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Portland, OR 97232-2736
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Metro | Agenda

Meeting: **Metro Council Work Session**
Date: Thursday, October 9, 2014
Time: 2 p.m.
Place: Council Chamber

CALL TO ORDER AND ROLL CALL

2 PM	**1.**	**CHIEF OPERATING OFFICER COMMUNICATION**	
2:15 PM (65 Min)	**2.**	**2015 URBAN GROWTH MANAGEMENT DECISION:** • **DRAFT 2014 URBAN GROWTH REPORT ASSESSMENT OF EMPLOYMENT CAPACITY NEEDS** • **UPDATE OF THE REGIONAL INDUSTRIAL SITE READINESS PROJECT**	**Ted Reid, Metro** **John Williams, Metro** **Keith Leavitt, Port of Portland** **Marion Haynes, Portland Business Alliance**
3:20 PM	**3.**	**METRO ATTORNEY COMMUNICATION**	**Alison Kean, Metro**
3:30 PM	**4.**	**COUNCILOR COMMUNICATION**	

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Agenda Item No. 2.0

2015 GROWTH MANAGEMENT DECISION: DRAFT 2014 URBAN GROWTH REPORT ASSESSMENT OF EMPLOYMENT CAPACITY NEEDS AND UPDATE OF THE REGIONAL INDUSTRIAL SITE READINESS PROJECT

Metro Council Work Session
Thursday, Oct. 9, 2014
Metro, Council Chamber

METRO COUNCIL

Work Session Worksheet

PRESENTATION DATE: October 9, 2014 **LENGTH:** One hour

PRESENTATION TITLE: 2015 growth management decision:
- Draft 2014 Urban Growth Report's assessment of employment capacity needs;
- Update of the Regional Industrial Site Readiness project

DEPARTMENT: Planning and Development

PRESENTER(S): Ted Reid, ted.reid@oregonmetro.gov, 503-797-1768
John Williams, john.williams@oregonmetro.gov, 503-797-1635
Keith Leavitt, Port of Portland
Marion Haynes, Portland Business Alliance

WORK SESSION PURPOSE & DESIRED OUTCOMES

Purpose:
- Provide Council with the opportunity to discuss possible policy implications of the employment analysis found in the draft 2014 Urban Growth Report (UGR).
- Provide Council with the 2014 update of the Regional Industrial Site Readiness project.

Outcome:
- Council identifies topics on which they would like MPAC's policy advice.

TOPIC BACKGROUND & FRAMING THE WORK SESSION DISCUSSION

Metro plays a key role in guiding the development of the Portland metropolitan region by striking a balance between the preservation of the farms and forest that surround the Portland region, revitalizing existing downtowns, main streets and employment areas, and ensuring there is land available for new development on the edge of the region when it is needed. Many regional and local policy and investment decisions are used to achieve those ends.

The regional growth management decision is one of those tools and provides a venue for the region to assess its performance. The draft UGR, released by staff in July, provides the Council and others with an opportunity to review challenges and opportunities associated with implementing regional and local plans. A core element of the UGR is to assess whether the urban growth boundary (UGB) has enough space for housing and job growth.

Staff has presented aspects of the draft UGR to the Council and MPAC over the last several months and will continue to bring forward aspects of the draft UGR for discussion this fall. At the October 9 work session, councilors will have the opportunity to discuss the employment analysis portion of the draft UGR.

An additional work program that complements the draft UGR is the update of the Regional Industrial Site Readiness project that has been completed by Metro and a variety of partners. This updated inventory is used in the draft UGR to describe the region's inventory of large industrial sites (sites with over 25 buildable acres). In the context of the growth management decision, staff's recommendation to Council is that there are an adequate number of these sites in the UGB to meet future employment growth, but that many of these sites need actions taken to make them development-ready to create jobs. Typical needs include site assembly, brownfield cleanup, infrastructure investment, and wetland mitigation. Similar actions and investments would be needed for either of the two urban reserve areas suitable for future industrial use.

Council and MPAC discussions of the draft 2014 UGR and the industrial site inventory will culminate on December 4, 2014, when staff will ask that the Council consider a resolution accepting the 2014 UGR as the basis for its subsequent growth management decision. The core question that the Council will be asked is whether the 2014 UGR provides the Council with a reasonable basis for the growth management decision it will make in 2015. MPAC will have a formal role in making a recommendation to the Council.

QUESTIONS FOR COUNCIL CONSIDERATION

- Does the Council have any questions for staff?
- Would Council like MPAC's policy advice on topics related to the draft 2014 UGR's employment analysis or Regional Industrial Site Readiness project?

PACKET MATERIALS

- Would legislation be required for Council action x Yes ¨ No
- If yes, is draft legislation attached? x Yes ¨ No
- What other materials are you presenting today?
  - Draft 2014 Urban Growth Report
  - 2014 Regional Industrial Site Readiness report

BEFORE THE METRO COUNCIL

FOR THE PURPOSE OF ACCEPTING THE POPULATION AND EMPLOYMENT FORECASTS AND THE URBAN GROWTH REPORT AS SUPPORT FOR DETERMINATION OF CAPACITY OF THE URBAN GROWTH BOUNDARY	)	RESOLUTION NO. 14-XXXX Introduced by Chief Operating Officer Martha Bennett with the Concurrence of Council President Tom Hughes

WHEREAS, state law requires Metro to determine the capacity of the urban growth boundary (UGB) to accommodate the next 20 years' worth of population and employment growth by the end of December 2014; and

WHEREAS, regarding housing, ORS 197.296(3) requires Metro to inventory the supply of buildable lands within the UGB, determine the housing capacity of the buildable lands, and analyze housing need by type and density range in order to determine the number of dwelling units and amount of land needed for each housing type for the next 20 years; and

WHEREAS, regarding employment land, Goal 14 and its implementing rules require Metro to inventory existing vacant and developed employment lands within the UGB and to provide an adequate supply of land to accommodate demonstrated need for employment opportunities; and

WHEREAS, Metro convened a peer review panel consisting of economists and demographers to review the assumptions and results of its population and employment forecasts; and

WHEREAS, from February 2013 to September 2013 Metro convened a technical working group consisting of public and private sector experts to develop a methodology for identifying the region's buildable land inventory; and

WHEREAS, from October 2013 to December 2013 Metro made available to all local jurisdictions in the region its preliminary buildable land inventory; and

WHEREAS, Metro incorporated local jurisdiction input on the buildable land inventory; and

WHEREAS, in March and April of 2014 Metro convened public and private sector experts to discuss methods for determining how much of the region's buildable land inventory may be market-feasible by the year 2035; and

WHEREAS, in April 2014 Metro convened public and private sector experts to review assumptions about space usage by different employment sectors; and

WHEREAS, on July 15, 2014 Metro published a Draft 2014 Urban Growth Report that incorporates the regional forecast and buildable land inventory and assesses the capacity of the existing UGB to accommodate the range of new dwelling units and jobs included in the forecast; and

WHEREAS, state law requires Metro to provide capacity to encourage the availability of dwelling units at price ranges and rent levels, and of transportation choices, that are commensurate with the financial capabilities of households expected over the planning period; and

WHEREAS, as part of the 2014 Draft Urban Growth Report, Metro published a draft Housing Needs Analysis that showed the effects on housing affordability and household transportation costs of forecast growth under existing policies and investment levels; and

WHEREAS, Metro sought and received comments on the draft analyses of housing and employment capacity from its Metro Policy Advisory Committee (MPAC), its Metro Technical Advisory Committee (MTAC), its Transportation Policy Alternatives Committee (TPAC), local governments in the region, public, private and non-profit organizations; and

WHEREAS, the Metro Council intends to continue a discussion in 2015 regarding several policy considerations reflected in the Draft Urban Growth Report including the market feasibility of the region's buildable land inventory, the possible outcomes of implementing existing plans and policies, and city plans for urban reserves; and

WHEREAS, the Metro Council held a public hearing on the draft analysis on December 4, 2014; now, therefore,

BE IT RESOLVED that:

1. The Council accepts the 2014 Draft Urban Growth Report dated September 2014, attached and incorporated into this resolution as Exhibit A, as a draft analysis of need for capacity in the UGB to accommodate growth to the year 2035 and for actions the Council may take to add housing and employment capacity by ordinance in 2015, pursuant to ORS 197.296(6) and statewide planning goals 14 and 10.

2. Acceptance of Exhibit A by the Council meets Metro's responsibility under state law to analyze the capacity of the UGB in order to accommodate growth to the year 2035 as a preliminary step toward providing sufficient capacity to accommodate that growth. The Council will formally adopt the Urban Growth Report by ordinance in 2015, along with any actions the Council may take to add housing and employment capacity.

ADOPTED by the Metro Council this ___ day of December 2014

____
Tom Hughes, Council President

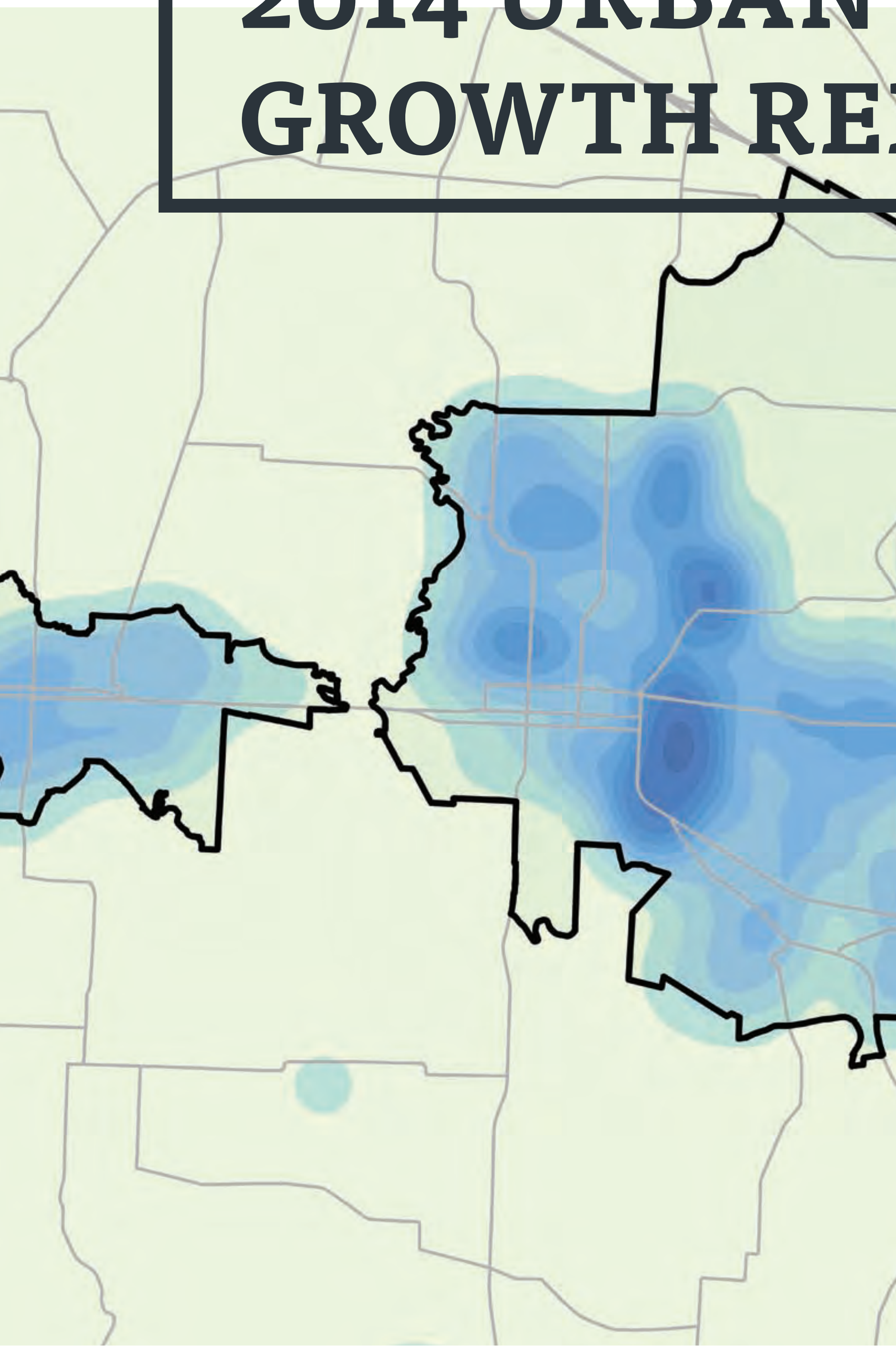
Approved as to form:

____
Alison R. Kean, Metro Attorney

September / 2014

2014 URBAN GROWTH REPORT

Revised Draft



Investing in our communities

2015 – 2035

Metro | *Making a great place*

If you picnic at Blue Lake or take your kids to the Oregon Zoo, enjoy symphonies at the Schnitz or auto shows at the convention center, put out your trash or drive your car – we've already crossed paths.

So, hello. We're Metro – nice to meet you.

In a metropolitan area as big as Portland, we can do a lot of things better together. Join us to help the region prepare for a happy, healthy future.

Metro Council President

Tom Hughes

Metro Councilors

Shirley Craddick, District 1

Carlotta Collette, District 2

Craig Dirksen, District 3

Kathryn Harrington, District 4

Sam Chase, District 5

Bob Stacey, District 6

Auditor

Suzanne Flynn

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To learn more about the growth management decision and the urban growth report, visit **oregonmetro.gov/growth**

Printed on recycled-content paper. 14226-R

Revised Draft

2014 URBAN GROWTH REPORT

Investing in our communities

2015 – 2035

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APPENDICES

Introduction

As the Portland metropolitan region grows, our shared values guide policy and investment choices to accommodate growth and change, while ensuring our unique quality of life is maintained for generations to come.

Metro, local jurisdictions and many other partners work together to guide development in the region. This means striking a balance between preservation of the farms and forests that surround the Portland region, supporting the revitalization of existing downtowns, main streets and employment areas, and ensuring there's land available for new development on the edge of the region when needed.

Oregon law requires that every five years, the Metro Council evaluate the capacity of the region's urban growth boundary to accommodate a 20-year forecast of housing needs and employment growth. The results of that evaluation are provided in the urban growth report.

While complying with the requirements of state law, the urban growth report serves as more than just an accounting of available acres inside the urban growth boundary. It plays a vital role in the implementation of the region's 50-year plan that calls for the efficient use of land, redevelopment before expansion, and the preservation of the region's resources for future generations.

ACHIEVING DESIRED OUTCOMES

To guide its decision-making, the Metro Council, on the advice of the Metro Policy Advisory Committee (MPAC), adopted six desired outcomes, characteristics of a successful region:

- People live, work and play in vibrant communities where their everyday needs are easily accessible.
- Current and future residents benefit from the region's sustained economic competitiveness and prosperity.
- People have safe and reliable transportation choices that enhance their quality of life.
- The region is a leader in minimizing contributions to global warming.
- Current and future generations enjoy clean air, clean water and healthy ecosystems.
- The benefits and burdens of growth and change are distributed equitably.

WORKING TOGETHER

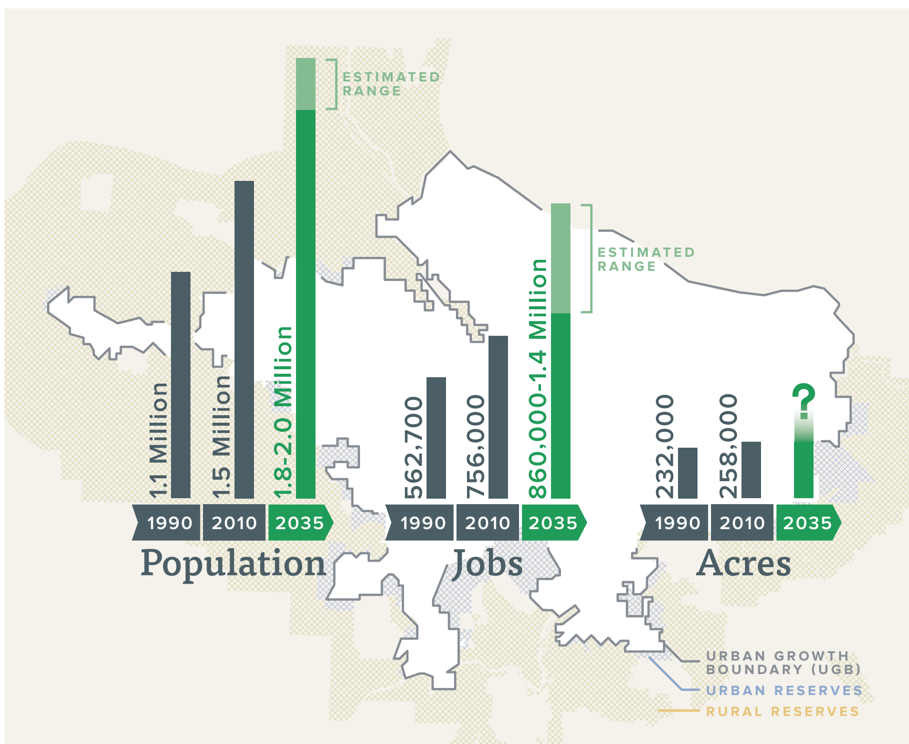
The population and employment range forecasts in the urban growth report help inform Metro, local jurisdictions, and other public and private sector partners as they consider new policies, investments, and actions to maintain the region's quality of life and promote prosperity.

The urban growth report, once accepted in its final form by the Metro Council in December 2014, will serve as the basis for the council's urban growth management decision, which will be made by the end of 2015.

But the work does not end with the council's decision. Implementation will require coordination of local, regional and state policy and investment actions. In its role as convener for regional decision-making, Metro is committed to building and maintaining partnerships and alignments among the different levels of government and between the public and private sectors.

Past growth-future forecast

Population and job growth within the Metro urban growth boundary *1990-2035*



SUCCESSES AND CHALLENGES

The region's longstanding commitment to protecting farms and forests, investing in existing communities, and supporting businesses that export goods and services is paying off in economic growth. From 2001 to 2012, the Portland region ranked third among all U.S. metropolitan areas for productivity growth, outpacing the Research Triangle in North Carolina, the Silicon Valley in California, and several energy producing regions in Texas.[i] Likewise, the region's walkable downtowns, natural landscapes, and renowned restaurants, breweries, and vineyards are well known around the world. In 2013, visitors to Clackamas, Multnomah and Washington counties spent $4.3 billion dollars, supporting 30,100 jobs in the region.[ii] These successes are no accident – they demonstrate that prosperity, livability and intentional urban growth management are compatible.

However, Metro and its partners also have challenges to face when it comes to planning for additional population and employment growth. These include making sure that workforce housing is available in locations with access to opportunities, providing more family-friendly housing choices close to downtowns and main streets, delivering high quality transportation options that help people get where they need to go, ensuring freight mobility, and protecting and enhancing the environment.

HOW WE ACCOMMODATE GROWTH

URBAN AND RURAL RESERVES Areas outside the current UGB designated by Metro and the three counties through a collaborative process. Urban reserves are the best places for future growth if urban growth expansions are needed over the next 50 years. Rural reserves are lands that won't be urbanized for the next 50 years.

INFILL Development on a tax lot where the original structure has been left intact and the lot is considered developed.

REDEVELOPMENT Development on a tax lot where the original structure has been demolished and there is a net increase in housing units.

VACANT LAND Land inside the UGB that's not developed.

Outcomes-based approach to growth management

A core purpose of the urban growth report is to determine whether the current urban growth boundary (UGB) has enough space for future housing and employment growth. Considerable care and technical engagement have gone into the assessment of recent development trends, growth capacity, and the population and employment forecasts provided in this report. However, this kind of analysis is necessarily part art and part science. State laws direct the region to determine what share of growth can "reasonably" be accommodated inside the existing UGB before expanding it but ultimately, how the region defines "reasonable" will be a reflection of regional and community values.

RESIDENTIAL BUILDABLE LAND INVENTORY

If the region's historic annual housing production records (high and low from 1960 to 2012) are any indication, how long might the residential buildable land inventory last?

SINGLE FAMILY 10 to 52 years

MULTIFAMILY 28 to 354 years

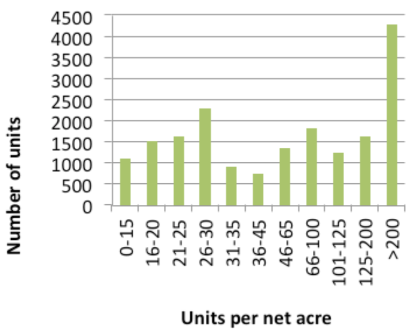


FIGURE 1 Net new multifamily units by density inside UGB *(built 2007-2012)*

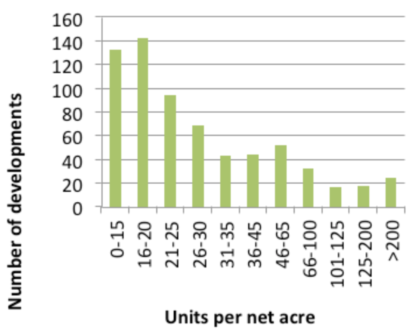
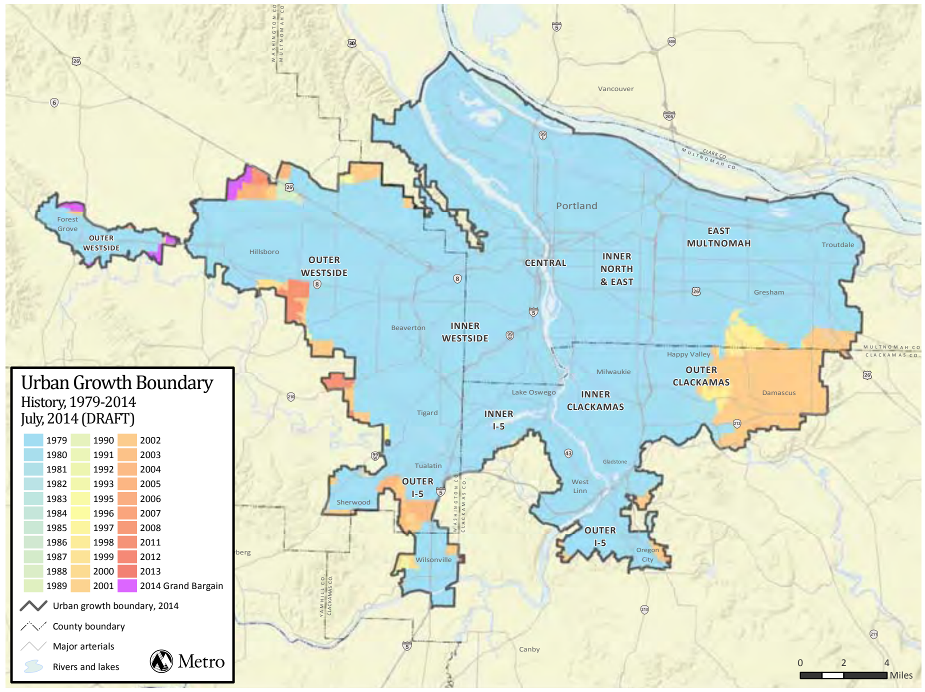


FIGURE 2 Net new multifamily developments by density inside UGB *(built 2007-2012)*



MAP 1 Metro UGB expansions over time *(1979 - 2014)*

How has the region been growing?

The Portland region's original urban growth boundary was adopted in 1979. As depicted in Map 1, the UGB has been expanded by about 31,400 acres. During the same time period, the population inside the UGB has increased by over half a million people. This represents a 61 percent increase in population inside an urban growth boundary that has expanded by 14 percent.

RESIDENTIAL DEVELOPMENT TRENDS

From 1998 to 2012, 94 percent of the new residential units were built inside the original 1979 boundary. During these 14 years, post-1979 UGB expansion areas produced about 6,500 housing units compared to the approximately 105,000 units produced in the original 1979 UGB. With a couple of notable exceptions, UGB expansion areas have been slow to develop because of challenges with governance, planning, voter-approved annexation, infrastructure financing, service provision, and land assembly. Development of Wilsonville's Villebois and Hillsboro's Witch Hazel communities demonstrates that new urban areas can be successful with the right combination of factors such as governance, infrastructure finance, willing property owners, and market demand. There are also challenges in our existing urban areas. Infill and redevelopment have been focused in a few communities while many downtowns and main streets have been slow to develop.

The 2040 Growth Concept, the Portland region's 50-year plan for growth, calls for focusing growth in existing urban centers and transportation corridors, and making targeted additions to the urban growth boundary when needed. To achieve this regional vision, redevelopment and infill are necessary. During the six years from 2007 through 2012, which included the Great Recession, the region saw levels of redevelopment and infill that exceeded past rates.

During this time period, 58 percent of the net new residential units built inside the UGB were through redevelopment (46 percent) or infill (12 percent) and 42 percent were on vacant land. There are a variety of views on whether the recession explains this uptick in redevelopment and infill or whether this is an indication of people wanting to live in existing urban areas with easy access to services and amenities. What is clear is that development challenges exist in both urban areas and past expansion areas. In some cases, however, market demand in existing urban areas appears to have overcome those challenges.

During this same six years, new residential development was evenly split between multifamily and single-family units with a total of 12,398 single-family and 12,133 multifamily residences built. The average density of new single-family development was 7.6 units per acre (5,766 square foot average lot size) and multifamily development was 41.8 units per acre. The highest density multifamily developments also tended to be the largest, so while there were many smaller developments, the statistics are dominated by the large high-density developments. This pattern is clear in Figures 1 and 2 (p. 8), which depict the number of units and developments built per net acre, indicating levels of density.

EMPLOYMENT TRENDS

As in most regions, many people in the Portland region lost their jobs in the Great Recession. With the ensuing recovery, total employment in the region was essentially unchanged when comparing 2006 and 2012. However, the recession did lead to some major changes across industries. Private education recorded the highest growth rate at 25.4 percent from 2006 to 2012, while health and social assistance employers saw the largest net gain in employment with the addition of just over 14,000 jobs during the same period. Construction saw the largest decline, with a loss of around 9,600 jobs, or 20.2 percent of total jobs, in the industry as of 2006. The loss of construction jobs reflects the housing crash that brought residential construction nearly to a halt for several years. Appendix 8 describes the region's employment trends in greater detail.

Aggregating to the sector level, industrial and retail employment declined from 2006 to 2012 while service and government employment increased (Table 1).

Sector	2006 Employment	2012 Employment	Net Change	Percent Change	Avg. Annual Growth Rate
Industrial	244,951	218,311	-26,640	-10.9%	-1.9%
Retail	86,921	84,475	-2,446	-2.8%	-0.5%
Service	396,470	419,516	23,046	5.8%	0.9%
Government	103,736	108,582	4,846	4.7%	0.8%

Table 1 Employment in the three-county area by aggregated sector *2006-2012 (Clackamas, Multnomah, Washington)* | **Source** *Quarterly Census of Employment and Wages*

Policy considerations

HEALTHY DEBATE AND INFORMED DECISION-MAKING

Though this report strives for completeness, balance, and accuracy, there is always room for debate. At the end of 2014, the Metro Council will be asked to decide if the report provides a reasonable basis for moving forward and making a growth management decision in 2015. Throughout this document, policy questions and topics that have been raised by Metro Council and involved stakeholders are called out for further discussion by policymakers and members of the community.

LAND READINESS OR LAND SUPPLY?

For better or worse, our state land use planning system asks Metro to focus on counting acres of land to determine the region's 20-year growth capacity. Over the years, it's become clear that land supply alone isn't the cause or the solution for all of the region's challenges. Working together, we must make the most of the land we already have inside the urban growth boundary to ensure that those lands are available to maintain, improve, and create the kinds of communities that we all want – today and for generations to come.

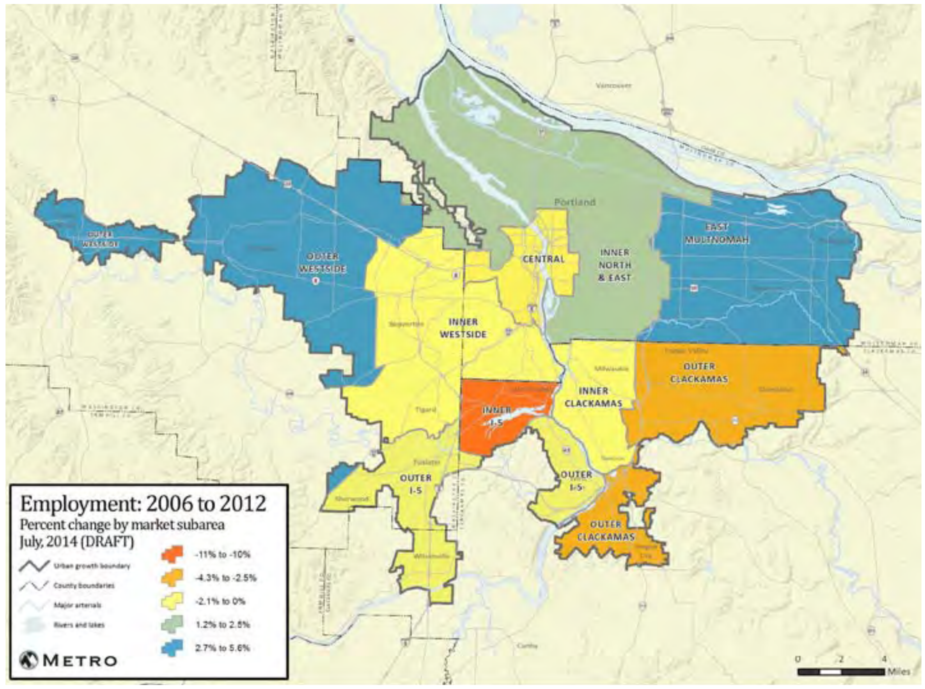
Working together, we can:

- ensure that communities have governance structures in place that can respond to growth and change
- provide the types of infrastructure and services that signal to the development community a site or area is primed for investment
- make the strategic investments needed to clean up and reuse neglected lands.

Policy considerations

CHANGES IN OUR COMMUNITIES

People around the region are concerned about new development in their communities. The concern exists not just in existing urban areas experiencing a new wave of development, but also in areas added to the urban growth boundary. With population growth expected to continue, change is inevitable. What policies and investments are needed to ensure that change is for the better?



Map 2 Employment gains and losses in Metro UGB *2006 - 2012*

From 2006 to 2012, there was also a change in where jobs were located in the three-county area (Map 2). While about 25 percent of all jobs could still be found in the central part of the region, the subarea experienced a loss of about 2,300 jobs, or 1.2 percent. The inner I-5 area saw a decline in employment of roughly 2,200 jobs, or 11.0 percent of 2006 employment. This area was home to many firms involved in real estate and finance, industries that were hard hit by the housing collapse and recession. Many businesses in the area, like mortgage and title companies, contracted or closed during this time period. For example, the Kruse Way area in Lake Oswego had an office vacancy rate of 22.4 percent in 2012. In the southeastern part of the region, the outer Clackamas and outer I-5 subareas together lost about 3,400 jobs or 3.2 percent. In contrast, the outer Westside experienced the greatest increase in employment, gaining about 5,800 jobs, an increase of 5.6 percent. The East Multnomah subarea also gained jobs, increasing employment by 1,800 or 2.7 percent.

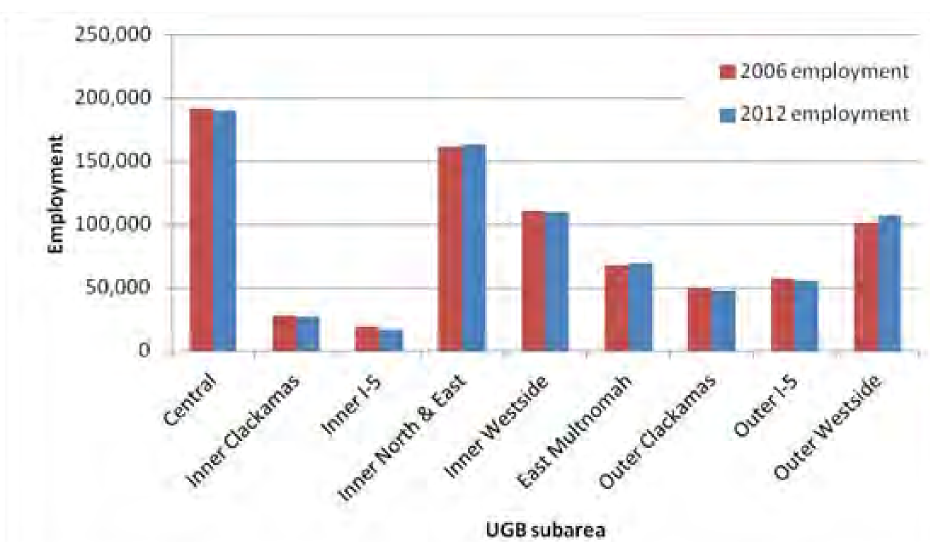


Figure 3 Total employment by subarea for 2006 and 2012

Case study

VILLEBOIS, WILSONVILLE

The Villebois community is one of only a few urban growth boundary expansion areas that has been developed. The roughly 500-acre area was brought into the UGB in 2000. With plans for about 2,600 households, the area quickly rebounded from the recession and is now about half built. Residents benefit from a variety of amenities such as parks, plazas, and community centers.

Case study

HASSALO ON 8TH, LLOYD DISTRICT, PORTLAND

Adjacent to MAX and streetcar stops, construction is now underway on a site that was previously a parking lot. Once built, the development will provide over 600 rental apartments, plazas, office and retail space, more than 1,000 underground car parking places, and space to park more than 1,000 bikes – all in a central location.

Policy considerations

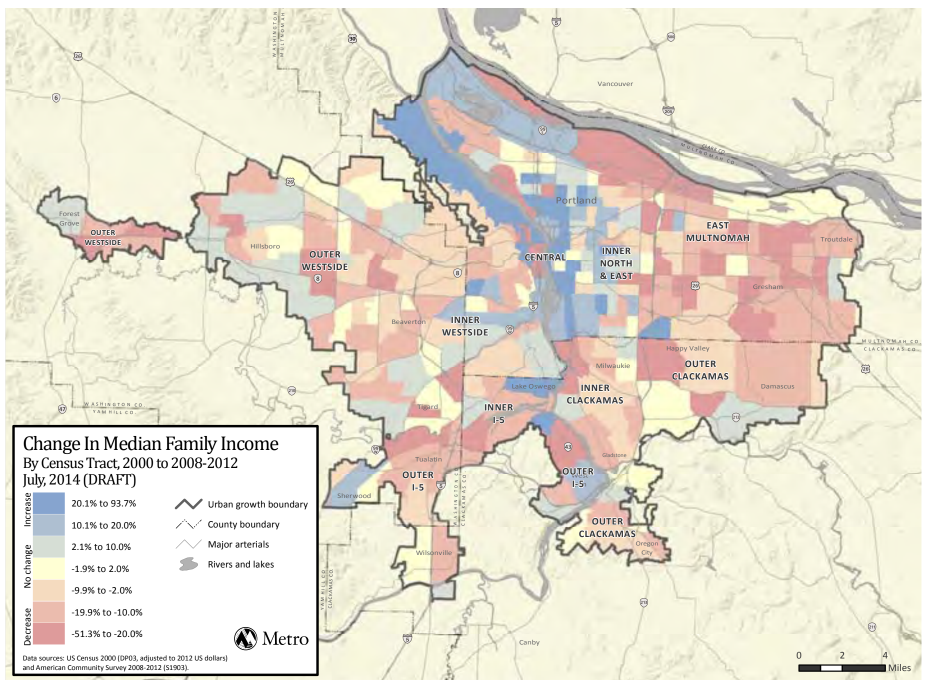
OPPORTUNITIES FOR WORKFORCE HOUSING

Market-rate workforce housing is typically provided by existing housing stock, not new construction. Yet, existing housing in locations with good access to jobs is often too expensive for the region's workforce. What policies, investments, innovative housing designs and construction techniques could provide additional workforce housing in locations with good transportation options? Who has a role?

UNINTENDED CONSEQUENCES OF REDEVELOPMENT

Our region has made a commitment to ensuring its decisions improve quality of life for all. Yet, like many metropolitan areas, we've struggled to make good on that intent. Investments made to encourage redevelopment and revitalization have too often disproportionately impacted those of modest means. The consequence has been that people with lower incomes have often been displaced from their long-time communities when redevelopment in the city center drives up land values and prices follow.

Map 3 shows the change in median family income around the region over the last decade. There is a clear trend of incomes increasing in close-in Northwest, Northeast, and Southeast Portland, Lake Oswego, and West Linn, while incomes have stagnated or decreased elsewhere. Outlying areas like outer east Portland, Gresham, Cornelius, and Aloha stand out as having decreasing incomes. In many cases, increases in incomes in central locations and decreases elsewhere indicate displacement of people from their communities as housing prices increase.



Map 3 Change in median family income *2000-2012*

GROWTH WITHOUT SERVICES AND FACILITIES

Over the last couple of decades, the trend of depopulation of the urban core and the movement of the middle class to the suburbs has reversed in many regions in the U.S. The Portland metropolitan region is no exception. While there have been positive outcomes, this has also led to displacement and concentrations of poverty in places that lack adequate services and facilities like sidewalks and transit. Additional information about access to opportunity around the region can be found in Appendix 10. Information about housing and transportation cost burdens can be found in Appendix 12.

COMMUTING TRENDS: THE JOBS-HOUSING BALANCE

For years, leaders have talked about a jobs-housing balance – ensuring there are homes close to employment areas. But evidence and common sense tell us that people's lives don't neatly line up with the available housing inventory. Some people work at or close to home, some commute from one end of the region to the other, and some live halfway between where they work and their spouse works. In other words, putting homes next to major employers doesn't necessarily cut down on commuting.

However, services and amenities near residential areas can make our lives outside of jobs and commutes easier and help create strong local economies. When people can go out to eat, do their shopping, visit the bank or see a doctor close to where they live, they spend less time going somewhere and more time with friends and family, actively enjoying their communities and the region.

Map 4 illustrates the region's commute patterns. Using Washington County as an example (2011 data):[iii]

- about 120,000 people who live in Washington County also work there
- about 118,000 people who live outside Washington County work in Washington County
- about 104,000 people who live in Washington County work outside Washington County.

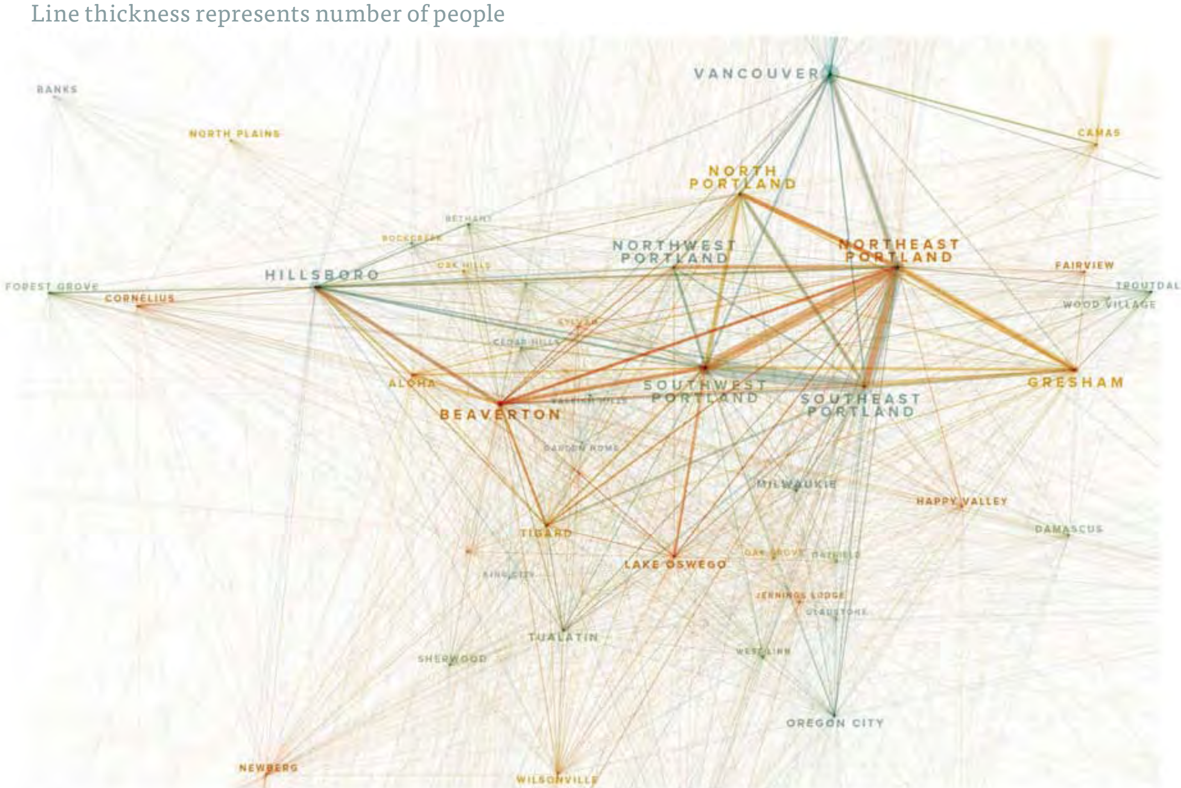
Policy considerations

A BIGGER PICTURE

Regional and local policies and investments also interact with actions taken in neighboring cities, Clark County and Salem. What are the best policies for using land efficiently and reducing time spent in traffic?

TRAVEL COMMUTE PATTERNS

2011 commute patterns from cities/places in the Portland metropolitan region
Lines connect a person's place of residence to place of employment
Line thickness represents number of people



DATA SOURCE: LONGITUDINAL EMPLOYER-HOUSEHOLD DYNAMICS, U.S. CENSUS BUREAU

Policy considerations

MANAGING UNCERTAINTY

- What are the risks and opportunities of planning for higher or lower growth in the forecast range?
- Recognizing that the two forecasts are linked, are there different risks when planning for employment or housing growth?
- Are there different risks when planning for land use, transportation, or for other infrastructure systems?
- Who bears the public and private costs and benefits associated with different growth management options?

How many more people and jobs should we expect in the future?

A core question this report addresses is how many more people and jobs should the region plan for between now and the year 2035. In creating the 2035 forecast, Metro convened a peer review group consisting of economists and demographers from Portland State University, ECONorthwest, Johnson Economics, and NW Natural. The forecast assumptions and results in this report reflect the recommendations of this peer review panel. A summary of the peer review can be found in Appendix 1C.

However, even with a peer review of the forecast, some forecast assumptions will turn out to be incorrect. For that reason, the population and employment forecasts in this report are expressed as ranges, allowing the region's policymakers the opportunity to err on the side of flexibility and resilience in choosing a path forward. As with a weather forecast, this population and employment range forecast is expressed in terms of probability. The baseline forecast (mid-point in the forecast range) is Metro staff's best estimate of what future growth may be. The range is bounded by a low end and a high end. There is a ninety percent chance that actual growth will occur somewhere in this range, but the probability of ending up at the high or low ends of the range is less.

Appendix 1B describes the accuracy of past forecasts. These typically have been reliable, particularly when it comes to population growth. For example, Metro's 1985 to 2005 forecast proved to be off by less than one percent per year for both population and employment over the 20-year time frame.

POPULATION AND JOB GROWTH IN THE SEVEN-COUNTY PORTLAND/VANCOUVER METROPOLITAN AREA

To "show our work" and to understand our region in its economic context, this analysis starts with a forecast for the larger seven-county Portland/Vancouver/Hillsboro metropolitan area.[2] Full documentation of the metropolitan area forecast is available in Appendix 1A. It is estimated that there will be about 470,000 to 725,000 more people in the seven-county area by the year 2035. Mid-point in the forecast range, or best estimate, is for 600,000 more people. This amount of growth would be consistent with the region's past growth; the seven-county area grew by about 600,000 people between 1985 and 2005 and by about 700,000 from 1990 to 2010. Adding 600,000 people would be comparable to adding the current population of the city of Portland to the area.

The forecast calls for 120,500 to 648,500 additional jobs in the seven-county Portland/Vancouver metropolitan area between 2015 and 2035. The forecast range for employment is wider than the forecast range for population since regional employment is more difficult to predict in a fast-moving global economy. Unexpected events like the Great Recession, technological advances, international relations, and monetary policy can lead to big changes. Mid-point in the forecast range, or best estimate, is for 384,500 additional jobs. This amount of growth would surpass the 240,000 additional jobs that were created in the seven-county metropolitan area during the 20-year period from 1990 to 2010, which included job losses from the recession.

2 The seven-county Portland/Vancouver metropolitan area includes Clackamas, Clark, Columbia, Multnomah, Skamania, Washington, and Yamhill counties.

POPULATION AND JOB GROWTH IN THE METRO UGB

A market-based land and transportation computer model is used to determine how many of the new jobs and households in the seven-county area are likely to locate inside the Metro urban growth boundary. The model indicates that about 75 percent of new households and jobs may locate inside the UGB. The share of regional growth accommodated inside the boundary varies depending on what point in the forecast range is chosen. More detail can be found in Appendices 4 and 6. It is estimated that there will be about 300,000 to 485,000 additional people inside the Metro urban growth boundary between 2015 and 2035 (Figure 4). At mid-point in this range, the UGB will have about 400,000 additional people. This would be comparable to adding more than four times the current population of the city of Hillsboro to the UGB . The population forecast is converted into household growth for this analysis.

It is estimated that there will be about 85,000 to 440,000 additional jobs in the Metro UGB between 2015 and 2035 (Figure 5). At mid-point in this range, there would be about 260,000 additional jobs between 2015 and 2035. This job forecast is converted into demand for acres for this analysis.

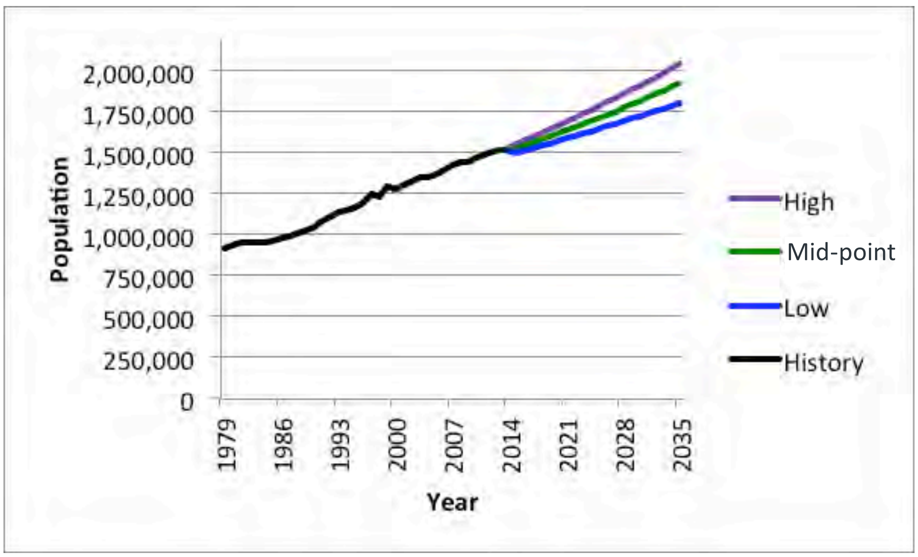


Figure 4 Population history and forecast for Metro UGB *1979 - 2035*

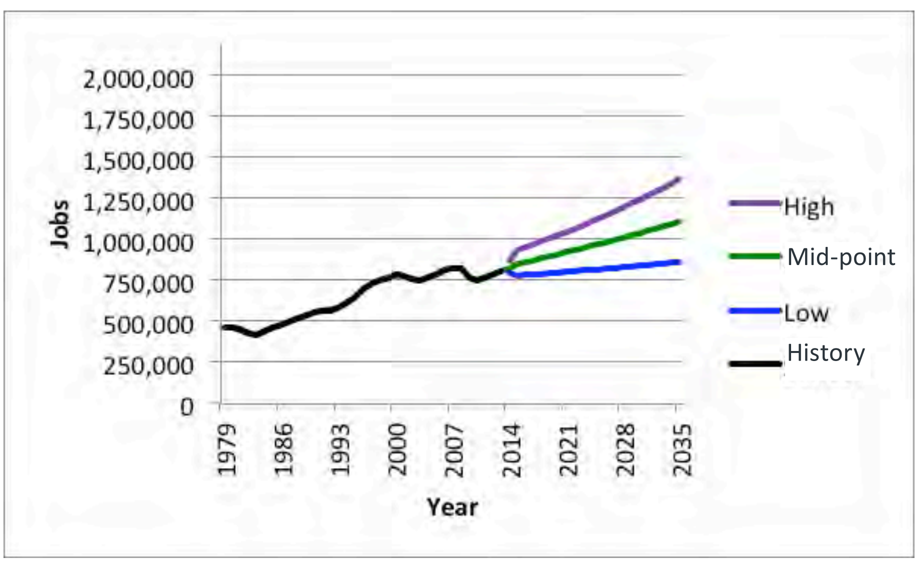


Figure 5 Employment history and forecast for Metro UGB, *1979-2035*

DIDN'T THE STATE LEGISLATURE JUST EXPAND THE UGB?

Signed into state law in the spring of 2014, HB 4078 codifies the fundamental principles behind our region's decision about urban and rural reserves. The legislation provides greater protection for farms, forests and natural areas, offers predictability to our communities, home builders and manufacturers, and makes our land use system more efficient. The legislation also expanded the UGB in several locations in Washington County and described how Metro must account for those lands in this urban growth report.

How much room for growth is there inside the UGB?

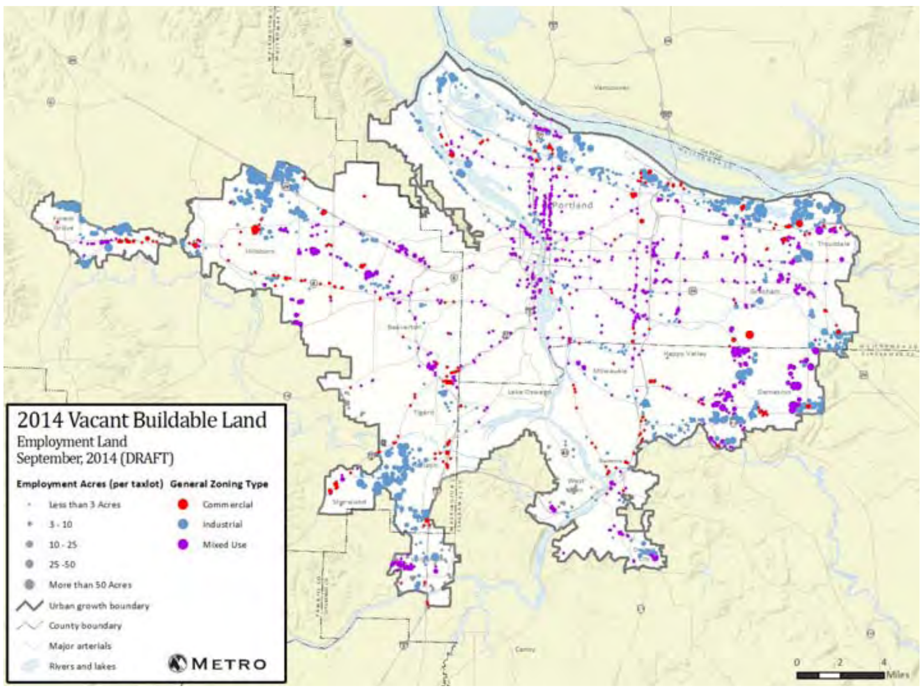
Cities and counties around the region plan for the future and prioritize investments that support their community's vision. In most cases, however, long-term plans for downtowns, main streets and employment areas are more ambitious than what is actually built or redeveloped. One task of this analysis is to help us understand how the market might respond to long-term community plans in the next 20 years.

To analyze the region's growth capacity, detailed aerial photos of all the land inside the urban growth boundary were taken. Factoring in current adopted plans and zoning designations, the photos were used to determine which parcels of land were developed and which were vacant. Methodologies for assessing the redevelopment potential and environmental constraints of the land were developed over the course of a year by Metro and a technical working group consisting of representatives from cities, counties, the state and the private sector (see pages 30-31 for a complete list of technical working group members).

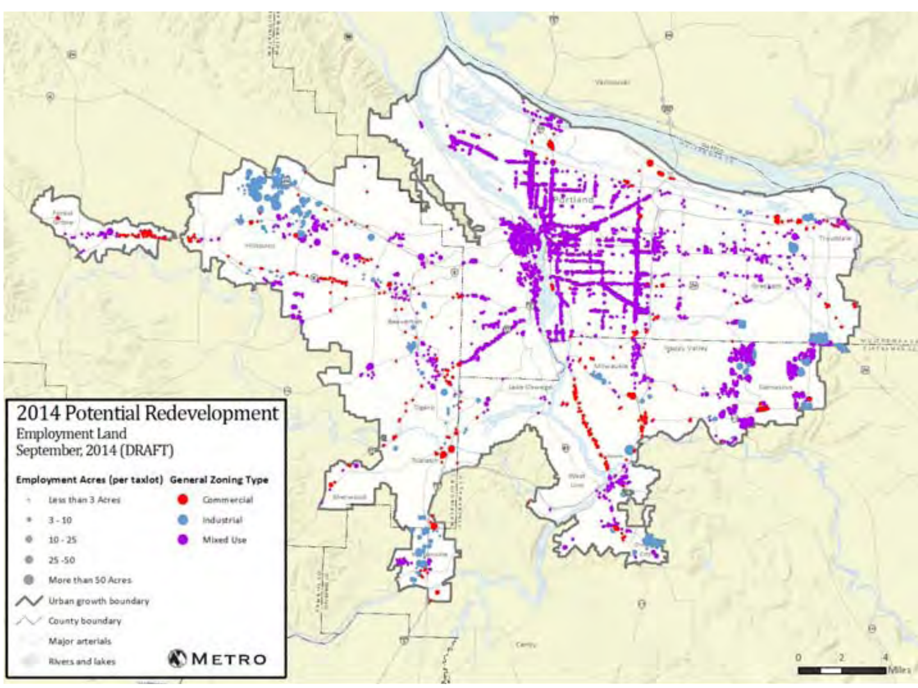
After settling on the methodology described in Appendix 2, Metro produced a preliminary buildable land inventory that local cities and counties had more than two months to review. The draft buildable land inventory described in Appendix 3 reflects refined local knowledge about factors such as environmental constraints including wetlands, steep slopes, and brownfield contamination. Maps 4 through 7 illustrate the buildable land inventory reviewed by local jurisdictions. They are available at a larger scale in Appendix 3. The buildable land inventory is considered a "first cut" at determining the region's growth capacity. For a variety of reasons described in the next section, not all of it may be developable in the 20-year time frame.

ESTIMATING RESIDENTIAL GROWTH CAPACITY

Current plans and zoning allow for a total of almost 1.3 million residences inside the urban growth boundary after accounting for environmental constraints and needs for future streets and sidewalks. About half of that potential capacity is in use today. This urban growth report does not count all of this capacity since doing so would assume that every developed property in the region will redevelop to its maximum density in the next twenty years. A rational developer will only build products that are expected to sell. Redevelopment requires market demand, which is a function of a number of factors, including expected population growth. This affects whether a property will be redeveloped and at what density.



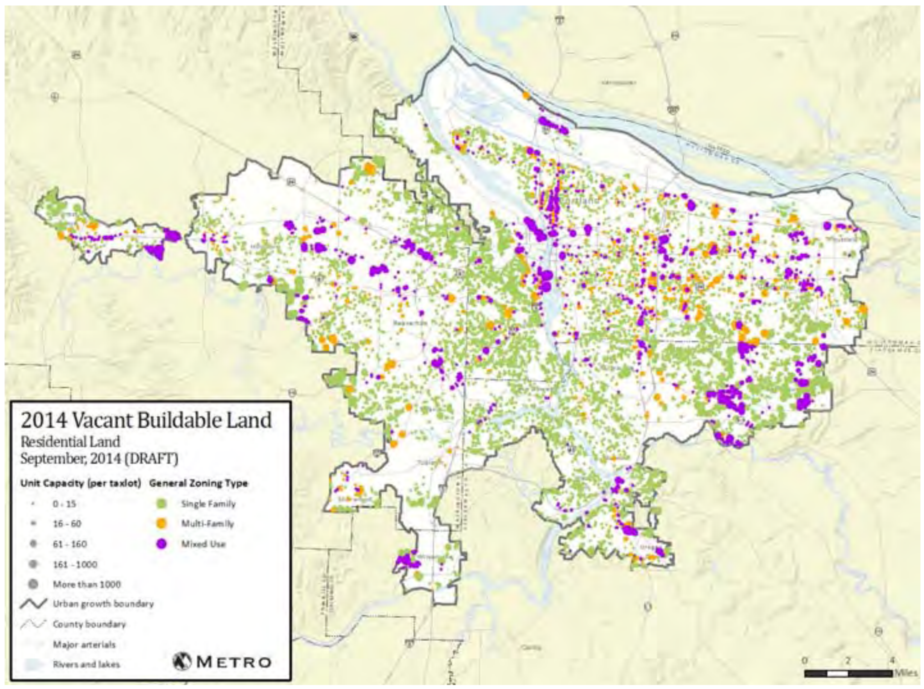
Map 4 Employment vacant buildable tax lots *(reviewed by local jurisdictions)*



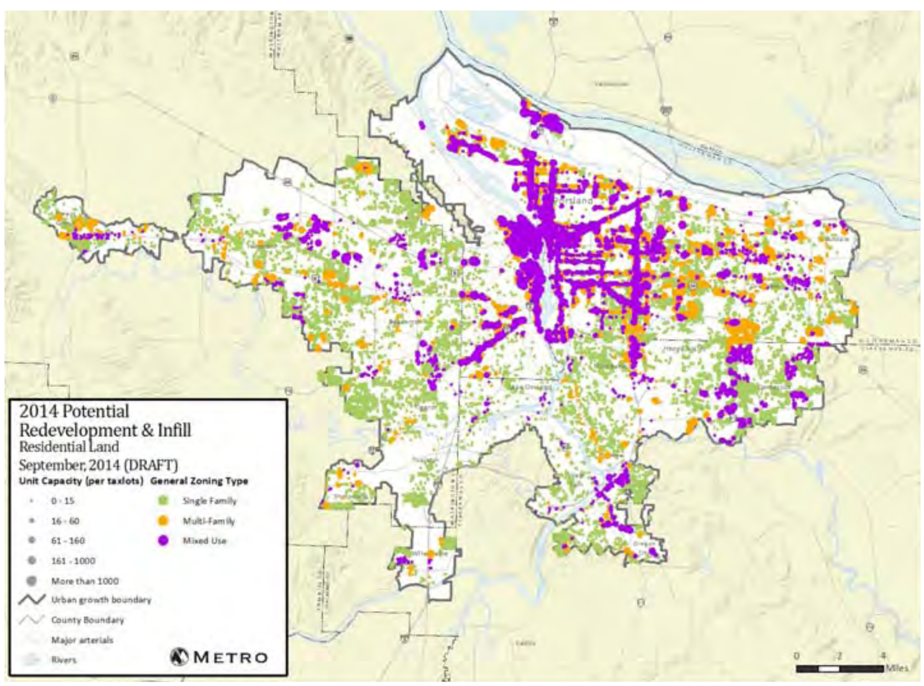
Map 5 Employment infill and redevelopment candidate tax lots *(reviewed by local jurisdictions)*

Acknowledging this complexity, Metro staff convened representatives from cities, counties, the state and the private sector to establish consensus for estimating how much of the region's buildable land inventory might be absorbed by the year 2035 (see pages 30-31 for a complete list of technical working group members). Redevelopment and infill are most common in locations where there is significant demand for housing, so the growth capacity from redevelopment and infill rises with assumptions for population growth. For this reason, the region's residential growth capacity is expressed as a range. The amount of growth capacity that the region has depends, in part, on the point in the household forecast range for which the Metro Council chooses to plan. Appendix 4 describes the approach for identifying the 20-year capacity range for housing.

Map 6 Residential vacant buildable tax lots *(reviewed by local jurisdictions)*



Map 7 Residential redevelopment candidate tax lots *(reviewed by local jurisdictions)*



HOW DO DEVELOPERS EVALUATE REDEVELOPMENT POTENTIAL?

The construction of new infill (original structure intact) and redevelopment (original structure demolished) projects is increasing in some places, fueled by a renewed interest in and market demand for housing and jobs close to the urban core. In order to realize a return on an investment, given the higher costs of urban redevelopment, investors will evaluate the redevelopment potential of the site by considering the following:

- Where is the site located? Is it an up and coming area?
- What is the value of the existing building or structure on the site? What is the value of the land? At what point does the building become worth less than the land it sits on?
- What is the developer allowed to build under the local zoning code?
- What are the construction costs and fees for the new building?
- How much will the developer be able to sell or rent space for in the new building?

Case study

4TH MAIN, HILLSBORO

With a shared vision for an active, historic main street area, Metro, the City of Hillsboro and the Federal Transit Administration worked together to attract private sector redevelopment of a city block adjacent to the Hillsboro Central MAX station. 4th Main offers 71 market-rate apartments, underground parking, and active retail along main street. The existing 1950s era vacant bank building on site is being updated for restaurant and retail use. When 4th Main opened in May 2014, over half the units were leased.

Policy considerations

HOW SHOULD POLICYMAKERS EVALUATE DEVELOPMENT POTENTIAL?

Since the adoption of the 2040 Growth Concept, there has often been skepticism about the viability of redevelopment as a source of growth capacity. Our region's history shows that developing urban growth boundary expansion areas is difficult as well. Aside from developing a concept plan, what other factors support the likelihood that an urban reserve will be developed if brought into the UGB?

ESTIMATING EMPLOYMENT GROWTH CAPACITY

To determine the UGB's employment growth capacity, analysis began with the creation of a buildable land inventory. As with the residential analysis, employment capacity depends on demand since different types of jobs have different space needs. For instance, an office job will have very different location and space needs than a warehouse job. Metro staff convened a group of public and private sector experts to help update these employment demand factors. Appendix 6 describes the approach for identifying the 20-year capacity range. (See pages 30-31 for a complete list of technical working group members).

Different jobs have different space needs

Is there a regional need for additional growth capacity?

Under state law, Metro's analysis must assess regional, not local or subregional, growth capacity needs. While some local jurisdictions may desire additional land for growth, this analysis is required to keep those needs in the regional context, knowing that other locations in the region may have greater growth capacity.

This analysis uses a probabilistic range forecast. The baseline forecast (middle of the range) has the highest probability. Though there is a 90 percent chance that growth will occur within the range, it is less probable at the low and high ends of the range.

DOES THE REGION NEED MORE LAND FOR HOUSING GROWTH?

Regional growth management policy alone cannot ensure adequate housing choices. Other elements that influence what kind of housing gets built include tax policy, lending practices, local plans and decisions, public investments, market demand, and developer responses. All of these factors impact housing production.

Appendix 4 describes in detail the residential demand analysis and includes estimates of potential demand by housing type (single-family and multifamily), tenure (own and rent), average density, as well as detail about demand from different household income brackets. For accounting purposes, the detailed analysis uses rigid supply and demand categories – for instance, single-family and multifamily. In reality, demand for these two housing types is somewhat fluid, particularly as average household sizes continue to decrease. By 2035, about 60 percent of new households are expected to include just one or two people.

WHAT THE NUMBERS SHOW

Population and employment forecasts in the urban growth report are expressed as ranges based on probability. Mid-point in the forecast range is Metro's best estimate of what future growth may be. It is less probable that growth will occur at the high or low ends of the range forecast.

This analysis looks at long-term capacity needs for:

- single-family and multifamily housing
- general industrial employment uses
- large industrial sites
- commercial employment uses.

This analysis finds that currently adopted plans can accommodate new housing at the low, middle or high ends of the growth forecast range. If policymakers choose to plan for the high end of the growth range, there is a need for additional capacity for new jobs.

Policy considerations

WHAT ABOUT DAMASCUS?

With its ongoing community and political challenges, how much of Damascus' growth capacity should be counted during the 2015 to 2035 time frame is more of a policy question than a technical question. For this analysis, Metro staff followed the advice of its technical advisory group and used a market-based model to determine that about half of Damascus' estimated buildable land inventory capacity could be counted in the "market-adjusted" residential supply. For modeling purposes, it was assumed that development challenges will persist in Damascus for another decade, delaying its availability to the market. If Damascus' capacity is not available, it may become somewhat more difficult to provide new single-family housing inside the existing urban growth boundary. Does the region have other options for making up for Damascus' capacity if it is not counted?

Policymakers have the challenge of balancing the type of housing and neighborhoods people prefer with funding realities, governance and annexation challenges. They also must consider regional and community goals such as preserving the character of existing neighborhoods, reducing carbon emissions, preserving farms and forests, and creating vibrant downtowns and main streets. To inform that discussion, Metro and a group of public and private sector partners conducted a study on residential preferences across the region and will make results available to policymakers in the early fall of 2014.

The capacity estimation method recommended by Metro's public and private sector advisory group recognizes that infill and redevelopment depend on demand. Consequently, the capacity from those two sources increases with greater household demand (i.e., a higher growth forecast results in a greater housing capacity).

Table 2 and Table 3 summarize the more detailed analysis of residential needs provided in Appendix 4.[3]

Single-family dwelling units

	Buildable land inventory	Market-adjusted supply	Market-adjusted demand	Surplus/ need
Low growth forecast	118,000	75,900	64,000	+11,900
Middle *(baseline)* growth forecast		90,000	76,900	+13,100
High growth forecast		97,000	90,800	+6,200

Table 2 Metro UGB single-family residential market analysis of existing plans and policies (2015-2035)[3]

Multifamily dwelling units

	Buildable land inventory	Market-adjusted supply	Market-adjusted demand	Surplus/ need
Low growth forecast	273,300	118,400	89,300	+29,100
Middle *(baseline)* growth forecast		130,100	120,500	+9,600
High growth forecast		165,100	145,900	+19,200

Table 3 Metro UGB multifamily residential market analysis of existing plans and policies (2015-2035)[3]

Over the last several decades, communities around the region adopted plans for job and housing growth that emphasize making the most of existing downtowns, main streets and employment areas. Based on those existing plans and estimates of what is likely to be developed in the next twenty years, this analysis finds that the region can accommodate new housing at the low, middle or high ends of the growth forecast range.

This analysis should not be understood as prescribing a future for the region. It remains up to policymakers to decide whether these projected outcomes are desirable and, if not, what plans and investments are needed to achieve a different outcome that matches the public's preferences, values and funding priorities, as well as state laws governing growth management.

3 These tables reflect two necessary corrections identified by Metro staff in September 2014. First, in one step of the July 2014 draft report's calculations for housing demand, household data for the entire seven-county metropolitan area were used instead of data limited to the area within the Metro urban growth boundary. As a result the July draft report overestimated demand for single-family housing within the urban growth boundary. A second correction related to lands added to the urban growth boundary by the Oregon Legislature in March 2014 under House Bill 4078. At the request of the city of Forest Grove, this revised report counts lands added near Forest Grove as industrial, rather than residential. This reduces regional capacity for housing, but increases the regional surplus of industrial land.

Policy considerations

PROVIDING HOUSING OPPORTUNITIES

As policymakers consider their options for responding to housing needs, there are considerations to keep in mind.

- If policymakers decide that a urban growth boundary expansion is needed to provide room for housing, where should that expansion occur? Metro is aware of two cities in the region that are currently interested in UGB expansions for housing – Sherwood and Wilsonville. Both cities had residential land added to the UGB in 2002 that they have not yet annexed. Sherwood requires voter-approved annexation and voters have twice rejected annexing the area. What is a reasonable time frame for seeing results in past and future UGB expansion areas?
- Given that the region has ample growth capacity for multifamily housing but a more finite supply of single-family growth capacity, should policymakers consider ways to encourage "family-friendly" housing in multifamily and mixed-use zones? To what extent might that address single-family housing needs in this analysis? Are there ways to ensure that housing in downtowns and along main streets remains within reach of families with moderate or low incomes?
- State land use laws and regional policy call for efficient use of any land added to the UGB. However, over the years very little multifamily housing has been built in UGB expansion areas. What is the right mix of housing types in areas added to the UGB in the future and how are they best served?
- How might policymakers balance residential preferences with other concerns such as infrastructure provision, transportation impacts, affordability, and environmental protection?

IMPACT OF MILLENNIALS ON HOUSING

Millennials, those born since 1980, are the biggest age cohort the U.S. has ever had (bigger than the Baby Boomer cohort) and will have a significant influence on the types of housing that are desired in the future. Today, 36 percent of the nation's 18 to 31-year olds are living with their parents.[i] This has variously been attributed to student loan debt, high unemployment or fear of losing a job, and stricter mortgage lending standards. Builders have responded by reducing their housing production and focusing on apartment construction. What will these trends mean for home ownership, housing type, and location choices in the longer term?

Policy considerations

INVESTING IN JOB CREATION

Metro has been actively engaged in the question of regional investment priorities since the release of the 2008 Regional Infrastructure Analysis and consequential discussion with regional community and business leaders through the Community Investment Initiative. From these efforts, Metro established the Regional Infrastructure Supporting our Economy (RISE) team to deliver regionally significant projects and new infrastructure investment to enhance the local and regional economy. Are there areas where RISE should focus its attention to ensure the region can generate job growth?

DOES THE REGION NEED MORE LAND FOR INDUSTRIAL JOB GROWTH?

Industrial employment includes a wide range of jobs like high tech manufacturers, truck drivers, and metal workers. Since it is common to find commercial jobs (offices, stores, restaurant, etc.) in industrial zones, this analysis shifts a portion of the overall industrial redevelopment supply into the commercial category.

Table 4 summarizes regional needs for general industrial employment growth, expressed in acres.[4] Additional detail about this analysis can be found in Appendix 6. The need for large industrial sites (sites with over 25 buildable acres) is described separately. At mid-point in the forecast range, there is no regional need for additional land for general industrial employment uses. At the high end of the forecast range, there is a deficit. However, there are limited areas in urban reserves that may eventually be suitable for industrial uses.

General industrial employment *(acres)*

	Buildable land inventory	Market-adjusted supply	Demand	Surplus/ need
Low growth forecast	7,300	6,000	1,200	+4,800
Middle *(baseline)* growth forecast		5,200	3,800	+1,400
High growth forecast		5,200	6,500	-1,300

Table 4 Metro UGB general industrial acreage needs 2015 to 2035[4]

Note: reflecting real market dynamics where commercial uses locate in industrial zones, the market adjustment shifts some of the region's industrial redevelopment supply into the commercial land supply. The amount varies by demand forecast.

Case study

TROUTDALE REYNOLDS INDUSTRIAL PARK

Located between the Columbia and Sandy rivers and bordered by the Troutdale Airport and Marine Drive, this 700-acre superfund site is being redeveloped with a mix of industrial uses, natural areas and utility and trail access. The Port of Portland is working closely with local, regional and state jurisdictions to redevelop this former aluminum plant brownfield site and return it to productive industrial use with a traded-sector job focus. The Port has invested over $37 million in the acquisition and redevelopment of the site. Today, a portion of the site is home to FedEx Ground's regional distribution center. Another $48 million in investment is needed to make the remainder of the site ready to market to industrial employers. At full build-out, this industrial development is projected to result in 3,500 direct jobs, $410 million in personal income and $41 million in state and local taxes annually (all jobs).

4 This table reflects a necessary correction identified by Metro staff in September 2014. The correction related to lands added to the urban growth boundary by the Oregon Legislature in March 2014 under House Bill 4078. At the request of the city of Forest Grove, this revised report counts lands added near Forest Grove as industrial, rather than residential with a small amount of commercial.

HOW SHOULD THE REGION PRIORITIZE INVESTMENTS IN LARGE INDUSTRIAL SITE READINESS?

The region's economic development strategy focuses on several sectors with anchor firms that sometimes use large industrial sites (over 25 buildable acres). These firms are important because they often pay higher-than-average wages, export goods outside the region (bringing wealth back), produce spin off firms, and induce other economic activity in the region. However, forecasting the recruitment of new firms or growth of existing firms that use large industrial sites is challenging since these events involve the unique decisions of individual firms. To produce an analysis that is as objective as possible, the estimate of future demand for large industrial sites is based on the employment forecast. That assessment and its caveats are described in Appendix 7.

The analysis finds that there may be demand for eight to 34 large industrial sites between 2015 and 2035. There are currently 50 large vacant industrial sites inside the UGB that are not being held for future expansion by existing firms.[5] This does not include sites added to the UGB in 2014 under HB 4078. To exhaust this supply of sites by 2035, the region would need to attract five major industrial firms every two years. In addition to this inventory of 50 sites, there are 24 sites inside the UGB that are being held by existing firms for future expansion (growth of existing firms is implicit in the demand forecast). Given this total supply of 74 large industrial sites and the fact that there are only two areas in urban reserves (near Boring and Tualatin) that may be suitable for eventual industrial use, policymakers can consider whether to focus on land supply or site readiness.

There are a limited number of areas in urban reserves that may be suitable for eventual industrial use. Therefore, this demand analysis may be more useful for informing the level of effort that the region may wish to apply to making its existing large industrial sites development-ready. Existing sites typically require actions such as infrastructure provision, wetland mitigation, site assembly, brownfield cleanup, annexation by cities, and planning to make sites development-ready. Many of these same development-readiness challenges exist in the two urban reserve areas that may eventually be suitable for industrial use. Metro and several public and private sector partners continue to work to understand the actions and investments that are needed to make more of the region's large industrial sites development-ready.

Policy considerations

THE PORTLAND HARBOR

The harbor is a unique environmental, recreational and economic asset that cannot be replaced elsewhere in the Portland region. For more than a century, the harbor has played a critical role in the history of trade and manufacturing in our region. Today, the harbor needs to be cleaned up to continue providing benefits. What is the appropriate balance between environmental and economic goals? What investments and policies can advance those goals?

5 This inventory is preliminary as of June 16, 2014, and will be confirmed by Metro and its partners before Metro Council consideration of the final UGR. This work is being conducted by Mackenzie for an update of the 2012 Regional Industrial Site Readiness project. However, the inventory is not expected to change enough to result in a different conclusion regarding there being no regional need for additional UGB expansion.

Policy considerations

KEEPING SHOPPING AND SERVICES CLOSE BY

It makes sense to locate commercial uses close to where people live. If the Metro Council chooses to plan for a high growth scenario, are there places where it makes sense to expand the UGB for a mix of residential and commercial uses?

DOES THE REGION NEED MORE LAND FOR COMMERCIAL JOB GROWTH?

The commercial employment category includes a diverse mix of jobs such as teachers, restaurant workers, lawyers, doctors and nurses, retail sales people, and government workers. Generally, these are population-serving jobs that are located close to where people live. Table 5 summarizes regional needs for commercial employment growth, expressed in acres.[6] Additional detail about this analysis can be found in Appendix 6. At mid-point in the forecast range, there is no regional need for additional land for commercial employment uses. At the high end of the forecast range, there is a deficit. However, it may not be desirable to locate commercial uses on the urban edge unless those uses are integrated with residential development.

Commercial employment *(acres)*

	Buildable land inventory	Market-adjusted supply	Demand	Surplus/ need
Low growth forecast	4,200	4,100	1,400	+2,700
Middle *(baseline)* growth forecast		4,400	3,600	+800
High growth forecast		5,000	5,700	-700

Table 5 Metro UGB commercial acreage needs 2015 to 2035[6]

Note: reflecting real market dynamics where commercial uses locate in industrial zones, the market adjustment shifts some of the region's industrial redevelopment supply into the commercial land supply. The amount varies by demand forecast.

6 This table reflects a necessary correction identified by Metro staff in September 2014. The correction related to lands added to the urban growth boundary by the Oregon Legislature in March 2014 under House Bill 4078. At the request of the city of Forest Grove, this revised report counts lands added near Forest Grove as industrial, rather than residential with a small amount of commercial. Making this correction reduces the region's commercial buildable land inventory by 100 acres.

Conclusion

The 2014 urban growth report is more than an accounting of available acres and forecast projections. It provides information about development trends, highlights challenges and opportunities, and encourages policymakers to discuss how we can work together as a region to help communities achieve their visions. This region has seen tremendous change and progress over the last 20 years and we know change will continue. Our shared challenge is to guide development in a responsible and cost-effective manner so that we preserve and enhance the quality of life and ensure that the benefits and costs of growth and change are distributed equitably across the region.

LOCAL LEADERSHIP

Examples of strong partnerships abound already. At the local level, cities and counties are working closely with the private sector to bring new vibrancy to downtowns, more jobs to employment areas, and to provide existing and new neighborhoods with safe and convenient transportation options. Residential and employment areas as varied as Beaverton's Creekside District, Portland's South Waterfront, Hillsboro's AmberGlen, Wilsonville's Villebois, the Gresham Vista Business Park and many others, both large and small, are pointing the way to our region's future.

METRO'S ROLE

At the regional level, Metro supports community work with a variety of financial and staff resources. The Community Planning and Development Grant program has funded over $14 million in local project work to support development readiness. The RISE (Regional Infrastructure Supporting our Economy) program is designed to deliver regionally significant projects and spur infrastructure investment. The Transit-Oriented Development Program provides developers with financial incentives that enhance the economic feasibility of higher density, mixed-used projects served by transit. Corridor projects such as the Southwest Corridor and East Metro Connections Plan are bringing together Metro, local jurisdictions, educational institutions, residents, businesses and others to develop comprehensive land use and transportation plans for individual areas that will support local community and economic development goals.

INVESTING IN OUR COMMUNITIES

These are just a few examples of the kind of work that's happening all across the region. While the Metro Council's growth management decision must address the question of whether to adjust the region's urban growth boundary, the more difficult questions center on how to find the resources needed to develop existing land within our communities and new land in urban growth boundary expansion areas in a way that meets community and regional goals. Many of these questions and policy considerations are highlighted throughout this urban growth report to support policy discussions in the 2015 growth management decision and beyond.

Next steps

JULY THROUGH DECEMBER 2014 The urban growth report helps inform policy discussions for the Metro Policy Advisory Committee (MPAC) and Metro Council.

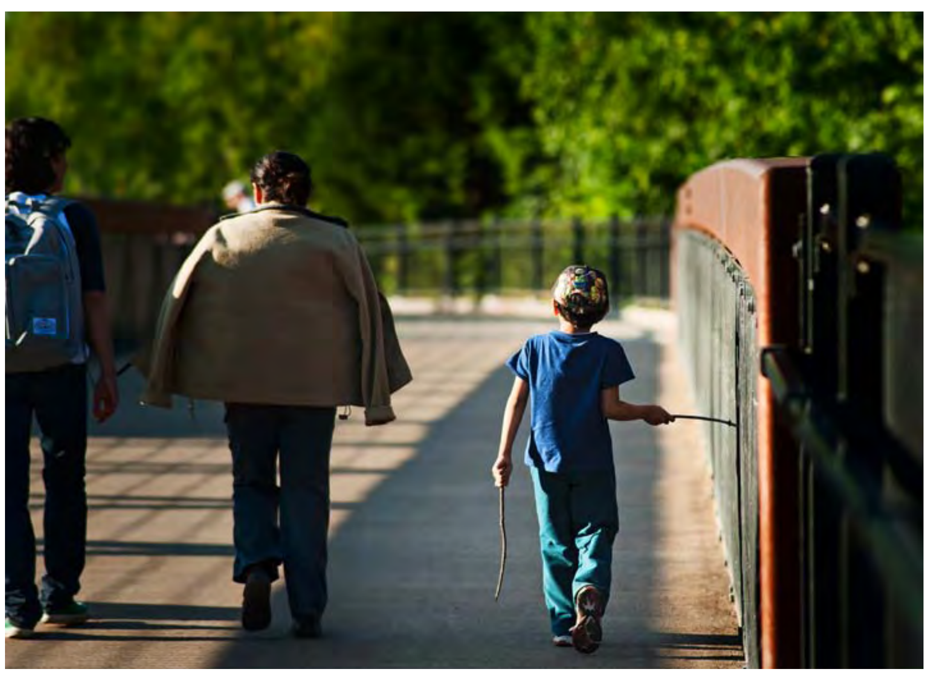
DECEMBER 2014 The Metro Council will consider a final urban growth report that will serve as the basis for its growth management decision in 2015. The Metro Policy Advisory Committee will be asked to advise the council on whether the urban growth report provides a reasonable basis for its subsequent growth management decision.

JULY 2014 – MAY 2015 Local and regional governments will continue to implement policies and investments to create and enhance great communities while accommodating anticipated growth.

MAY 2015 Local jurisdictions interested in urban growth boundary expansions in urban reserves must complete concept plans for consideration by MPAC and the Metro Council.

SEPTEMBER 2015 Metro's chief operating officer makes a recommendation for the Metro Council's growth management decision that becomes the basis for MPAC and council discussion during fall 2015. The recommendation will take into account the final urban growth report, assessments of urban reserve areas, actions that have been taken at the regional or local level – such as measures that lead to more efficient land use and adopted concept plans for urban reserves – and other new information that may influence our understanding of future growth in the region.

BY THE END OF 2015 If any additional 20-year capacity need remains, the Metro Council will consider UGB expansions into designated urban reserves. The Metro Policy Advisory Committee will be asked to advise the council on the growth management decision.



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iv Pew Research Center, A Rising Share of Young Adults Live in Their Parent's Home, August 1, 2013, accessed online 5/20/14 at http://www.pewsocialtrends.org/files/2013/07/SDT-millennials-living-with-parents-07-2013.pdf

ACKNOWLEDGMENTS

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THE FOLLOWING PEOPLE GRACIOUSLY LENT THEIR EXPERTISE TO INFORM THIS REPORT

2014 Urban Growth Report: buildable land inventory technical working group

The following people advised Metro staff on the methods used for identifying the region's buildable land inventory. Additional review of the preliminary inventory was provided by numerous city and county staff.

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Brian Hanes, Washington County
Erin Wardell, Washington County
Colin Cooper, Hillsboro
Ali Turiel, Hillboro
Emily Tritsch, Hillsboro
Ken Rencher, Beaverton
Mike Rizzitiello, Beaverton
Larry Conrad, Clackamas County
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Chris Neamtzu, Wilsonville
Chuck Beasley, Multnomah County
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2014 Urban Growth Report: residential supply range technical working group

This group advised Metro staff on how much of the residential buildable land inventory's redevelopment supply may be developable in the 20-year time horizon.

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Eric Hovee, E.D. Hovee and Associates

2014 Urban Growth Report: employment land technical working group

This group advised Metro staff on how various employment sectors use building space (square feet per employee and floor-area ratios).

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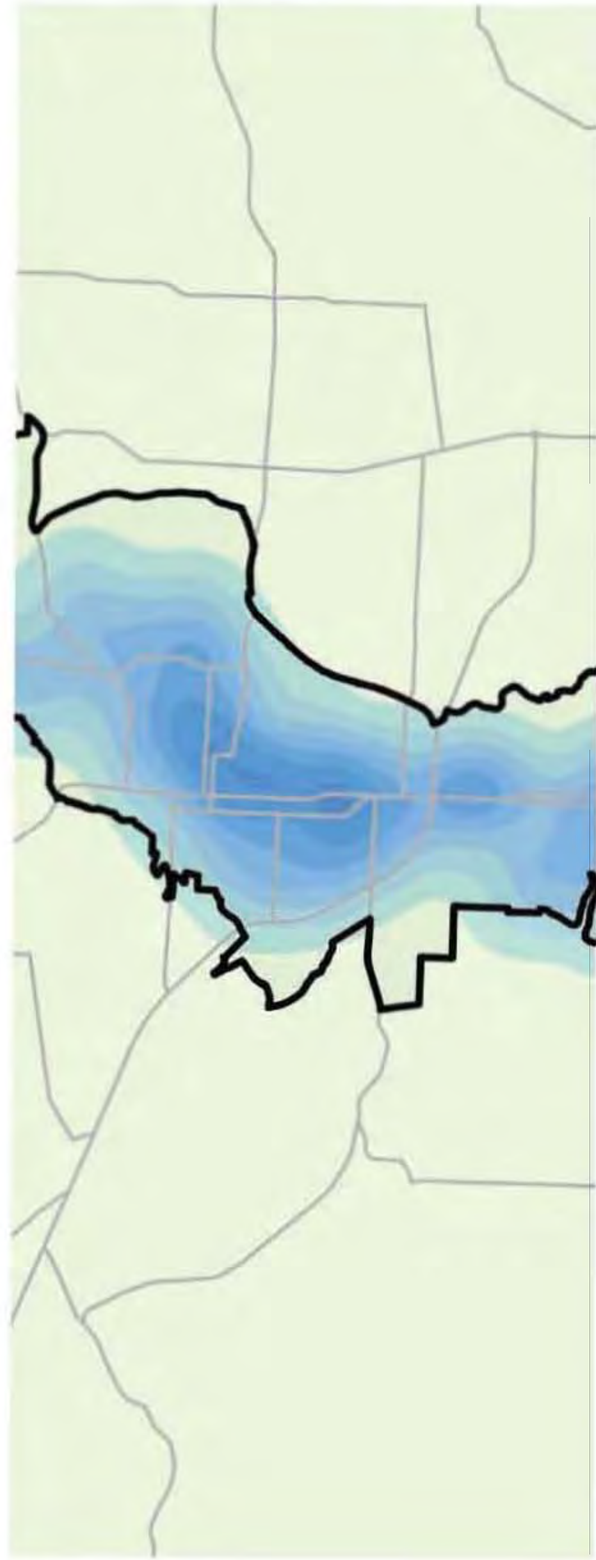
Steve Storm, NW Natural



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REGIONAL INDUSTRIAL SITE READINESS

2014 Inventory Update

Submitted
September 2014

Project Number
2110160.03

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REGIONAL INDUSTRIAL SITE READINESS – 2014 Inventory Update

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EXECUTIVE SUMMARY

This report is an update to the *2011 Regional Industrial Site Readiness Project* of large (25+ acres) industrial sites within the Portland metropolitan area Urban Growth Boundary (UGB) and select urban reserves[1]. The project is a partnership of Business Oregon, Metro, NAIOP - Commercial Real Estate Development Association Oregon Chapter, Oregon Department of Land Conservation and Development, Port of Portland, and the Portland Business Alliance, with cooperation from local governments and private property owners. This update is intended to inform local, regional, and state efforts to ensure an adequate supply of development-ready large industrial sites for traded-sector job creation.

Portland-Metro's Traded Sector, a 2012 Value of Jobs Report issued by Portland Business Alliance, found that on average a traded-sector worker in the Portland metropolitan area earns 42% more than a local-sector worker in the Portland metropolitan region. Promoting traded-sector job creation also spurs the local economy with a multiplier of 2.5 local-sector jobs created for each high-skilled traded-sector job. The production of traded-sector goods (i.e., manufacturing) remains a backbone of Portland metropolitan area's employment. Manufacturing jobs provide higher wages and better benefits than non-manufacturing jobs, particularly for those workers without a high school or college degree. The availability of large and market-ready industrial sites is critical to expanding and attracting traded-sector businesses and growing middle-income jobs key to a prosperous region.

This update intends to:

1. inventory and track changes in the region's large lot industrial site supply;
2. analyze movement of sites from varying states of site readiness;
3. inform policy makers on activity, such as policy changes or infrastructure investments, that have increased the supply and/or readiness of development-ready sites; and
4. support policy and investment decisions required to ensure an adequate supply of development-ready large industrial sites to support economic growth.

The development-readiness tiers used in this inventory are based on those established during the 2011 project:

Tier 1: Development-ready within 180 days of application submittal (i.e., projects can receive all necessary permits; sites can be served with infrastructure and zoned and annexed into the city within this timeframe).

Tier 2: Likely to require 7-30 months to become development-ready.

Tier 3: Likely to require over 30 months to become development-ready.

ACTIONS THAT MADE SITES MORE DEVELOPMENT-READY	
Local and state legislative actions[2]	2
Changes in property owner willingness to transact	2
Environmental constraint mitigation	2
Infrastructure investments	5

Tier 1 sites are the only sites generally considered recruitment-ready for businesses expanding or locating in the Portland region. In a globally competitive environment, businesses increasingly require compressed timelines for

[1] Although this inventory does not include sites within rural areas of these three counties that are outside the UGB and selected urban reserves, these sites are important to the region's economic prosperity.

[2] Legislative actions include Urban Growth Boundary (UGB) expansion, annexation, zoning, and concept planning.

decision making and development. While not considered marketable for most recruitments, Tier 2 could be feasible for expansions of existing businesses and for speculative development for investors. Tier 3 sites are viewed as being non-competitive in the market, and are therefore unavailable for business expansion and recruitment without significant investments, changes in regulatory compliance, or land price discounted by property owners.

Findings

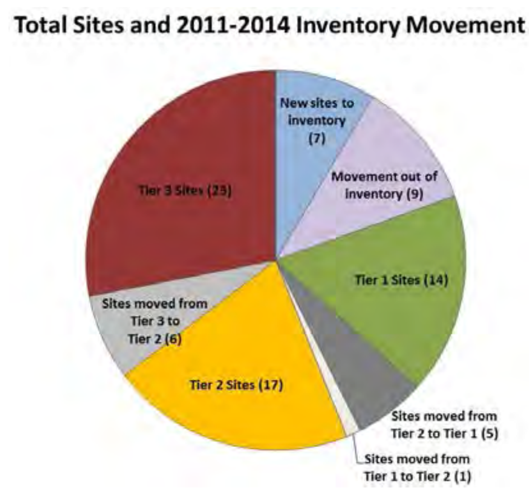
Of the 54 sites in the 2014 inventory:

- There are 14 Tier 1 sites; 17 Tier 2 sites; and 23 Tier 3 sites.
- Seven new sites were ***added*** to the inventory since 2011.
- Nine sites were ***removed*** from the inventory since 2011:

ACTIVITY RESULTING IN INVENTORY REMOVAL	
User designated[3]:	1
Program changes[4]:	2
Construction and development:	3
Local and state legislative actions:	3
Total:	**9**

  - Three of these sites are currently being developed and projected to result in $38 million in investments and 416 new jobs when construction is complete[5]; one of the sites is being used as a temporary parking lot[6] for Intel's Ronler Acres Campus expansion.
  - Since this June 2014 inventory was completed, three additional Tier 1 sites have been absorbed in the market[7].

- Five sites moved up from Tier 2 to Tier 1.
- Six sites moved up from Tier 3 to Tier 2.
- Large industrial sites face multiple development constraints, including: required state and local legislative actions[8], inadequate infrastructure and transportation[9], land assembly needs, natural resources mitigation, brownfield remediation, and property owners not willing to transact.



3 User designated sites are sites owned and held for future expansion of existing regional firms and not available to the general market.

4 Current property owners have designated these sites to meet long-term operational needs. As a result, these sites are no longer available to the general market.

5 **Site 11:** Portland International Airport in Portland has two buildings under construction totaling 491,200 square feet with a $28.5 million investment and 141 projected distribution and logistics jobs available in late 2014 (Port of Portland). **Site 40:** Pacific Realty in Tualatin has two buildings under construction totaling 100,000 square feet with a $9.5 million investment and 275 projected distribution and logistics jobs available in 2015 (PacTrust). **Site 44:** Intel Corporation in Hillsboro was previously used as a staging area and is now a temporary parking lot for the D1X and D2X fabrication plants at the Intel Ronler Acres Campus with investment of $1 billion (Intel).

6 Intel received land use approval for a temporary parking lot until 2023 at which point the property may be redeveloped.

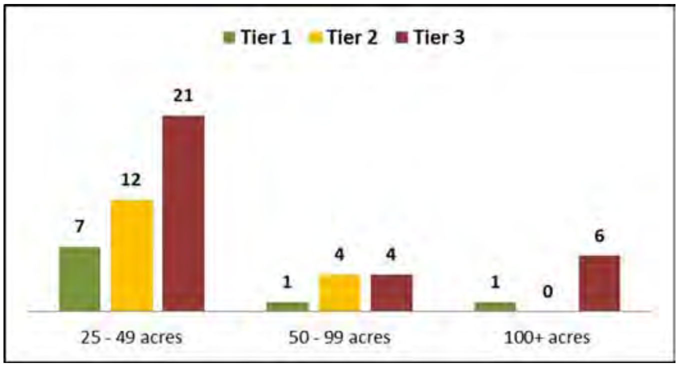
7 **Site 13:** Specht Properties in Portland; **Site 46:** Development Services of America (Westmark site) in Hillsboro; **Site 114**: Colwood Ltd Partnership in Portland.

8 Local and state legislative actions include UGB expansion, annexation, zoning, and concept planning.

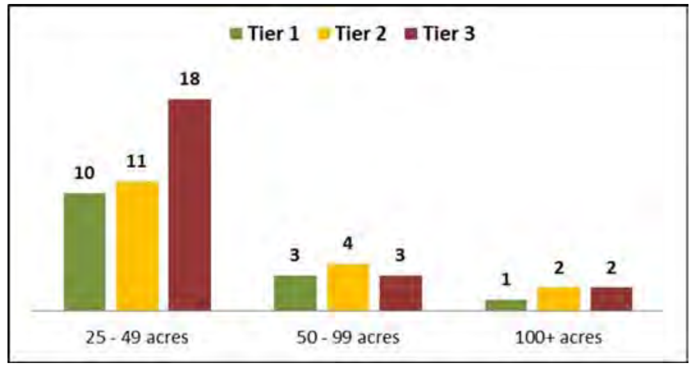
9 Infrastructure includes water, sewer, and stormwater utilities.

The following charts and tables compare site net developable acreage changes between the 2011 and 2014 inventories.

2011 Inventory: 56 sites



2014 Inventory: 54 sites



	2011 Inventory	2014 Inventory
Tier 1	9	14
Tier 2	16	17
Tier 3	31	23
Total	**56 sites**	**54 sites**

	2011 Inventory	2014 Inventory
25-49 acres	**40**	**39**
50-99 acres	**9**	**10**
100+ acres	**7**	**5**
Total	**56 sites**	**54 sites**

The increase in Tier 1 sites in the 2014 inventory is a result of the addition of three new sites to the inventory[10] and five sites upgraded from Tier 2[11], offset by the market absorption of three Tier 1 sites. Of the 14 Tier sites, only seven have broad market appeal.

Of the 11 sites that moved up a tier, seven sites required investment in infrastructure and mitigation.

- Two sites moved up a tier due to mitigation of environmental constraints.[12]
- Five sites received transportation/infrastructure investments, totaling approximately $39.5 million.[13]

Four of the sites which moved up a tier were able to do so without significant investment in infrastructure.

- Two sites had a change in the property owner’s willingness to transact and were upgraded to Tier 2.[14]
- Two sites were taken out of urban reserves and brought into the UGB by House Bill 4078 in 2014.[15]

[10] **Site 111:** Weston Investment – an aggregated site; **Site 113**: Henningsen Cold Storage – increased in site acreage due to decision to vacate dedicated right-of-way and building demolition for future development; and **Site 114:** Colwood Ltd Partnership – open space rezoned to industrial.

[11] **Site 13:** Specht Propertlines Inc.; **Site 22:** Port of Portland – GVBP West; **Site 29:** Clackamas County Development Agency; **Site 50:** Shute North; **Site 52:** Shute South.

[12] **Site 13:** Specht Properties and **Site 29:** Clackamas County Development Agency.

[13] **Sites 18 and 19:** Troutdale Reynolds Industrial Park Phase 2 **-** The Port has expended $2.5M in planning and design to permit the infrastructure for Phase 2. $8 million in regional transportation funding was approved for the local roads, along with a transfer of $6 million in funding from the State-funded Troutdale interchange project and $1.1 million from the City of Troutdale.; **Site 29:** Clackamas County Development Agency - $1.1 million in State Immediate Opportunity Fund and Clackamas County funding was used to improve local road access to the site. An additional $1.8 million in County funds paid for extension of 120th Avenue; **Sites 50 and 52:** Shute Road North and South - $8 million in regional transportation funding and $10 million transfer of I-26/Brookwood interchange savings was used to pay for the construction of nearby local road improvements. The City of Hillsboro contributed $1 million dollars for water infrastructure and planning for sewer line pump station and extension.

[14] **Site 23:** Mt. Hood Community College and **Site 47:** Cranford.

[15] **Site 101:** Vanrose Farms and **Site 104:** Meek Subarea.

Conclusions

- The Portland region's supply of large industrial sites over 25 net developable acres has decreased since 2011.
- There have been positive impacts in site readiness from investments in infrastructure, mitigation and local and state legislative actions. Movement between tiers is largely due to infrastructure investments, and environmental constraint mitigation (7 sites).
- Supply continues to be most limited for larger sites of 50 acres or more.
  - There is only one 100-plus acre Tier 1 site in the region. Larger sites are more complex and take patience to acquire and develop.
- Sites with multiple property owners require aggregation. This is a key issue to supplying larger sites to the market affecting a third of the Tier 2 and Tier 3 sites in the inventory (13 sites).
- There are multiple market-readiness site constraints for other sites in the pipeline.
- Over half of the Tier 2 and Tier 3 sites require local and state legislative actions such as annexation zoning, completion of concept planning, or addition to the urban growth boundary (23 sites).
- Between 40% and 60% of Tier 2 and Tier 3 sites have transportation, infrastructure, and/or environmental mitigation constraints (17-25 sites).
- While brownfield redevelopment affects only six large industrial sites, three industrial sites are located in the Portland Harbor Superfund site which will add significant costs, time, and brownfield redevelopment challenges and require coordinated strategies.
- While investments in infrastructure, changes in ownership willingness to transact, and legislative actions have improved the quality of sites in the inventory, with 11 sites moving closer to market readiness; site readiness is not occurring at a pace sufficient to keep up with demand.[16]

As the economy continues to recover and demand increases due to business growth and investment, additional strategies to increase the continued supply of land will be needed. In order to provide the required land supply to meet projected 2035 population and employment growth within the Metro UGB[17], create middle income jobs to address income disparity, and achieve a sustainable tax base critical to public services[18] , state and regional policymakers must work from an accurate and practical employment land inventory and prioritize policy actions and investments to address industrial site readiness, aggregation, infrastructure, environmental constraint mitigation, legislative actions, and industrial brownfield identification and mitigation. Regular updates to the inventory support the region's traded-sector prosperity and job creation efforts allow tracking of progress in efforts to maintain a supply of sites and help target investments and policy decisions to ensure an adequate supply of development-ready industrial sites. With reduced federal funds, the region will need to be more strategic about investments required to move sites to market ready sites to support these goals.

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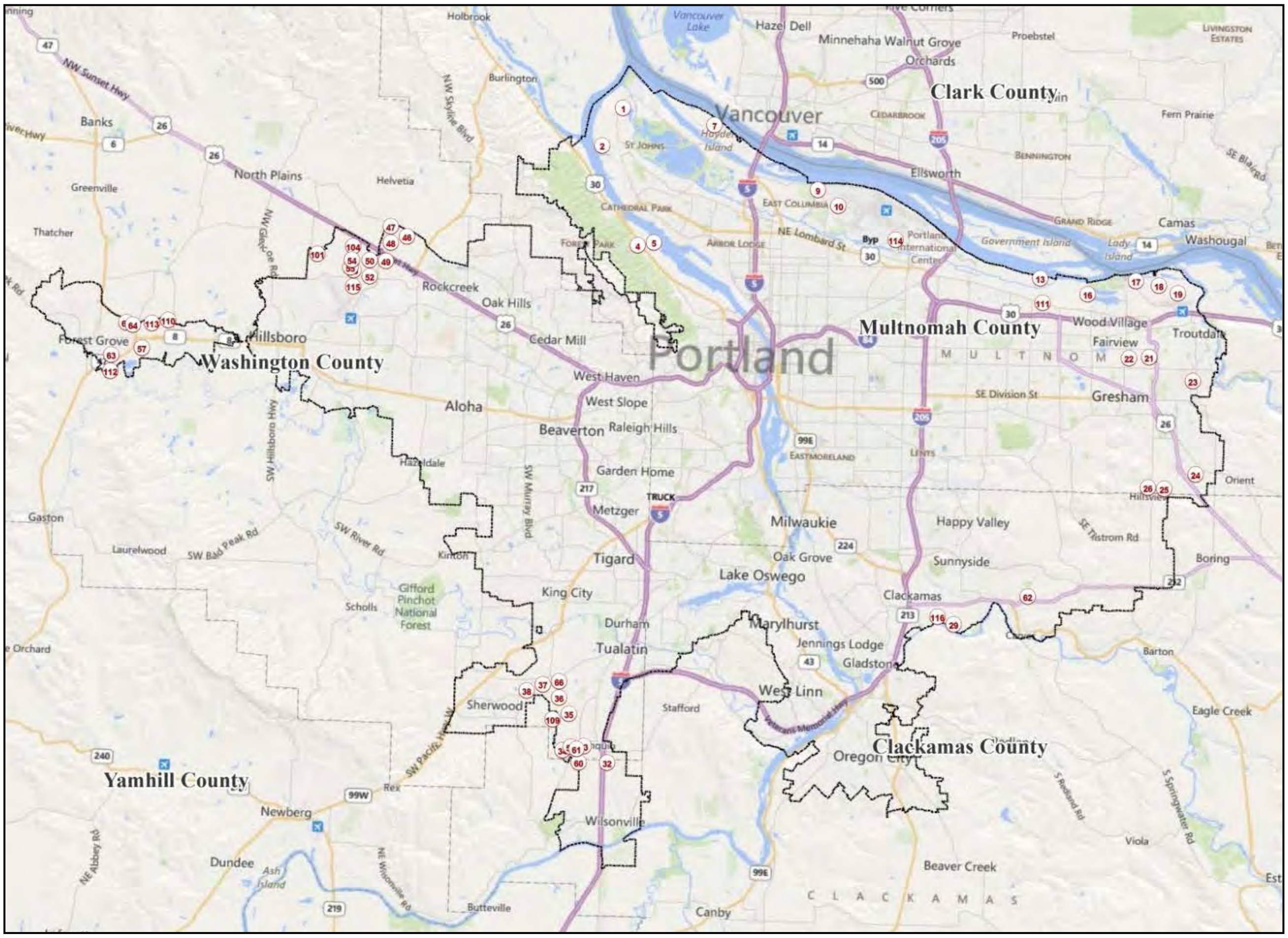
[16] The inventory shows an overall decrease in the total number acres and total number of sites, and a 26% decrease in Tier 3 sites over the two and a half year period.

[17] The draft *2014 Metro Urban Growth Report* forecasts 85,000 to 440,000 additional jobs and 300,000 to 485,000 additional people inside the Metro urban growth boundary by the year 2035.

[18] State personal income taxes and local property taxes.

Regional Map of Tier 1, 2, and 3 Sites



Note: Additional maps are available in Appendix B of this report. **Source: Mackenzie**

PROJECT SUMMARY

Project Purpose

The *2011-12 Regional Industrial Site Readiness Project* assessed the Portland region's supply of development-ready large industrial sites, a critical part of a strategy to retain and attract traded-sector jobs. *Portland-Metro's Traded Sector*, a 2012 Value of Jobs Report issued by Portland Business Alliance, found that on average a traded-sector worker in the Portland metropolitan area earns 42% more than a local-sector worker in the Portland metropolitan region. In an income tax dependent state such as Oregon, these high wage traded-sector jobs generate more revenue for critical services like schools, health care, and social services than local-sector jobs. Traded-sector jobs have a multiplier effect throughout the economy, with an additional 2.5 local-sector jobs created for each traded-sector job. Manufacturing is the backbone of the Portland metropolitan area's traded-sector employment. Manufacturing jobs provide employment opportunities for those without a high school or college degree. The availability of market-ready industrial lands is critical for growing a prosperous traded-sector economy and middle-income jobs.

Because the Portland region must compete with other metropolitan areas for these traded-sector jobs, it must have an adequate inventory of development-ready large industrial sites for expanding and attracting companies. This report is an update to the 2011 inventory which described the supply and market-readiness of large (25 acres and larger) industrial sites in the Portland metropolitan region[19]. For purposes of this study, only vacant, industrially zoned or planned lands within the Portland metropolitan Urban Growth Boundary (UGB) and select Urban Reserves were analyzed. The 2014 inventory utilized the same methodology that was developed during the 2011-2012 Project.

The original project was conceived partly in response to Metro's *2009 Urban Growth Report*, which identified a shortage of large industrial sites in the region and the need to replenish large industrial sites as they are developed. The original project report was produced by Mackenzie in partnership with Business Oregon, Metro, NAIOP - Commercial Real Estate Development Association Oregon Chapter, Port of Portland, and the Portland Business Alliance whose representatives served as the Project Management Team (PMT).

The 2011 inventory created in Phase 1 of this *Regional Industrial Site Readiness Project* provided a community-wide understanding of the supply of vacant large industrial lands, the time and investment needed to get land development ready, and the severity of development constraints. While the 2011 report and this update are limited in scope to industrial lands within the Metro UGB and urban reserves, several communities have replicated the work for other locations, most notably Clackamas County's county-wide work in 2013-14[20].

Phase 2 of the 2011-12 project analyzed the development readiness of 12 sites, identifying a development scenario, constraints to development, costs for on- and off-site developments, and economic benefits derived from such development. This analysis highlighted the significant economic benefit that would result from development, with a significant share of benefit accruing to the State through personal income taxes. The findings supported the passage of Senate Bills 246 and 253 in 2013, designed to provide State financial assistance for local site readiness and due diligence work.

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[19] The Regional Industrial Site Readiness Project examines vacant, industrially-zoned, or planned lands within the Portland metropolitan area's UGB and selected urban reserves that are suitable for large industrial development by new firms moving to the region, development companies who develop business and employment centers, or support the growth of existing firms. The study identified and documented user-owned sites held for future use, but excluded these from the detailed analysis because these sites were not available to the general marketplace. Rural areas of Clackamas and Washington counties outside the Metro UGB were not included in this analysis.

[20] http://cmap.clackamas.us/ccss/

As with the 2011 inventory, the 2014 inventory update focuses on the quality of land and how ready it is for development versus the quantity of gross acres. The inventory is intended to be maintained and updated on a regular basis to reflect market changes, development, investments, and actions to move sites to market. It will also help to inform continued local and private sector efforts to increase site readiness, legislative actions to fund the site readiness, and due diligence programs, and Metro's *2014 Urban Growth Report* and 2015 Growth Management Decision. The *Urban Growth Report* assesses the region's long-range industrial site inventory and, as such, has a broader perspective than this inventory, which focuses on site-readiness for short- and medium-term job creation opportunities. The common theme of both the Urban Growth Report and this inventory is that the public and private sectors need to work cooperatively to make sites available for private sector job creation.

The inventory update reflects conditions as of June 2014. Seven new sites have become available to the market and nine sites from the 2011 inventory are no longer available to the market. This report summarizes the findings of the 2014 inventory and highlights changes from the October 2011 inventory to show movement within the market and the impact of recent legislative changes.

2014 INVENTORY

Background on the Update

The 2011 inventory identified available land for traded-sector employment expansion and attraction within the Metro UGB. Since the 2011 inventory was completed, there have been many changes to the inventory, including market activity as shown on Table 9. The PMT initiated this inventory update to reflect those changes and provide data for Metro's *2014 Urban Growth Report*. The PMT recommends future inventory updates on a similar cycle.

The 2014 inventory update assessed sites over 25 net developable acres to identify development-ready sites (Tier 1) and sites that need additional work and investment (Tier 2 and Tier 3). The 2014 inventory update did not analyze the size of investments needed to move Tier 2 and Tier 3 sites to development-ready status. Clackamas and Washington counties are undertaking detailed site assessments using the methodology developed in Phase 2 of the *2011-12 Regional Industrial Site Readiness Project*.

The inventory update provides a database of industrial sites to support the region's economic development efforts. The database lays a foundation for the work of local jurisdictions, Greater Portland Inc., Metro, the Port of Portland, and the State, to grow the region's job base through market absorption of Tier 1 sites, make investments in site readiness, and bring Tier 2 and Tier 3 sites to Tier 1 status.

Mackenzie and the PMT evaluated sites using similar criteria and metrics as companies or developers would use, rather than limiting analysis to existing parcels or tax lots. A site in this inventory could be a single owner parcel or multiple adjacent parcels that can be combined into a single site; combined parcels could include adjacent parcels in the same ownership and/or in multiple ownerships. This update is also important because trends and changes can be examined since the previous inventory, not solely the quantity of land. It assesses legislative actions and market changes to understand the transformation of sites. It is anticipated that in future updates of the inventory additional data points will help identify trends that may further inform policymakers.

Tiering Criteria and the Process to Score the Sites

The tiering system utilized in this inventory update was based on development readiness criteria established during the 2011-2012 project. The tiers are based on industry standards and mirror the recruitment/development timeframe used by the State's Industrial Site Certification Process. The tiers are defined as follows.

Tier 1 Sites have over 25 net developable acres and are development-ready, or can be development-ready, within 180 days (six months). It is anticipated that no, or minimal, infrastructure or brownfield remediation is necessary and that due diligence and entitlements could be provided and/or obtained within this time period. A Tier 1 site does not have a use restriction and is currently on the market for sale or lease, or the ownership is willing to transact within 180 days. Sites in this tier would generally qualify for Business Oregon's Industrial Site Certification program.

Tier 2 Sites have over 25 net developable acres and require additional actions that would take between seven to 30 months to be counted as development-ready. The seven to 30 month timeframe is for sites that are less competitive for expansions and recruitment, but may still be of some interest to more patient users/developers. These sites may have deficiency issues with regard to infrastructure or may require brownfield remediation, annexation, and additional local and state legislative actions that are assumed to take more than six months. Additionally, these sites may have a marine or aviation use restriction that limits, but does not eliminate, their market opportunity. These sites are currently on the market for sale or lease, or the property owner is willing to transact. If the property owners' willingness to transact is unknown, the site may still be considered a Tier 2 site. Should the site be in multiple ownerships, an agreement to aggregate within 30 months must be in place.

Tier 3 Sites have over 25 net developable acres and require the most cost and time to deliver a development-ready site. Tier 3 sites include those that require 30 months or more to be development-ready and represent the least competitive sites from an expansion, recruitment, or a speculative development perspective. In addition to the criterion for Tier 2, these sites may or may not be currently for sale or lease, or the owner may or may not be willing to transact. In a small number of cases, sites are in Tier 3 because required information was not available at the time this report was published.

Table 1 below shows the tiering criteria developed and used by the PMT and consultant team to tier the sites.

Table 1: Inventory Tiering Criteria

	25 net developable acres	Use Restriction	Brownfield Remediation	Annexation Required	Sewer, Water, & Storm	System Mobility	Currently for Sale or Lease		Willingness to Transact
Tier 1	Within six (6) months	No	No or Within six (6) months (Score of A)	No	A or B	A or B	Yes	***OR***	Yes
Tier 2	Within 7-30 months	Yes or No	Within 7-30 Months (Score of B)	Yes or No	A, B, or C	A, B, or C	Yes	***OR***	Yes or Unknown
Tier 3	>30 months	Yes or No	>30 months (Score of C)	Yes or No	A, B, or C	A, B, or C	Yes or No	***OR***	Yes or No or Unknown

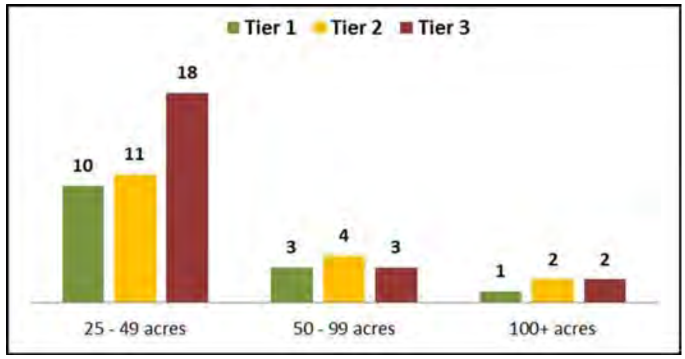
Source: Mackenzie

2014 INVENTORY UPDATE FINDINGS

Development Readiness

Industrial sites in the region are in varying states of readiness, requiring regulatory approvals (development permitting, environmental resource mitigation), local discretionary actions (concept planning, annexation, zoning), infrastructure (sewer, water, transportation), site/property owner aggregation, and brownfield remediation.

Figure 1: Site Distribution Based on Tiers



Source: Mackenzie

The study finds that the region has a limited supply of large industrial land readily available to attract and grow employers needed for the region to prosper, particularly sites of 50 net developable acres or more. Net developable acres are gross acres less wetlands, floodplain, 10%+ slopes, streams, and other development constraints that limit development. Figure 1 represents the findings of the regional inventory as of June 2014.

The study found the following.

14 Tier 1 sites
Available for facility construction within 180 days
There are 14 Tier 1 "market-ready" sites available for development opportunities in the near term, mostly in the 25 to 49 acre range. Tier 1 sites total approximately 650 net developable acres.

17 Tier 2 sites
Available for facility construction between seven and 30 months
Tier 2 mid-term sites require additional investment and policy actions to be market-ready. Of the 17 Tier 2 sites totaling approximately 1,100 net developable acres, four of these sites require property owner assembly.

23 Tier 3 sites
Available for facility construction beyond 30 months
There are multiple challenges to address to bring these 23 Tier 3 sites to market. Investment and actions required to move these sites forward include site aggregation, brownfield remediation, wetland mitigation, transportation/infrastructure improvements, and annexation. Nine of the Tier 3 sites (40%) require property owner assembly. Net developable acres in Tier 3 totals approximately 1,300 acres.

50-plus and 100-plus acre size sites
There is a limited supply of 50-plus and 100-plus acre sites in the Portland region. With respect to 100-plus acre sites, the study found:

- One Tier 1 site: Site 21: Gresham Vista Business Park (owned by Port of Portland)
- Two Tier 2 sites: Site 104: Meek Subarea site and Site 101: Vanrose Farms/Bert & Bernie LLC (Hillsboro)
- Two Tier 3 sites: Site 7: West Hayden Island and Site 10: SW Quad (both owned by the Port of Portland)

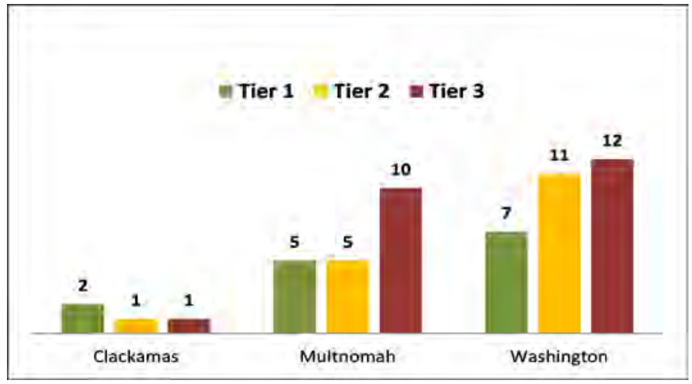
Tier 2 and 3 Development Constraints

There are multiple development constraints impacting the 40 Tier 2 and Tier 3 sites as outlined in the table below. Parcel aggregation is an issue affecting 25% of the sites in the inventory. More than 50% of the Tier 2 and Tier 3 sites require local and state legislative action and 45% of Tier 2 and Tier 3 sites have significant site infrastructure constraints.

Tier 2 and Tier 3 Development Constraints	
Brownfield clean up:	6
Natural Resources:	18
Infrastructure (water, sewer, storm utilities):	17
Transportation:	25
Land Assembly:	13
Local and State Legislative Actions:	23
Willingness to Transact No: Unknown:	 10 6

Note: Most sites may have multiple constraints

Figure 2: Distribution of Sites by Location



Source: Mackenzie

Tier 1, 2, and 3 Site Results

The 2014 update is based on the best available public information available to the consultant as of June 2014. The inventory of industrial sites in the Portland region will change over time; as such, this inventory is a snapshot in time. Changes to this inventory update are based on better information, such as wetland delineations; site surveys; property owner conversations; new properties coming on the market; properties in the inventory coming off the market due to transactions; a change in tier status based on investment or other actions; and other issues, such as an increase in property owner willingness to transact or other user designation.

The inventory update identifies 54 large industrial sites in the Metro UGB and selected urban reserves (Figure 2). Of these 54 sites in the inventory, 14 sites (26%) are Tier 1; 17 sites (31%) are Tier 2; and 23 sites (43%) are Tier 3 sites. Many of the Tier 3 sites have significant barriers to market readiness and may not be able to be aggregated as a site at all. The complete inventory of sites detailing all of the data prepared for each site, their location in the region, and their tiers can be found in Appendix A with regional maps found in Appendix B.

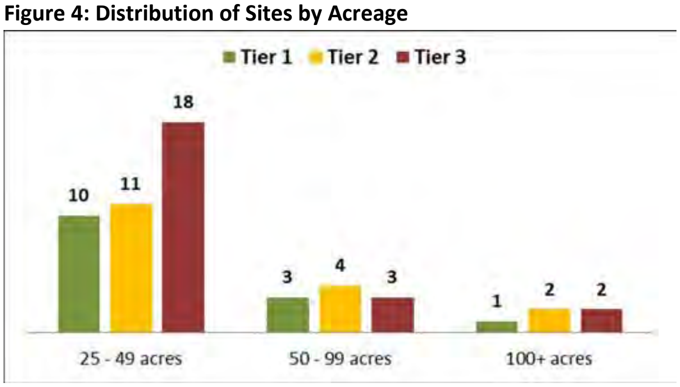
TIER AND SITE DISTRIBUTION BY COUNTY				
Tier/Acres	**Clackamas**	**Multnomah**	**Washington**	**Total**
Absorbed by the Market	**0**	**1**	**2**	**3**
Tier 1	**2**	**5**	**7**	**14**
25-49 acres	2	3	5	10
50-99 acres	0	1	2	3
100+ acres	0	1	0	1

Tier/Acres	Clackamas	Multnomah	Washington	Total
Tier 2	**1**	**5**	**11**	**17**
25-49 acres	1	2	8	11
50-99 acres	0	3	1	4
100+ acres	0	0	2	2
Tier 3	**1**	**10**	**12**	**23**
25-49 acres	1	8	9	18
50-99 acres	0	0	3	3
100+ acres	0	2	0	2
TOTAL	**4**	**20**	**30**	**54**

Tier 1 Sites

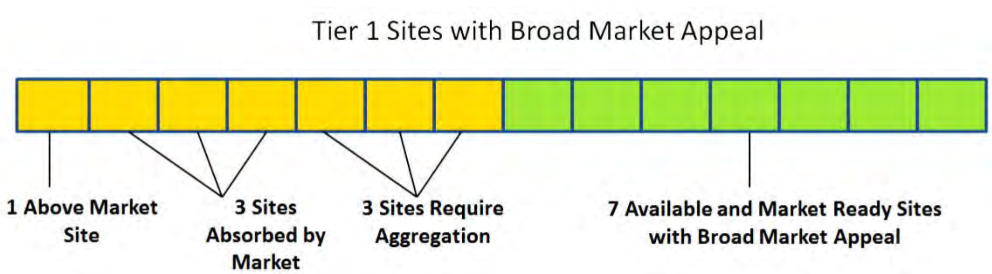
Of the 14 Tier 1 sites, seven are in Washington County, five are in Multnomah County and two are in Clackamas County (Figure 3). The number of larger sites is limited as approximately 70% of the Tier 1 sites are in the 25-49 acre range. There are only three 50-acre sites and one 100-acre site that are Tier 1.

Figure 4: Distribution of Sites by Acreage



Source: Mackenzie

In addition to development-readiness, there are a handful of economic factors that drive the suitability of industrial sites for immediate development. A closer look at the 14 Tier 1 sites (Table 2) reveals that the number of sites attractive to a broad range of potential traded-sector companies is even smaller. Of the 14 Tier 1 sites, there are seven sites that meet standard market requirements. Three sites have multiple owners and a potential user must aggregate these sites themselves. One site is currently for sale at an above market price for industrial development. It is unclear if, or when, the current owner will align the asking price with current industrial market pricing. Three sites that have been absorbed by the market since June 2014[21].



Over 85% of the Tier 1 sites are in Multnomah or Washington County[22]. Because the inventory only includes sites within the Portland metropolitan UGB or select urban reserves, industrial sites located in rural Washington

[21] **Site 13**: Specht Properties in Portland; **Site 46**: Development Services of America (Westmark site) in Hillsboro; **Site 114**: Colwood Ltd Partnership in Portland.

County and Clackamas County, such as Banks, Canby, Sandy, Molalla, and Estacada are not included in this inventory[23]. However, these sites are an important component of the regional economy. Table 3 details the Tier 1 sites.

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[22] Approximately 40% of Multnomah County is within the Metro UGB; 17% of Washington County; and 5% of Clackamas County.

[23] http://cmap.clackamas.us/ccss/

Table 3: Tier 1 Site Summary

Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acreage	Number of Tax lots	Number of Owners	Currently for Sale/Lease	Willing to Transact
13	Specht Properties Inc.	Portland	Multnomah	28.11	26.52	3		S	
21	Port Of Portland GVBP - East	Gresham	Multnomah	115.98	115.01	5		S/L	
22	Port Of Portland GVBP - West	Gresham	Multnomah	87.79	67.84	3		S/L	
29	Clackamas County Development Agency	Clackamas	Clackamas	61.93	40.00	11		S/L	
32	Ralph & Shirley Elligsen	Wilsonville	Clackamas	33.42	30.20	2		S	
46	Development Services Of America (Westmark Site)	Hillsboro	Washington	30.02	30.02	1		S	
48	Dewayne Wafford (Baker/Bindewald Site)	Hillsboro	Washington	46.06	44.58	1		S	
49	Majestic Realty Company	Hillsboro	Washington	75.11	62.75	9		S/L	
50	Shute North (Berger/Moore Trust/Boyles Trust)	Hillsboro	Washington	73.31	55.00	5	3	S	
52	Shute South (Berger Properties/Moore Trust)	Hillsboro	Washington	42.91	42.91	2	2	S	
57	Merix Corporation	Forest Grove	Washington	34.25	29.71	1		S	
111	Weston Investments and CCF Oregon LLC	Gresham	Multnomah	34.99	26.00	2	2	S	
113	Henningsen Cold Storage	Forest Grove	Washington	28.57	26.44	3			YES
114	Colwood LTD Partnership	Portland	Multnomah	47.55	39.42	1		S	

Note: It is assumed that if a property is currently listed for sale or lease, the property owner is willing to transact. **Source: Mackenzie**

Tier 2 Sites

The analysis found 17 Tier 2 sites within the Metro UGB. The bulk of these sites are in Washington or Multnomah County with only one site in Clackamas County. The number of large sites in Tier 2 is limited, with four sites that are between 50-99 acres and two 100-plus acre sites.

The few large sites in Tier 2 face significant challenges to become market-ready, including the need to build infrastructure (roads and sewer), mitigate wetlands, and assemble parcels currently under multiple ownerships. Many of these sites have multiple development constraints that limit their marketability. The inventory update did not identify specific constraints at each site, but the list of potential constraints includes environmental clean-up, infrastructure upgrades, property owner aggregation, annexation, wetland/floodplain fill. Of the 17 Tier 2 sites, four require aggregation and eight require local and state legislative actions, such as UGB expansion, annexation, zoning, and concept planning.

Generally, the constraints to readiness for Tier 2 sites are less extensive than Tier 3 sites, requiring less time and lower costs than the majority of the Tier 3 sites. Tier 2 sites present the best opportunity to focus resources to bring more sites to market. Table 4 details the Tier 2 sites.

Table 4: Tier 2 Site Summary

Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acreage	Number of Tax lots	Number of Owners	Currently for Sale/Lease	Willing to Transact
1	Port of Portland (Rivergate)	Portland	Multnomah	51.44	51.21	4		L	
9	Port of Portland (NE Marine Drive & 33rd Avenue)	Portland	Multnomah	66.74	62.70	1		L	
18	Port of Portland (Trip - Phase 2)	Troutdale	Multnomah	42.67	30.18	3		S/L	
19	Port of Portland (Trip - Phase 2)	Troutdale	Multnomah	80.53	80.34	2		S/L	
23	Mt Hood Community College	Troutdale	Multnomah	38.45	37.40	3			Yes
38	Biles Family LLC	Sherwood	Washington	39.60	30.89	1		S	
47	Julian & Sharon Cranford	Hillsboro	Washington	28.51	27.29	1		S	
54	5305 NW 253RD Avenue LLC	Hillsboro	Washington	38.49	28.59	1			N/A
55	Spokane Humane Society & Spokanimal Care	Hillsboro	Washington	45.49	36.00	1			Yes
56	East Evergreen Site	Hillsboro	Washington	70.74	61.00	9	7	S	Yes
62	Rock Creek Site	Happy Valley	Clackamas	40.83	36.82	5	2	S	Yes
63	Woodburn Industrial Capital	Forest Grove	Washington	26.17	25.01	1		S/L	
66	Kenneth Itel	Tualatin	Washington	46.25	30.25	2			Yes
101	Vanrose Farms and Bert & Bernie LLC	Hillsboro	Washington	271.64	224.83	2	2		Yes
104	Meek Subarea Site	Hillsboro	Washington	268.02	257.42	8	7		Yes
112	Hally Haworth	Forest Grove	Washington	38.19	36.15	2			Yes
115	SolarWorld	Hillsboro	Washington	46.23	46.23	1		S	

Note: It is assumed that if a property is currently listed for sale or lease, the property owner is willing to transact. **Source: Mackenzie**

Tier 3 Sites

The analysis found 23 Tier 3 sites within the Metro UGB and selected urban reserves. While all but one of the Tier 3 sites are inside the UGB or select urban reserve sites, this category of sites has multiple and significant constraints to overcome to get to market-readiness. Similar to the other tiers, the number of larger Tier 3 sites is also limited, with three sites that are between 50-99 acres and two 100-plus acre sites.

Nine of the Tier 3 sites (nearly 40%) require aggregation of parcels in separate ownerships. Ownership ranges from two owners for the Woodfold site in Forest Grove (Site 64) and the Davis Family Trust & Taghon site in Cornelius (Site 110) to up to 16 owners for the Coffee Creek site #1 in Wilsonville (Site 33). Five of these nine sites have more than three ownerships. The more owners involved, the more complex and lengthy the aggregation process.

More than two-thirds (15) of the sites in Tier 3 will require some kind of local or state legislative actions such as UGB expansion, annexation, zoning and concept planning to become development-ready. Examples include sites that are outside the current UGB and West Hayden Island, which is inside the UGB but subject to a lengthy planning and annexation process that is likely to include significant mitigation requirements. If approved for development, the West Hayden Island site is at least seven years away from readiness due to permits, mitigation, and infrastructure requirements. There are also two sites on the edge of the UGB with tax lots that are partially inside the UGB and partially outside of the UGB included in this study. This split of urban and rural land creates a legislative challenge as only lots within the UGB are allowed to develop to urban use and intensity. Development to urban intensities includes a prohibition on partitioning of these lots to a size inconsistent with rural land uses and zoning. For the purpose of this study, only the portions of the tax lots inside the UGB are included as a site. Oregon Department of Land Conservation and Development is currently engaged in a process to fix this legislative issue.

Another issue affecting five Tier 3 sites is brownfield contamination. Three of these sites are located in the City of Portland adjacent to the Willamette River Superfund designation and have significant development issues, risk, and uncertainty.

Three of the Tier 3 sites (15%) are currently operating as active quarries with gross site acreage varying from 26 to 85 to 300 acres. These sites have been mined for decades and as a result are significantly sloped due to excavation.

Providing a market perspective on the quality of sites is a major objective of this analysis. Market-readiness requires first and foremost, a willingness to enter into a transaction by the property owner. However, simply a lack of willingness to transact, or a lack of information of a willingness to transact, was not a reason to exclude a site in the inventory. Of the 23 Tier 3 sites, 16 (nearly 70%) either lack a willingness to transact or the information was unable to be determined as part of this study. Slightly over 20% of the Tier 3 sites (four sites) are currently, or could be, available to the general market, as the property owner is willing to enter into a transaction. Only 13% (three sites) are currently listed for sale on the market. Table 5 provides a complete list of the Tier 3 sites.

Table 5: Tier 3 Site Summary

Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acreage	Number of Tax lots	Number of Owners	Currently for Sale/Lease	Willing to Transact
2	Time Oil Company	Portland	Multnomah	51.10	39.40	7			Yes
4	ESCO Corp	Portland	Multnomah	37.62	29.92	6	3		N/A
5	Atofina Chemicals INC	Portland	Multnomah	59.76	47.25	6			N/A
7	Port of Portland (West Hayden Island)	Portland	Multnomah	472.00	300.00	3			Yes
10	Port of Portland (SW Quad)	Portland	Multnomah	209.69	206.47	5			Yes
16	Michael Cereghino	Gresham	Multnomah	41.63	25.00	5		S	
17	Port of Portland (Trip - Phase 3)	Fairview	Multnomah	34.14	30.00	1		S/L	
24	Jean Johnson	Gresham	Multnomah	37.17	33.82	1			N/A
25	Lester Jonak Jr.	Gresham	Multnomah	34.19	27.07	1			N/A
26	Michael & Ardele Obrist	Gresham	Multnomah	33.51	33.51	2			N/A
33	Coffee Creek Industrial Area - Site 1	Wilsonville	Washington	89.59	84.70	21	16		No
34	Kennedy/Fitzpatrick/ Vanleeuwen	Wilsonville	Washington	52.88	25.50	3			N/A
35	Tonquin Industrial Area	Tualatin	Washington	49.52	34.32	8	7		Yes
36	Tigard Sand & Gravel Site	Tualatin	Washington	301.08	25.00				No
37	Orr Family Farm LLC	Sherwood	Washington	96.26	77.00	1			No
59	Coffee Creek Industrial Area - Site 2	Wilsonville	Washington	45.07	44.49	12	7		No
60	Coffee Creek Industrial Area - Site 3	Wilsonville	Washington	28.82	26.22	10	6		No
61	Coffee Creek Industrial Area - Site 4	Wilsonville	Washington	46.57	42.37	12	8		No
64	Woodfold-Marco MFG Inc. (East Oak Street)	Forest Grove	Washington	27.67	25.06	2	2		No

Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acreage	Number of Tax lots	Number of Owners	Currently for Sale/Lease	Willing to Transact
65	Woodforld-Marco MFG Inc. (West Oak Street)	Forest Grove	Washington	53.66	52.97	5			No
109	Morse Bros. Inc.	Tualatin	Washington	83.68	25.00	7			No
110	Davis Family Trust & Remi Taghon	Cornelius	Washington	49.01	40.21	10	2		Yes/ No
111	Northwest Sand & Gravel Inc.	Unincorporated	Clackamas	26.2	25.10	6	1	S	

Source: Mackenzie

Note: "YES/NO" is for a property with two owners – one willing to transact and one not willing to transact. Additionally, it is assumed that if a property is currently listed for sale or lease, the property owner is willing to transact.

Additional Sites

There are several dozen industrially designated sites that are not included in this inventory update. These sites fall into three categories.

1. The parcel/site is greater than 25 gross acres, but when constraints (environmental or restrictive zoning/overlay) are taken into consideration, the net developable acreage falls below 25 acres. (See Table 6)

2. The parcel/site is owned by a company that is **part of an existing campus/development** and the company has future expansion plans. This vacant land is not currently available to the market for another prospective user. The site is partially vacant but reserved for expansion. (See Table 7)

3. The parcel/site is owned by a company that has **future development plans;** therefore the site is not currently on the market for a prospective user. The site is fully vacant and land banked for new development. (See Table 7)

Although these sites do not appear in the 2014 inventory in this report, they are still an important portion of the region's industrial land supply. Appendix C provides regional maps of these sites.

Sites with Less Than 25 Net Developable Acres

There are 16 parcels and/or sites in this study that have 25 gross acres, but do not have 25 net developable acres. However, these sites are still part of the region's inventory of industrial land as they may be developable for smaller users. These sites are identified in Table 6 below, but are not included in the 2014 inventory because they did not meet the criteria of this study.

Table 6: Parcels or Sites with Less Than 25 Net Developable Acres

Owner	Location	Gross Acreage	Approximate Net Developable Acres	Notes
McCormick & Bassili Investments LLC	Happy Valley (HWY 212 & 162nd)	33.98	7.5	Environmental constraints result in <25 net developable acres – according to Clackamas County
Weaver Russell	Happy Valley (HWY 212 & 162nd)	34.19	3.5	Environmental constraints result in <25 net developable acres – according to Clackamas County
Fazio	Portland (East of NE MLK & Gertz)	34.96	22	Existing drainage ditch bisects site into a 21.5 acre site; net developable acres in largest development parcel is less than 25 acres
Graphic Packaging	North Portland (Marine Drive & Portland)	26.26	2.75	Environmental constraints result in <25 net developable acres
Catellus	Portland (N of Airport and 185th)	31.99	3.5	Environmental constraints result in <25 acres remaining (wetlands and floodplain)
Langer Family	Sherwood (TS Road & Adams)	56.48	< 25	Public utility district overlay on site results in <25 net developable
Orwa Sherwood LLC	Sherwood (T/S Road & Adams)	50.25	6	Bisecting road results in <25 net developable acres
Fred Fields property	Tigard (Hall and Hunziker)	35.6	<25	Environmental constraints result in <25 net developable acres (market/site knowledge)
David Young	Wilsonville (S of Boeckman W of I5)	33.9	0	Significant Resource Overlay Zone environmental constraints – according to City of Wilsonville
Gary Walgraeve	Tualatin (Herman Road & 118th)	54.95	14.5	Environmental constraints result in <25 net developable acres – according to City of Tualatin
Edward Wager	Tualatin (T/S Road & 124th)	32.14	13	Environmental constraints result in <25 net developable acres – according to City of Tualatin
Joe Bernert Tow Inc.	Wilsonville (Wilsonville Road & Boones Ferry)	31.18	13.5	Significant Resource Overlay Zone – according to Wilsonville
Rock Creek aggregate site	Happy Valley (Rock Creek Blvd & SE 172nd Avenue)	25.03	21.04	Slope constraints
Powin Pacific Properties LLC	Tualatin (T/S Road & 115th)	29.47	13.45	Wetlands and stream on site
Port of Portland	Portland (NE 33rd; South of Marine Drive)	28	23	Drainage ditches result in <25 net developable acres
Port of Portland	Portland (South of SW Quad)	67.5	0	Reserved for open space/wetlands mitigation. Land is not greater than 25 net developable acres – according to Port of Portland

Owner	Location	Gross Acreage	Approximate Net Developable Acres	Notes
Port of Portland	Fairview (South of site 17)	100	0	Reserved for open space/wetlands mitigation. Land is not greater than 25 net developable acres – according to Port of Portland
Port of Portland	Troutdale (East of Troutdale Reynolds Industrial Park site 20)	64	0	Reserved for open space/conservation. Land is not greater than 25 net development acres – according to Port of Portland
Xerox (2 parcels)	Wilsonville (East of Interstate5)	95.81	34.1	Remaining 34.1 acres are reserved for future on site environmental mitigation for the Xerox campus and not developable

Source: Mackenzie

User Owned and User Designated Sites

This analysis also excluded land-banked parcels that are owned and held for future expansion by existing regional firms. These parcels are an important part of the regional industrial land inventory, but since they are being held by their current owners for future development, they are not considered to be available to the general market, which is the focus of this study. There are 25 user-owned sites with at a minimum 25 net developable acres that are being held for future development in this study (Table 7). Twelve (12) of these sites are vacant (for future use) with 25 or more net developable acres; and 13 are partially vacant (buildings on site/part of existing campus), but still have a minimum of 25 acres vacant for future expansion.

Table 7: User Owned and User Designated Sites

Owner	Location	Gross Acreage	Vacant Acreage	Vacant: for future use	Partially Vacant: in use	Notes
N Pacific Union Conference Association SDA	Gresham (Foster & Tillstrom)	66.9	66.9	X		Reserved for future use/development
Providence Health	Happy Valley (HWY 212 & 162nd)	49.7	49.7	X		Reserved for future use/development
Intel (Future parking lot)	Hillsboro (Cornell & Cornelius Pass)	47.36	47.36	X		Reserved for future use/development (parking lot)

Owner	Location	Gross Acreage	Vacant Acreage	Vacant: for future use	Partially Vacant: in use	Notes
Legacy Health Services	Hillsboro (Cornell & Cornelius Pass)	28.95	27.3	X		Reserved for future use/development (easement on site)
Intel	Hillsboro (West Union & Cornelius Pass)	72.54	68.4	X		Reserved for future use/development
Port of Portland (PIC WEST)	Portland (NE Alderwood Drive)	69.45	58.96	X		Future relocation site for PDX rental cars
Port of Portland	Troutdale (East of site 17)	34	32.7	X		Vacant; reserved for utility use (substation) – according to Port of Portland
Port of Portland	Hillsboro (NW Evergreen Road)	71.81	67.69	X		Brought into UGB in 2014 with House Bill 4078; reserved for future Hillsboro Airport use (airport restrictions)
Port of Portland	Hillsboro (NW Evergreen Road and 264th)	39.22	34.15	X		Inside Hillsboro Airport fence, and included in FAA Airport Layout Plan; reserved for aviation related development only
Mentor Graphics	Wilsonville (S of Boeckman E of I5)	43.4	43.4	X		Reserved for future use/development - split from main campus by public street; Significant Resource Overlay Zone on site and wetlands
Phight LLC	Tualatin (T/S Road & 118th)	28.8	28.8	X		Reserved for future use/development
BT Property LLC (UPS)	Gresham (NE 185th and NE Portal Way)	51.45	51.45	X		Reserved for future use/development
Clackamas CDA	Clackamas County (I205/82nd)	32.2	32.1		X	Excess land - in use and not available – according to Clackamas County
Great American TVR	Clackamas County (I205/82nd)	49.35	47.5		X	Communication towers and infrastructure on site
State of Oregon (3 parcels)	Clackamas County (I205/Hwy 212)	232	97		X	In use and not available – according to Clackamas County
Nacco Materials Company	Fairview (Marine & Blue Lake Road)	78.7	58.7		X	Excess land; some environmental constraints on site
Microchip Technology (Formally Linde)	Gresham (Glisan & 223rd)	137	75		X	Not available – according to City of Gresham
Mutual Materials	Gresham (Hogan Road)	86.08	56.8		X	Excess land: currently in use

Owner	Location	Gross Acreage	Vacant Acreage	Vacant: for future use	Partially Vacant: in use	Notes
Novellus Systems Inc.	Tualatin (SW Tualatin Road & SW 108th)	58.4	27.46		X	Excess land: currently in use
PGE Portland	Gresham (Powell & E of 182nd)	72.13	62.8		X	Reserved for future use and not available
Genentech (entire campus)	Hillsboro (Evergreen & Brookwood)	75.3	60		X	Reserved for future use and not available
Tokyo Ohka Kogyo	Hillsboro (Evergreen & Brookwood)	38.89	28.5		X	Reserved for future use and not available
Intel (Ronler Acres)	Hillsboro (Shute Road)	111.7	61		X	Reserved for future use and not available
PGE Portland	North Portland (St Helens)	63.1	43.9		X	Excess land currently in use
Cookin (Siltronic)	Portland (St Helens Road)	79.27	38.6		X	Reserved for future use and not available

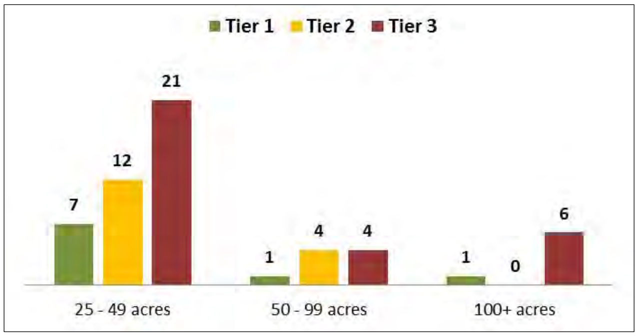
Source: Mackenzie

Changes from 2011 Inventory to 2014 Inventory

Movement In and Out of the Inventory

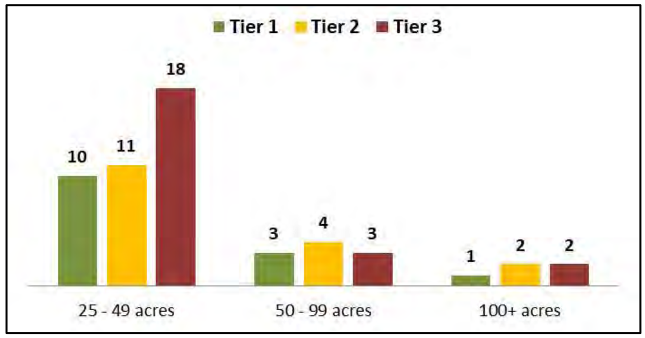
The 2011 inventory included 56 sites, compared to the 2014 inventory of 54 sites. The breakdown among tiers is shown in Figure 5 and 6 below. Nine sites were removed from the inventory, including three sites that are being developed or used for construction staging. Seven sites were added to the inventory. The number of Tier 1 sites has increased by six sites; Tier 2 sites increased by one site; and Tier 3 sites decreased by eight sites. Of the Tier 1 sites, only seven of the sites meet standard development criteria.

Figure 5: 2011 Inventory



Source: Mackenzie

Figure 6: 2014 Inventory



Source: Mackenzie

Movement between Tiers

From 2011 to 2014, there has been significant movement between the tiers. The 2014 update found 11 sites that moved up a tier; five Tier 2 sites became Tier 1 sites and six Tier 3 sites became Tier 2 sites in the 2014 update. The table below shows movement between the tiers in the past two and a half years. The majority of movement between tiers is a result of environmental mitigation and infrastructure investments.

Table 8: Movement in the Inventory

	2014 Inventory	Remain from 2011	Upgraded from 2011	Added Sites in 2014
Tier 1	14	6	5 (previously Tier 2 site)	3
Tier 2	17	8	6 (previously Tier 3 site)	3[24]
Tier 3	23	21	-	2
TOTAL	**54**	**35**	**11**	**7**

Of the 11 sites that moved up a tier:

- Five sites are located in Hillsboro, five sites are located in the East Multnomah County submarket, and one site is located in Portland.
- Six sites are in private ownership and five sites are in public ownership three (3) sites owned by the Port of Portland, one site owned by Mount Hood Community College, and one site owned by Clackamas County Development Agency.

Seven of the 11 sites that moved up a tier required investment in infrastructure and mitigation.

- Two sites moved up a tier due to environmental constraint mitigation.[25]
- Five sites received transportation/infrastructure investments.[26]

[24] One of the three new Tier 2 sites is site number 1 (Port of Portland - Rivergate). In 2011, this was a Tier 1 site; however, due to the listing of the streaked horned lark species, the site requires mitigation and is no longer developable within a 6 month timeframe. Environmental mitigation required is a 7-30 month process which drops the site from Tier 1 to Tier 2.

[25] **Site 13:** Specht Properties and **Site 29:** Clackamas County Development Agency.

[26] **Sites 18 and 19:** Troutdale Reynolds Industrial Park Phase 2, **Site 22:** Gresham Vista Business Park West, and **Sites 50 and 52**: Shute Road North and South.

Additionally, of the 11 sites that upgraded a tier, four were able to do so without significant investment in infrastructure.

- Two of the sites experienced a legislative change, and were taken out of urban reserves and brought into the UGB.[27]
- Two of the sites had a change in the property owner willingness to transact, and therefore were upgraded to Tier 2.[28]

Sites Deleted from the Inventory

Using the methodology developed during the 2011 inventory project, the team removed nine sites, resulting in a total of 54 sites in the June 2014 inventory. The tables below show which 2011 inventory sites are no longer on the inventory with an explanation of why. Between the *2011 and 2014 Regional Industrial Land Inventory Report*, nine sites and approximately 400 estimated net developable acres were removed from the inventory. In contrast, the seven sites added to the 2014 inventory accounted for approximately 240 acres.

Table 9: 2011 Inventory Sites Removed from 2014 Inventory

Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acres	Sale/Lease/ Transact (2011)	Development and/or Action
Tier 1 Sites							
11	Port of Portland (PIC East)	Portland	Multnomah	43.50	41.18	L	Currently under construction; results in less than 25 developable acres
44	Intel Corporation	Hillsboro	Washington	31.39	31.39	S	Currently used as a paved/gravel parking lot and staging area for Intel
Tier 2 Sites							
40	Pacific Realty Associates	Tualatin	Washington	26.80	26.80	S/L	Currently under construction; results in less than 25 developable acres
67*	Port of Portland (PIC West)	Portland	Multnomah	69.45	58.96	L	Held by Port of Portland for future relocation of rental cars at PDX[29]

[27] **Site 101:** Vanrose Farms and **Site 104:** Meek Subarea

[28] **Site 23:** Mt. Hood Community College and **Site 47:** Cranford

[29] With passenger volumes increasing to 15 million in 2013, the timeframe for the relocation of the rental cars at Portland International Airport has shortened, necessitating the removal of this site from the inventory.

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Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acres	Sale/Lease/ Transact (2011)	Development and/or Action
68*	Port of Portland (Hillsboro Airport)	Hillsboro	Washington	39.22	34.15	L	Port of Portland Hillsboro Airport planning has changed, requiring this site for future airport use only
Tier 3 Sites							
6	McCormick & Baxter Creosoting	Portland	Multnomah	42.39	33.39	No	Designated for University of Portland expansion and development (City of Portland approved conditional use master plan)
15*	BT Property LLC (UPS)	Gresham	Multnomah	51.45	49.45	No	Owner has decided to develop site for future use
28	James & Mollie Siri	Happy Valley	Clackamas	26.40	25.26	No	Dedication along SE 172nd results in less than 25 developable acres
100	Holzmeyer Richard Henry	Forest Grove	Washington	111.37	100.12	N/A	Designated from urban reserves to rural reserves during Grand Bargain; no longer eligible to be included in inventory

* This site was removed from the 2011 inventory as it is no longer available to the general market; however, it now appears on Table 7: User Owned and User Designated Sites

Sites Added to the Inventory

Using the methodology developed during the 2011 inventory project, the team found seven new sites to add to the inventory and removed nine sites, resulting in a total of 54 sites in the June 2014 inventory. The table below shows which 2011 inventory sites are no longer on the inventory with an explanation of why. Approximately 240 estimated net developable acres were added in the same time period with seven newly identified sites. The net decrease of large industrial site acreage in the metro-region is an estimated 160 net developable acres.

Table 10: Sites Added to the 2014 Inventory

Site ID	Owner/Site	Location	County	Gross Acres	Net Developable Acres	Sale/Lease/ Transact (2014)
Tier 1 Sites						
111	Weston Investments and CCF Oregon LLC	Gresham	Multnomah	34.99	26.00	S
113	Henningsen Cold Storage	Forest Grove	Washington	28.57	26.44	Yes
114	Colwood Ltd Partnership	Portland	Multnomah	47.55	39.42	S
Tier 2 Sites						
112	Hally Waworth	Forest Grove	Washington	38.19	36.15	Yes
115	SolarWorld	Hillsboro	Washington	46.23	46.23	S
Tier 3 Sites						
110	Davis Family Trust & Remi Taghon	Cornelius	Washington	49.01	40.21	Yes/No
116	Northwest Sand & Gravel INC	Unincorporated	Clackamas	26.2	21.10	S

2014 Inventory Update Conclusions

The 2014 industrial land inventory analysis finds that Portland metropolitan area's supply of large industrial sites has decreased over the past two and a half years. Supply continues to be most limited for sites of 50 acres or more, consistent with the 2011 inventory. The sites that are available are concentrated in the Columbia Corridor in Multnomah County, Hillsboro, and Wilsonville/Tualatin in Washington County. The location distribution reflects previous local and regional land use planning decisions to maintain a compact regional form.

Larger sites are more complex and take patience to acquire and develop. Parcel aggregation is a key issue to supplying larger sites to the market, affecting 25% of the sites in the inventory.

While this analysis has identified the available sites, and at a high level outlined the challenges that exist to bringing Tier 2 or 3 sites to development-ready status, the timeframes in the analysis assume that the jurisdictions, property owners, land-use regulatory bodies, and potential interveners are all working in support of the site's development and that appropriate public investments will be made to move these sites to market.

It is important to note that this inventory is a snapshot in time. As Tier 1 sites are absorbed by the marketplace, the expectation is that Tier 2 sites will continue to move to Tier 1 status and Tier 3 sites will continue to move to Tier 2. The inventory should be updated over time to ensure that the database of market-ready industrial sites is current, helps identify and prioritize required site readiness investments, and supports the region's recruitment and expansion efforts.

The experience of state and regional economic development experts indicates that accomplishing our region's traded-sector industrial retention, expansion, and recruitment strategy depends in part on the availability of an adequate supply of well-located, market-priced, and developable large industrial sites. The inventory can be used as a reference for monitoring and tracking changes of absorption of industrial land in the region, and can also be used by the public sector as the basis for making informed land use and investment decisions around the supply, regulation, and market readiness of industrial lands.

NEXT STEPS

The *2011-12 Regional Industrial Site Readiness* project found that many large industrial sites in the region are not development-ready, impacting the region's ability to meet forecasted job growth requirements[30], and potentially causing the region to miss business growth, recruitment opportunities, and the jobs and payroll they represent. The 2014 inventory update reinforces the importance of continued state and regional focus on the market-readiness of large industrial sites within the region. The well-paying jobs provided by traded-sector industries will help Oregon achieve economic prosperity, reduce income disparity, and secure funding for public services and amenities.

Regional policymakers have acknowledged the importance of a development-ready supply of large industrial sites in local and regional land use planning documents, such as Metro's *2014 Urban Growth Report* and separate local comprehensive plan updates, and should retain a policy focus on identifying and prioritizing funding to move industrial sites within the region to market. In addition to this work, the PMT has identified five next steps that could be helpful in the region and statewide.

Improvements to Regulatory Processes that Reduce Uncertainty for Firms Seeking Sites

Existing permitting processes sometimes add uncertainty and extend development timelines to the extent that targeted industry employers may choose sites in other regions, states, or countries. Options could include alignment of federal, state, regional, and local permitting processes; allowing wetland permitting and mitigation occur prior to identifying a site user; prioritizing technical assistance and funding; and dedication of staff with industrial development expertise within state permitting agencies. In addition, a regional focus on environmental mitigation strategies to support industrial development is appropriate (wetland banks, technical assistance). Although brownfield remediation is an issue, which affects a smaller number of larger industrial sites, industrial to industrial brownfield remediation is a significant challenge facing the region with remediation costs two to four times the sale price of industrial land[31]. Portland Harbor superfund sites have even greater costs challenges and require special focus. The state and region should consider incentives and regulatory relief to move these sites to productive industrial uses.

Expansion of and Support for Existing Business Development Programs

Existing state programs like Industrial Site Certification, Regionally Significant Industrial Areas, Immediate Opportunity Fund, Special Public Works Fund, and the brownfield programs deserve ongoing support and increased funding. Business Oregon and the Metro Regional Solutions Team should continue to collaborate on strategic efforts and prioritize site-specific work, leveraging Business Oregon programs to address the array of infrastructure and development constraints in the region.

Creation and Funding of New Capital and Financial Tools

New or refined tools are needed to address the upfront costs of capital investments for transportation, sewer, water, brownfield cleanup, wetlands mitigation, and site aggregation. Because of the personal income tax benefits that accrue to the state when large firms locate here, the state could play a role in providing upfront capital for industrial land site preparation.

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[30] The draft *2014 Metro Urban Growth Report* forecasts 85,000 to 440,000 additional jobs and 300,000 to 485,000 additional people inside the Metro urban growth boundary by the year 2035.

[31] *Metro Brownfield Scoping Project and Portland Brownfield Assessment* – Maul, Foster & Alongi, Inc. 2012.

In 2013, the Oregon Legislature approved enabling legislation for two sources of state funding for industrial site readiness (Senate Bill 246 and Senate Bill 253), but did not provide funding for these programs. To support the region's job growth requirements identified in the draft *2014 Urban Growth Report*, state funding for these two new Industrial Site Readiness Programs should be pursued, including due diligence assessments and forgivable loans to address the broad range of industrial site readiness constraints.

To address the limited supply of larger industrial sites and assembly challenges affecting 25% of sites in the inventory, the region should develop new tools to support the acquisition and aggregation of industrial lands needed for "game changer" traded-sector investments (e.g., Coffee Creek in Wilsonville, North Hillsboro industrial lands). The region should also retain a policy focus on identifying sources of infrastructure funding to meet the region's $21-47 billion[32] in infrastructure funding needs.

Completion of Due Diligence Work on Sites

Continued work on industrial site due diligence (such as identifying needed infrastructure improvements, scoping environmental cleanup, understanding the scale of wetlands, and producing preliminary cost estimates for brownfield and wetland mitigation) will help to remove uncertainty surrounding sites. A relatively small investment in due diligence work could catalyze accelerated site preparation and prioritize scarce funding.

Regular Update of the Inventory and Completion of Follow Up Studies

Since the June 2014 inventory was completed, three Tier 1 sites have been absorbed into the market[33]. Regular updates to this inventory and due diligence on sites could significantly benefit the region's economic development efforts. Statewide application of this methodology could benefit other regions.

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[32] *Regional Infrastructure Analysis*, Metro July 2008

[33] **Site 13:** Specht Properties Inc. in Portland; **Site 46:** Development Services of America (Westmark site) in Hillsboro; **Site 114:** Colwood Ltd Partnership in Portland.

Materials following this page were distributed at the meeting.

business oregon

PORT OF PORTLAND
Possibility. In every direction.

Update of Portland Metro Industrial Site Readiness Inventory

Metro Council Work Session
October 9, 2014

Metro

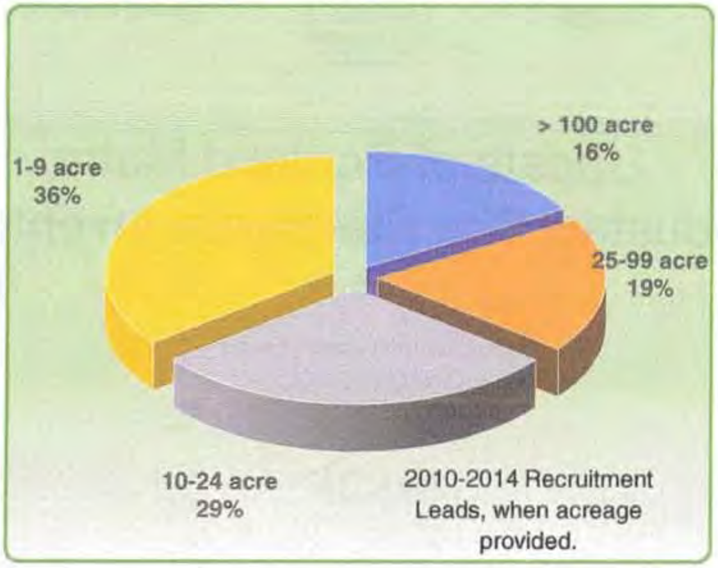
NAIOP

PORTLAND BUSINESS ALLIANCE

Industrial Land Supply

- Job creation and income growth are key to Oregon's economic prosperity
- Traded-sector jobs provide middle income jobs and sustainable funding for public services
- Competitive supply of large industrial sites is critical to capture opportunities of economic upturn
- Business decision timeframe continues to shrink while site readiness timeframes are increasing

Site Requirements – All Industries



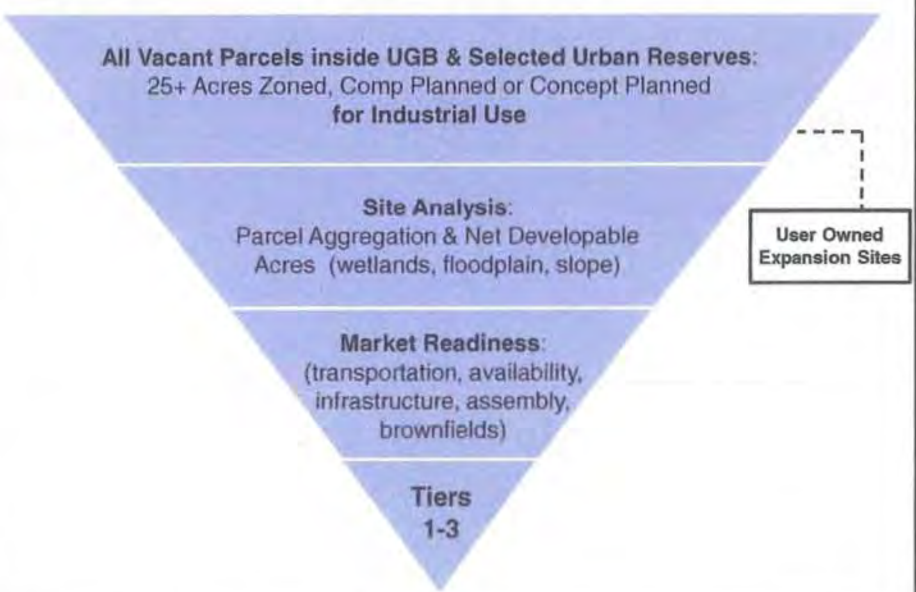
Site Requirements by Industry

Recruitment Opportunities by Industry Groups	Number of Opportunities	Largest Site Requirement	Smallest Site Requirement	Average Site Requirement
	(#)	(acre)	(acre)	(acre)
Service & Logistics	4	100	10	59.5
High Tech (including data centers)	10	308	5	74.8
Wood Products	3	100	15	71.7
Clean Tech (excluding solar)	13	300	1	11.4
Advanced Manufacturing - Other	16	400	1	19.5
Food Processing	17	100	2	16.9
Solar	22	250	1	27.5
Other (undisclosed)	4	300	6	10.3

Portland Metro Project

- Develop a market driven tool for determining the supply and readiness of large industrial sites within the Metro UGB
- Inform the work of policymakers regarding the availability of and the challenges facing industrial sites
- Lay the foundation for investments and actions to meet market demand and provide a regionally competitive environment for business expansion and recruitment

2014 Inventory Development

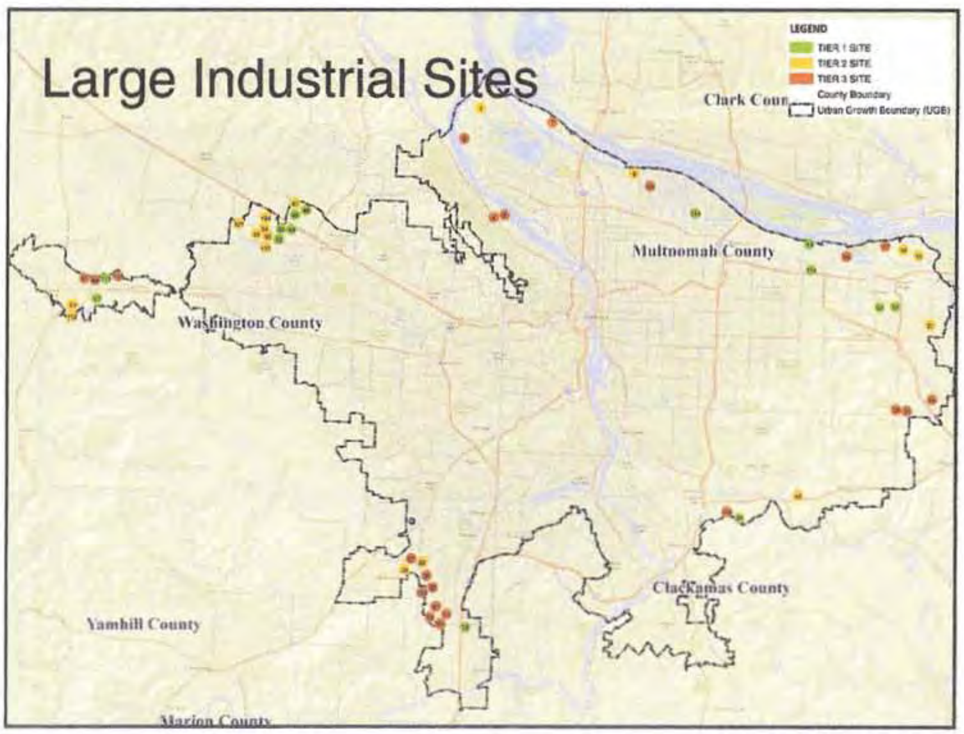


2014 Inventory Findings

54 industrial sites identified with 25+ net developable acres

- **14 Tier 1 sites** (6 months to development-ready)
- **17 Tier 2 sites** (7 months to 2 ½ years to development-ready)
- **23 Tier 3 sites** (> 2 ½ years to development-ready)

Large Industrial Sites



2014 Inventory Findings

- **7 sites added to the inventory**
  - Gresham, Forest Grove, Portland, Hillsboro, Cornelius, and Clackamas
- **9 sites removed from the inventory**
  - 3 sites developed and projected to result in $38 million in investments and 416 new jobs
  - 3 sites had legislative changes
  - 3 sites moved to user designated table due to program changes
- **11 sites upgraded a tier**
  - 5 sites moved from Tier 2 to Tier 1
  - 6 sites moved from Tier 3 to Tier 2

Case Study – Site Absorbed by Market

Site 40: Pacific Realty in Tualatin

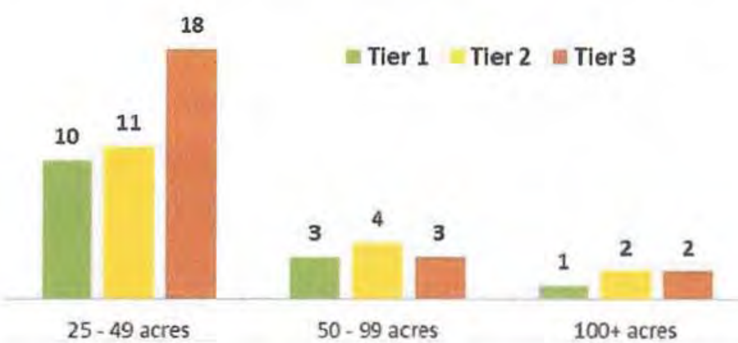
- Two buildings under construction by PacTrust
- 100,000 square foot building
- $9.5 million investment
- 275 projected distribution and logistics jobs
- Available in 2015

Case Study – Investment and Actions Upgrading Industrial Sites

Sites 18 and 19: Troutdale Reynolds Industrial Park Phase 2

- $2.5 million in Port of Portland planning and design to permit the infrastructure for Phase 2
- $8 million in regional transportation funding for local roads
- Available in 2016

Distribution of Sites by Tier & Size



	2011 Inventory	2014 Inventory
Tier 1	9	14
Tier 2	16	17
Tier 3	31	23
Total	56 sites	54 sites

	2011 Inventory	2014 Inventory
25-49 acres	40	39
50-99 acres	9	10
100+ acres	7	5
Total	56 sites	54 sites

7 Tier 1 Sites with Broad Market Appeal

Tier 2 and 3 Development Constraints

		TOTAL
BROWNFIELD / CLEANUP		6
NATURAL RESOURCES		18
INFRASTRUCTURE (WATER, SEWER, STORM)		17
TRANSPORTATION		25
LAND ASSEMBLY		13
STATE/LOCAL ACTIONS		23
WILLINGNESS TO TRANSACT	NO: UNKNOWN:	10 6

Inventory Conclusions

- A focus on industrial site readiness is critical to keeping up with growing demand
- Supply of large industrial sites in Metro UGB has decreased slightly since 2011
- Positive impacts in site readiness resulting from investments in infrastructure, mitigation and legislative actions
- Supply of larger 50 acres + sites is most limited
- Larger sites are more complex and take patience to acquire and develop

Conclusions - continued

- Multiple market-readiness constraints for remaining sites in the pipeline
- Of the 40 Tier 2 and Tier 3 sites:
  - 30% require aggregation
  - 50% require state and local actions
  - Over 40% have infrastructure constraints
  - Over 45% have natural resource constraints
  - Over 60% have transportation constraints
- 3 industrial sites located in the Portland Harbor Superfund site require special attention

Other Work Supporting Industrial Site Readiness and Development

- Governor's Regional Solutions Team
- Washington County Site Assessments
- Clackamas Regionally Significant Employment Land Assessments
- Brownfield Coalition
- Large Site Recruitment Strategy

Desired Outcomes

- Create market-ready industrial land base for middle income jobs in the Metro UGB
- Support projected population and job growth for the region
- Provide a sustainable tax base critical to public services

Policy Implications and Work Ahead

- The draft 2014 UGR forecasts a net surplus of industrial land supply in the medium and low growth forecast.
  - Given the site readiness challenges identified in the study, how do we as a region ensure we have an ongoing, market-ready supply of industrial sites?
- The 2009 UGR identified a shortage of larger industrial sites of 50+ acres in the region. The 2014 inventory identifies a supply of industrial "sites" to address this market gap, but highlights assembly and other readiness challenges.
  - What new tools can employed to support readiness of these larger, more complex sites?

Policy Implications and Work Ahead

- What steps can Metro take to support industrial site readiness needed to grow traded-sector jobs and help shift the region's declining wage paradigm?
  - How can Metro support local actions needed to move sites to readiness?
  - How do we as region make progress on transportation and infrastructure funding given identified funding gaps?
  - What new tools can we develop to address aggregation challenges in 30% industrial sites?
  - What tools can we employ to support industrial to industrial brownfield remediation?
  - Are there creative ways we can address our region's interests in industrial mitigation and natural resource protection and enhancement?
  - How can site assessment work be used to help focus our region's attention and resources on strategic job growth opportunities?

Policy Implications and Work Ahead

- The 2011 and 2014 Regional Industrial Site Readiness Inventories provide data points on our region's progress in moving sites to market and addressing market readiness challenges.
  - How will the information from the inventory be considered in the UGR and future Metro policy decisions?

For More Information

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Site Size and Tier Distribution

CLACKAMAS COUNTY	
Absorbed by the Market	0
Tier 1	**2**
25-49 acres	2
50-99 acres	0
100+ acres	0
Tier 2	**1**
25-49 acres	1
50-99 acres	0
100+ acres	0
Tier 3	**1**
25-49 acres	1
50-99 acres	0
100+ acres	0
TOTAL	**4**

MULTNOMAH COUNTY	
Absorbed by the Market	2
Tier 1	**5**
25-49 acres	3
50-99 acres	1
100+ acres	1
Tier 2	**5**
25-49 acres	2
50-99 acres	3
100+ acres	0
Tier 3	**10**
25-49 acres	8
50-99 acres	0
100+ acres	2
TOTAL	**20**

WASHINGTON COUNTY	
Absorbed by the Market	1
Tier 1	**7**
25-49 acres	5
50-99 acres	2
100+ acres	0
Tier 2	**11**
25-49 acres	8
50-99 acres	1
100+ acres	2
Tier 3	**12**
25-49 acres	9
50-99 acres	3
100+ acres	0
TOTAL	**30**

Rural Washington and Clackamas County, such as Banks, Canby, Molalla, and Estacada are not included in the inventory.