban Urban Centers to accommodate an increasing share of countywide and regional growth?**
- Alternatives that focus growth in Metropolitan, Core, and Larger Cities may limit the amount of future growth in smaller cities. **Is this vision consistent with the vision and adopted policies of the Snoqualmie Valley Cities and the City of Enumclaw? If it is decided that growth should be concentrated in larger cities, does that mean small cities are going to be asked not to develop mixed-use town centers that provide housing and jobs?**
- **If growth is directed to large cities, would smaller cities get any money for infrastructure or economic development?**
- **Generally, what is the desired relationship between the Preferred Growth Alternative and transportation funding in the region? Further, what is the relationship between the Preferred Growth Alternative and the region's ability to fund transportation improvements to support it?**
- **What is the relationship between Vision 2020+20 update and economic development? Specifically, the Prosperity Partnership's Regional Economic Strategy? Also, local economic**

development goals and objectives? What tools will local governments have to redirect/increase/attract jobs to areas where job growth is to be focused in the Preferred Growth Alternative?

- **What happens if PSRC does nothing and instead puts its resources into sustaining the current populations?**
- GMA requirements talked about including impact on city authority. **What kind of local discretion is needed to implement goals and MPPs?**
- **Credit should be given to jurisdictions that have met or exceeded their current GMA planning targets for households and jobs. Do these areas have to accept more density?**
- **What kind of assistance will be provided for jobs in growth areas?**
- **What is the driver and moving parts?**
- **How do you bundle jobs/housing/transportation to prepare for 20 years of growth?**
- **How prescriptive will the proposed growth scenario be in transportation planning and funding?**
- **How does the planning for growth take into consideration the limitations of small cities and their need for transportation funding?**
- **Should there be an alternative with lower regional growth #s than modeled in the current DEIS?**
- **Other issues to be considered in determining the growth scenario for the Puget Sound Region?**
- **PSRC's goal is to better integrate land use, transportation, and economic development planning in the region. SCA needs to insist that there are meaningful provisions in Vision 2020+20 toward this end, including future funding.**

2. Additionally, after reviewing the attached proposed evaluation criteria for selecting the proposed growth alternative send any comments on recommended revisions to Karen by June 29th.

3. Finally, please forward any comments members have sent to PSRC on the DEIS so that SCA can identify trends on issues raised by member cities.

Next Steps

As noted, the current work schedule for the GMPB and Executive Board includes selection of a Preferred Growth Alternative in fall 2006 and approval for further environmental review of a complete Vision packet with MPPs in winter/spring 2007. Also, the DEIS comment period ends July 31, 2006.

Action by PIC on the Vision 2020+20 update may take one or more forms, including:

- *Formal DEIS comment representing the perspective of SCA as a whole*
- *Policy position expressing either preference for a particular Preferred Growth Alternative, or articulating objectives to be met through a selected pattern of growth in the region*

Given the multifaceted nature of Vision 2020, integrating several major policy areas within a regional strategy, PIC may choose to approach development of a policy position or positions through subcommittees to focus on several aspects of the update.



Following is a summary of comments contributed by SCA membership for the July 12 PIC meeting in response to the Vision 2020+20 Update DEIS. City of Des Moines comments represent position of entire city council. The remainder of the comments received to date reflect input from individual council members, mayors, and city staff, as well as adopted SCA policy positions.

Comments related to Selection of Preferred Growth Alternative (PGA)

Preference for alternatives with lower overall environmental impacts. Per DEIS, alternatives 2 (Metropolitan Cities) and 3 (Larger Cities) have the lowest impacts. A PGA which is a hybrid of alternatives 2 and 3 is preferred.

Growth should be concentrated in the major metropolitan cities.

PGA should improve the balance between housing and job locations.

Future population and job growth should first be directed to areas with current or planned infrastructure to serve that growth.

PGA should be consistent with current comprehensive plans of cities, including the local vision for growth during the current 20-year planning period.

PGA should be consistent with the long-term financial stability of cities, in particular, the need for cities to attract business to maintain and grow their tax base.

PGA should be developed in coordination with region's economic development strategy.

Comments related to Multicounty Planning Policies (MPPs)

MPPs should promote incentives to help local governments make decisions that reflect the regional vision while being consistent with local needs.

Regional transportation funding must support the adopted regional growth pattern, in particular to support the ability of cities where population and jobs are focused to accommodate that growth.

Smaller suburban cities will also see growth, and therefore should get a share of regional transportation dollars.

MPPs should promote transit-supportive land uses as well as regional and local infrastructure improvements that reduce dependency on the single-occupancy vehicle, reduce air and water pollution, use energy efficiently, and reduce congestion.

MPPs should respect local discretion in establishing levels-of-service and transportation concurrency standards.

SCA opposes any MPP that would impose a uniform minimum urban residential density. Vision 2020+20 should recognize local discretion in zoning for future jobs and housing.

MPPs must respect local discretion in planning for land uses and infrastructure investments that are associated with increased physical activity and other public health benefits. SCA opposes any MPP that would mandate local planning for healthy communities.

Region should work to preserve the remaining open space lands within the UGA. MPPs should encourage the use of urban separators and other techniques.

MPPs should promote creating quality communities, environmentally sustainable development, design standards, and innovative programs.

MPPs should promote new development with lower environmental impact.

**Work Plan and Timetable for Commenting on Vision 2020 Update:
Preferred Growth Scenario and Multicounty Planning Policies (MPPs)**

Position Needed	SCA Timeframe		PSRC Action Possible
	First heard	Action needed	
Position on selection of a Preferred Growth Scenario	8/9/06	9/13/06	1. GMPB: October, 2006 (preliminary) 2. GMPB: January-February, 2007 (final) 3. Executive Board Action in April/May 2007 to approve full packet for supplemental EIS
Position on revisions to MPPs	9/13/06	11/8/06	1. GMPB: January-February, 2007 2. Presented to PSRC General Assembly in March, 2007 3. Executive Board Action in April/May 2007 to approve full packet for supplemental EIS