

# CLACKAMAS COUNTY BOARD OF COUNTY COMMISSIONERS

Sitting as the Governing Body of Clackamas County Service District No. 1 and Tri-City Service District

## Policy Session Worksheet

**Presentation Date:** 8/9/2016 **Approximate Start Time:** 1:30p **Approximate Length:** 60 min

**Presentation Title:** Tri-City Service District and Clackamas County Service District No. 1  
Population Growth Study

**Department:** Water Environment Services

**Presenter:** Greg Geist and Lynne Chicoine

### WHAT ACTION ARE YOU REQUESTING FROM THE BOARD?

No action is requested; this material is being presented as an informational item in accordance with prior BCC instruction regarding maintaining the critical path to construction of the solids handling project at the Tri-City Water Resource Recovery Facility.

### EXECUTIVE SUMMARY:

Population projections are used to forecast future customers and service needs. Water Environment Services (WES) commissioned a population forecast study of the Tri-City Service District (TCSD) and Clackamas County Service District No. 1 (CCSD1) from Portland State University's Population Research Center (PSU) in 2011. This study was important in WES' planning efforts because the number of ratepayers within the service districts informs projected treatment capacity and capital planning requirements.

The 2011 PSU study started with populations from the 2010 U.S. Census, and delivered population projections to 2040 for CCSD1, TCSD, and the City of Milwaukie. This study reported a range of projections, from low to medium to high. The methodology used in the 2011 study was accomplished considering variables such as fertility, mortality, migration, and housing unit models.

The Tri-City's Solids Handling Improvements Project that WES is currently planning is intended to serve the ratepayers of both TCSD and CCSD1. As part of this planning process, a new population study was commissioned and carried out by ECONorthwest to update the results of the 2011 study. The 2016 study was performed comprehensively using Oregon Metro's *MetroScope* model, which forecasts the number of households and the number of jobs by sector using a metric known as a transportation analysis zone (TAZ). TAZs cover the entire Portland metropolitan region without gaps or overlaps, and are smaller than cities or sewer districts, so they may be aggregated to produce estimates for those larger geographies. WES staff worked with County planning staff and planning staff from partner cities to develop assumptions about how and where jurisdictions will expand by 2040. The 2016 study also incorporates assumptions of expanded service district boundaries, which are consistent with partner cities' individual plans, such as the West Linn *Transportation Master Plan (2016)*, the Oregon City *Sanitary Sewer Master Plan 2040*.

The long-term results of the 2016 and 2011 studies are similar, despite the different methodologies employed to calculate the results. The results are being used in the planning efforts for the Solids Handling Project, the WES Collection System Master Plan, and other WES efforts.

WES will use the 2016 population study results to guide co-investment conversations once the conceptual design is complete. Further discussions on the rate impacts to the districts will be discussed at meetings of the Regional Wastewater Treatment Capacity Advisory Committee (Regional Committee) and the results of those conversations will be brought back to the BCC in accordance with WES' efforts to maintain the critical path to construction.

**FINANCIAL IMPLICATIONS:**

Is this item in your current budget?  YES  NO

What is the cost? N/A                      What is the funding source? 2015 WES Capital Budget

**STRATEGIC PLAN ALIGNMENT:**

This item aligns with the WES strategic business plan in that it works to complete the comprehensive plan that will achieve sewer improvements and funding to support the expected regional 20-year growth horizon.

This item aligns with the County's Performance Clackamas strategic priority of building a strong infrastructure.

**LEGAL/POLICY REQUIREMENTS:**

N/A

**PUBLIC/GOVERNMENTAL PARTICIPATION:**

The Regional Committee will be briefed on this information on 25 August 2016. All district ratepayers and members of the public are invited to attend this meeting.

**OPTIONS:**

None; this is an informational item.

**RECOMMENDATION:**

None; this is an informational item.

**ATTACHMENTS:**

- 2016 population study summary presentation

**SUBMITTED BY:**

Division Director/Head Approval \_\_\_\_\_

Department Director/Head Approval GG

County Administrator Approval \_\_\_\_\_

For information on this issue or copies of attachments, please contact Matt Glazewski at 503-742-4566
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Clackamas County  
**Water Environment Services**

Population Projection  
August 9, 2016

# Purpose of Population Study

- » Update/confirm results of 2011 Portland State University (PSU) Study, commissioned by WES
- » Serves as basis for capital planning for collection system and wastewater treatment projects:
  - Tri-City Solids Handling Improvement Project
  - Collection System Master Plan (CSMP)
  - Future Willamette River Master and Comprehensive Master Plans
- » Serves as basis for attributing capital costs to service districts



# Sources and References

- » “Population Forecasts for the TCSD and CCSD1 with All Damascus and City of Milwaukie 2010-2040,”  
*Population Research Center, PSU, 2011*
- » Certified Population Estimate, *PSU, December, 2015*
- » City of West Linn – *City of West Linn Transportation System Plan, 2016*
- » City of Oregon City – *Laura Terway, Interim Planning Manager and Sanitary Sewer Master Plan, 2014*
- » City of Gladstone - *No response to request for information*
- » City of Happy Valley – *Michael Walter, Economic and Community Development Director*
- » City of Milwaukie – *David Levitan, Associate Planner*

# Population Study Methodologies

## PSU (2011)

- » Started with 2010 U.S. Census data
- » Considers births, deaths and net migration
- » No accounting for specific location or geography/buildable land
- » Assumes that boundaries expand to accommodate growth

## ECO NW/Metroscope (2016)

- » Started with 2015 PSU Certified Population Estimate
- » Based on 2018 Oregon Metro Regional Transportation Plan
- » Allocates region-wide forecasts into TAZs (Metro Transportation Analysis Zones)
- » Reviewed by local jurisdictions

# Today's (2015) Population

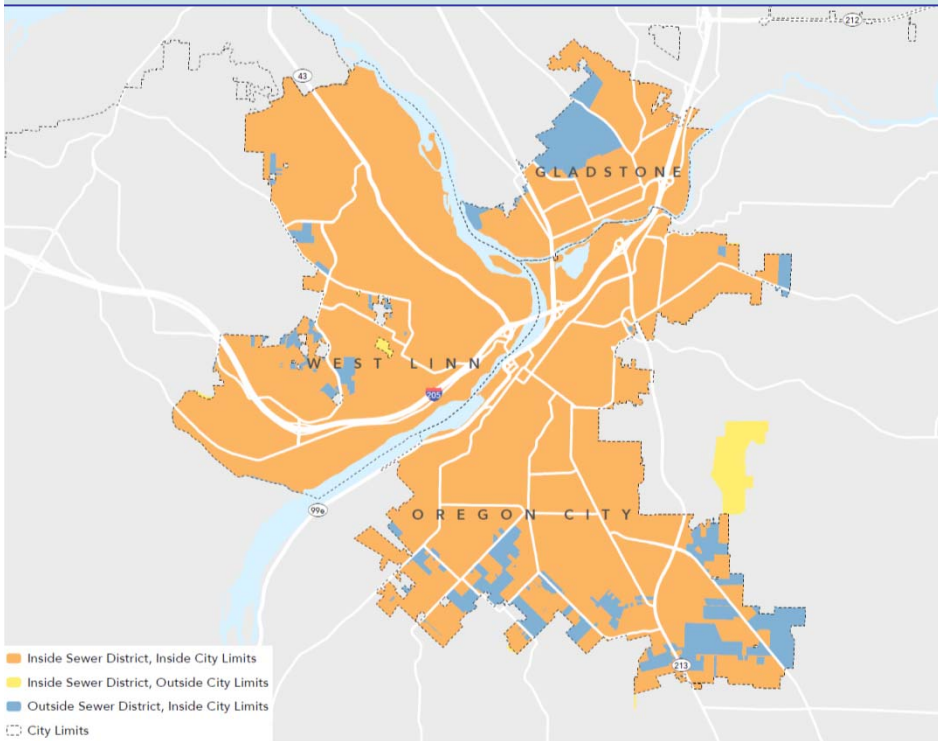
Jurisdiction	2015
Milwaukie	20,505*
Johnson City	565*
Happy Valley	17,510*
Unincorporated CCSD1	74,294
Gladstone	11,505*
Oregon City	33,940*
West Linn	25,605*
Tri-City District (TCSD)	69,406

\*Source: Certified Population Estimate, *Portland State University, December, 2015*

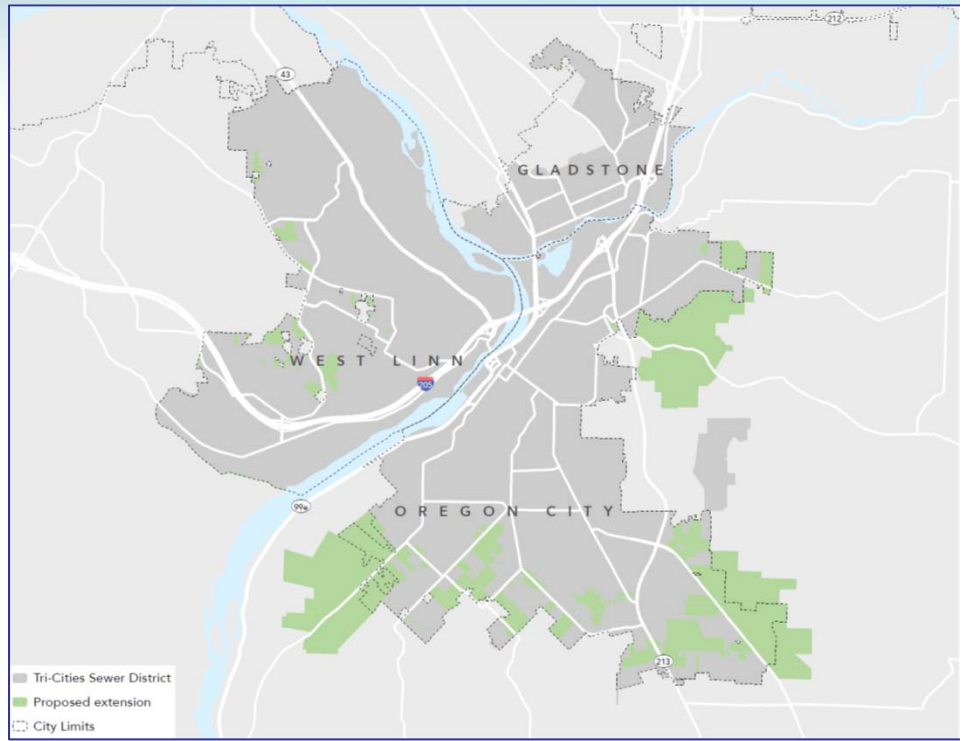


# Service Area - TCSD

2015



2040

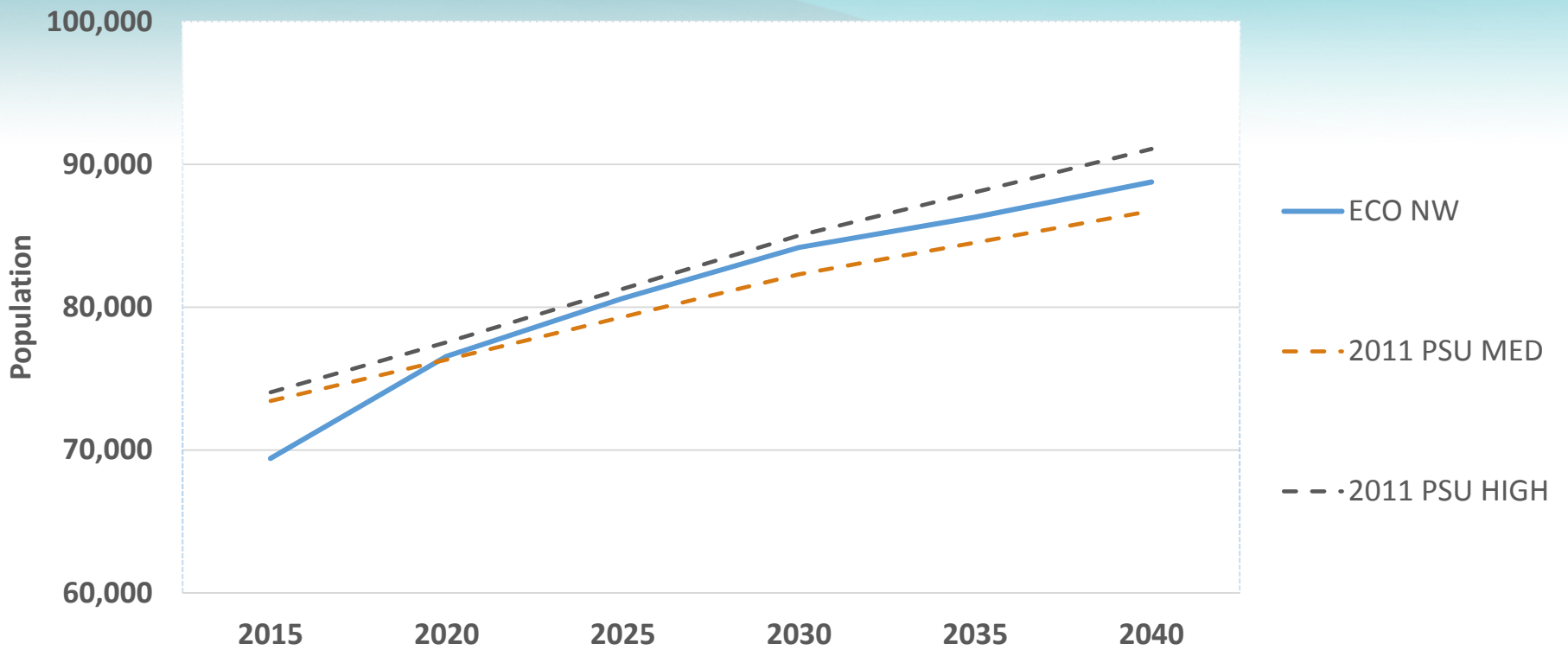




# Population Projection - TCSD

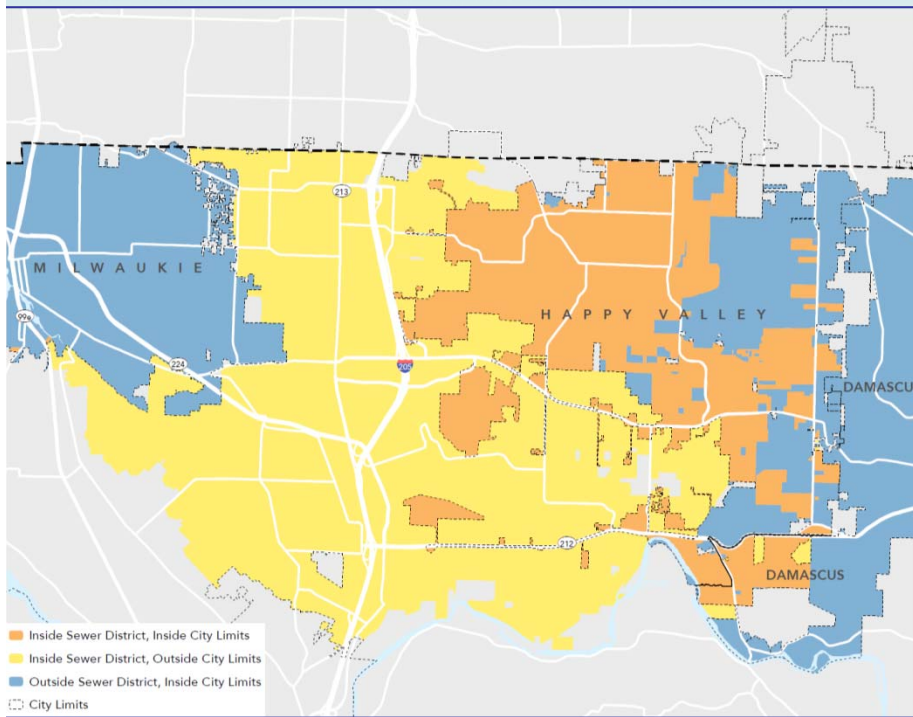
Jurisdiction	2015	2020	2025	2030	2035	2040
Gladstone	11,505	11,703	11,723	11,765	11,737	11,714
Oregon City	33,940	38,599	41,711	44,529	46,201	47,534
West Linn	25,605	27,794	28,559	29,068	29,185	30,087
<b>TCSD</b>	<b>69,406</b>	<b>76,565</b>	<b>80,621</b>	<b>84,185</b>	<b>86,308</b>	<b>88,766</b>

# Population Projection - TCSD

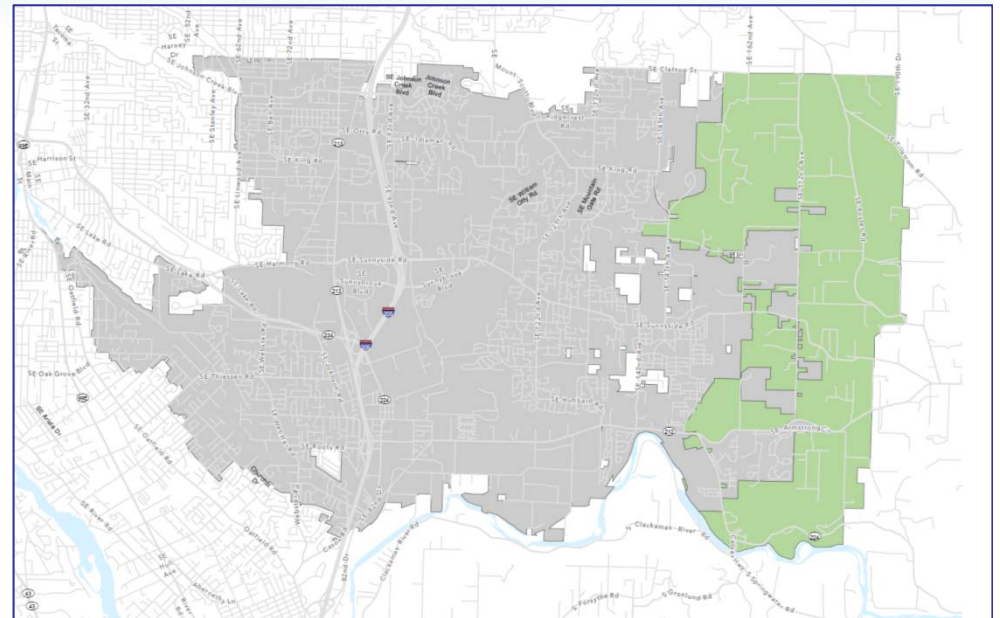


# Service Area – CCSD1

2015



2040

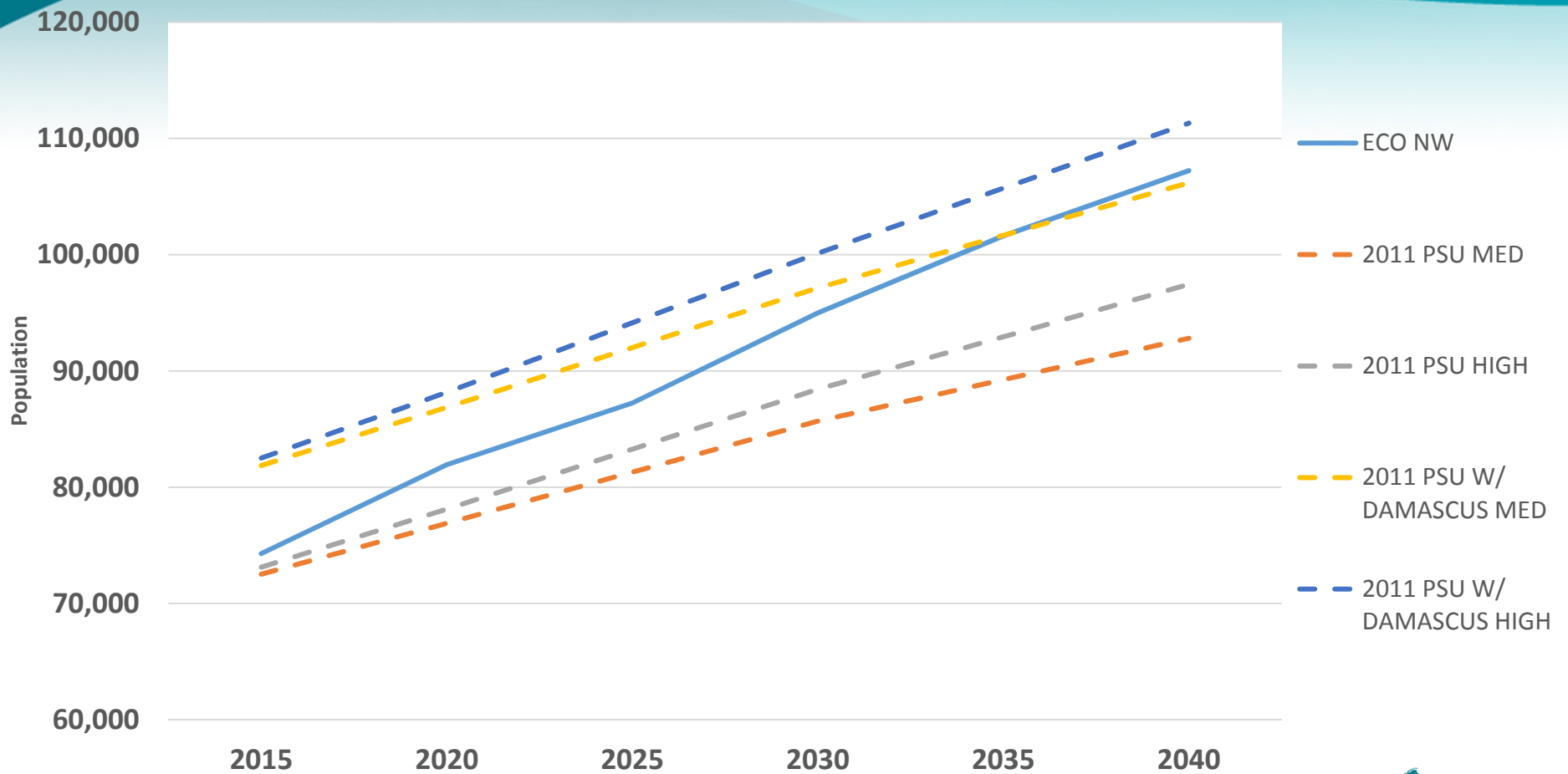


*Note: 2040 projection includes district expansion in Happy Valley/Former Damascus Area*

# Population Projection – CCSD1

Jurisdiction	2015	2020	2025	2030	2035	2040
CCSD1 (Unincorporated)	74,294	81,944	87,236	94,996	101,625	107,236
Milwaukie	20,505	21,291	21,973	22,241	22,076	21,914
Johnson City	565	556	545	536	526	520
<b>Total Population Served</b>	<b>95,364</b>	<b>103,791</b>	<b>109,754</b>	<b>117,730</b>	<b>124,227</b>	<b>129,670</b>

# Population Projection – CCSD1



# Projected Growth by District

Growth in CCSD1 = 64%  
Total Growth

Growth in TCSD = 36%  
Total Growth



# QUESTIONS?

Lynne Chicoine, Capital Program Manager

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