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Review of Urban Growth Area (UGA): Land Capacity Analysis (LCA)

A Land Capacity Analysis is an essential component in reviewing a UGA. An LCA is a quantitative estimate of how much land a city will require as it grows over the succeeding 20-year period. It begins with consultation between a county and its cities and towns to select a population growth projection from a range of population growth projections provided by the state Office of Financial Management (OFM). The population projection, together with a county employment growth forecast, is then allocated primarily to UGAs, to assist in sizing UGAs to accommodate future urban growth.

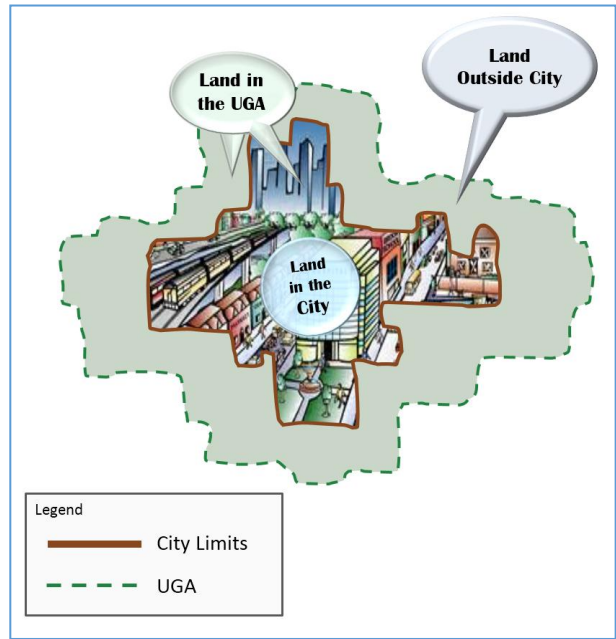
After reviewing OFM's most recent population projections for Yakima County, the Yakima County Planning Division prepared a draft report entitled *Yakima County – Draft 2046 Population Projections and Allocations* that allocated the projected population growth among the county's 14 cities.

The Planning Division shared the report with the County's cities on April 15, 2024, and met with each city during the subsequent summer to review the report and get their comments on the draft allocations.

Finally, staff reviewed all received comments and issued a final report on April 8, 2025. This LCA report reflects those final population allocations.

Three terms will be used throughout this analysis. They will be used to describe potential growth as follows:

- 1) **Land in city:** This is used to describe lands within the city limit.
- 2) **Land outside city:** This is used to describe the land in the UGA over which the county has jurisdiction.
- 3) **Land in UGA:** This term refers to the city's current area plus the areas the city plans to annex and develop over a 20-year period. The analysis combines terms 1 and 2 to determine its size.



The LCA quantifies the amount of land needed for Moxee's growth according to the analytical process outlined in the "Urban Lands" section in the Land Use Element of Yakima County's Comprehensive Plan (*Horizon 2046*). The general inputs and calculations¹ are outlined below:

Calculation of Net Acreage Available in the UGA for Future Growth:

Acres needed for future residential
(plus) Acres needed for future commercial
(plus) Acres needed for future community facilities
(plus) Acres needed for future Streets

¹ The spreadsheet in Attachment 1 provides expanded descriptions for assumptions and calculations. This section is explanatory and provides a synopsis of the methods and inputs used for UGA and LCA analysis.

(plus) Acres needed for future industrial

Subtotal: the total acreage needed for UGA Growth

Acres of currently vacant residentially zoned land

(plus) Acres of currently vacant commercially zoned land

(plus) Acres of currently vacant community facilities land

(plus) Acres of currently vacant industrially zoned land

Subtotal: the vacant acreage available for growth within the current UGA

Subtotal: total acreage needed for UGA growth

(minus) Subtotal: the vacant acreage available for growth within the current UGA

Total: Net Acreage Available in the UGA for Future Growth.

Quantity of land calculations for non-industrial uses

Yakima County's Division of Geographic Information Services (GIS) calculated the current acreage of developed residential, commercial, retail, and community facilities; and the acreage of current vacant and partially vacant land in each zoning district to generate the figures in the "UGA Land Capacity Analysis" spreadsheet (Attachment 1)

In summary, this analysis finds that Moxee's UGA has enough vacant lands to accommodate its non-industrial growth for 39 years. It has a surplus of 283 residentially zoned vacant acres, a surplus of 4 commercially zoned vacant acres, and a deficit of 36 vacant acres owned by providers of community facilities to accommodate projected growth through 2046, as explained below:

- 1. Population and Households Analysis:** Based on Moxee's projected 2024-2046 population growth, this analysis estimates that 1,152 additional households will be added to the city's population by the year 2046.

2046 population forecast for City (City/County consensus)		People 9,076
2024 population in City (OFM's April 1 estimate)		People 4,820
Population change: 2024 – 2046		People 4,256
Average household size in City: 2020 ²		People 3.83
Future Households in the City 2024 – 2046		<u>1,111 households</u>

- 2. Future Residential Land Need:** The acreage needed for future residential growth through 2046 was calculated by assuming an average future density of 5.1 dwelling units per acre (i.e., 8,500 sq. ft. for each household) and multiplying this by the number of projected future households:

(8,500 sq. ft. x 1,111 households) ÷ 43,560 sq. ft. per acre =	<u>217 acres</u>
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- 3. Future Commercial & Retail Land Need:** The acreage needed for future commercial and retail growth through 2046 was calculated by multiplying the projected population increase by the current per person acreage of developed commercial lands within the city.

² Taken from Table S1101 – 5-Year American Community Survey

4,256 people x .0035 acres per person =	<u>15 acres</u>
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4. **Future Community Facilities Land Need:** The acreage needed for future community facilities growth through 2046 was calculated by multiplying the projected population increase by the current per person acreage of developed community facilities land within the city:

4,256 people x .0108 acres per person =	<u>46 acres</u>
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5. **Future Streets Land Need:** The acreage needed for future rights-of-way to accommodate streets and utilities through 2046 was calculated by multiplying the acreage needed for future residential, commercial and retail, and community facilities by 15%:

Residential acreage needed	217 acres
(plus) Commercial/retail acreage needed	15 acres
(plus) Community facilities acreage needed	46 acres
Subtotal	278 acres
Equals: Total streets acreage needed (Subtotal x .15)	<u>42 acres</u>

6. Land Capacity Analysis (LCA)³

For this analysis we compare the identified land needs to the amount of existing vacant land to determine whether the city and the unincorporated UGA have sufficient capacity to accommodate projected growth through 2046 or whether a land deficit remains.

The current acreage of vacant non-industrially zoned land is compared to the calculated needs for future non-industrial land uses.

a) Residentially zoned capacity calculation:

Currently vacant residentially zoned land in the city	232 acres
(minus) needed residential acreage, including associated streets	250 acres
Subtotal: Deficit of vacant residentially zoned land within city	<u>(18) acres</u>
(plus) current vacant residentially zoned land outside the city	301 acres
Equals: Surplus of vacant residentially zoned land in the UGA	<u>283 acres</u>

b) Commercially zoned capacity calculation:

Currently vacant commercial and retail zoned land in city	6 acres
(minus) needed commercial and retail acreage, including associated streets	17 acres
Subtotal: Deficit of vacant commercially zoned land in city	<u>(11) acres</u>
(plus) Surplus current vacant commercially zoned land outside the city	15 acres
Equals: Surplus of vacant commercially zoned land in the UGA	<u>4 acres</u>

c) Community facilities capacity calculation:

Current vacant community facilities land in city	17 acres
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³ The spreadsheet in Attachment 1 provides the LCA steps and expanded descriptions for assumptions and calculations.

(minus) need community facility acreage, including associated streets	53 acres
Subtotal: Deficit of vacant community facilities in City	<u>(36) acres</u>
(plus) Currently vacant community facilities land outside of the city	0 acres
Equals: Deficit of vacant community facilities land in UGA	<u>36 acres</u>

d) Net capacity of non-industrially zoned UGA calculation (total of a-c above):

Surplus of vacant residentially zoned land	283 acres
(plus) Surplus of vacant commercially zoned land	4 acres
(plus) Deficit of land needed for future community facilities	(36) acres
Equals: Surplus of vacant land in non-industrially zoned UGA	<u>251 acres</u>

e) Years of growth in city (excluding industrial growth)

Deficit of vacant land for residential, commercial, community facilities, and streets	(65) acres
Equals: Years of growth available in City in 2024	<u>18 years</u>

f) Years of growth outside city (excluding industrial growth)

Equals: Years of growth available outside City in 2024	<u>21 years</u>
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g) Years of growth in UGA (excluding industrial growth)

Surplus of vacant land for residential, commercial, community facilities, & streets within UGA	251 acres
(computed) Market Choice Factor in UGA (MCF) ⁴	78 percent
Equals: Years of growth available in UGA in 2024	<u>39 years</u>

Years of growth for non-industrially zoned UGA calculation

To determine the years of growth available in the UGA for non-industrial zoned land, we first express the surplus (or deficit) of non-industrially zoned land MCF as a percentage. For example, as shown below, if a city has 125 vacant acres but only needs 100 acres for future growth, it has 25% more vacant land than required. This number 25% is the Market Choice Factor.

$$[(\text{acres currently vacant}) \div (\text{acres needed for future growth})] - 1.00 = \text{MCF\%}$$

Inserting Moxee's numbers (from the table below) in the formula provides the following percentage for Moxee's MCF:

$$(571 \div 320) - 1 = 78\%$$

The MCF% is then utilized in the final calculations to result in the years of growth available in the UGA (see below). The County's 2046 UGA Update calculated the amount of vacant land needed for the next 22 years of growth as Yakima County's land capacity analysis spans 2024 to 2046 (RCW 36.70A.130(b)).

⁴ MCF Use and Calculations Summary are found below under Conclusion of Above Tables

$$\text{MCF in Years} = (78\% + 1) \times 22 = 39 \text{ years of growth}$$

Total amount of vacant land needed in UGA for Future Non-industrial Uses. Adding the needed acres from the categories above calculates the total acreage below.

Acres needed for future residential uses (and associated streets)	250 acres
(plus) Acres needed for future commercial & retail uses (and associated streets)	17 acres
(plus) Acres needed for future community facilities (and associated streets)	53 acres
Equals: Total vacant acres needed for future non-industrial growth	<u>320 acres</u>
Total amount of currently vacant Non-Industrially Zoned Land in UGA: (vacant residential + vacant commercial/retail uses + vacant community)	571 acres

7. Future industrial land needs:

As outlined in the "Urban Lands" section of the Land Use Element, the city determines the amount of land needed for future industrial use "based on its economic development strategy rather than future population projections." The County's GIS analysis provides current acreages of industrially zoned lands:

Currently developed industrially zoned land in city	214 acres
Currently developed industrially zoned land outside city	0 acres
Currently vacant industrially zoned land in city	489 acres
Currently vacant industrially zoned land outside city	0 acres
Additionally vacant industrially zoned land need in city	0 acres
Additionally vacant industrially zoned land need outside city	0 acres

Review of Patterns of Development and Densities Permitted in the UGA

In addition to reviewing Moxee's UGA as shown above, Yakima County must also review the densities permitted within both the incorporated and unincorporated portions of the UGA, and the patterns of development occurring within the UGA, as required by RCW 36.70A.130(3)(a).

The City of Moxee includes 8 zoning districts within its limits: R-1 (Single-family, manufactured or modular home on a single lot), R-2 (Single-family and two-family), R-3 (Multifamily), RR (Rural residential), C-1 (Central business district), C-2 (General commercial), I (Light industrial/manufacturing), and P (Public).

The densities permitted in the residential zones are analyzed below. The residential zoning districts and their allowed densities are:

City of Moxee Zoning (Title 16 Land Use and Development)		
Zoning District	Minimum Lot Size	Density
R-1 (Single-family, manufactured or modular home on a single lot)	7,000 sq ft	6 dwelling units (du)/acre
R-2 (Single-family and two-family)	5,000 sq ft to 7,000 sq ft	7.26 to 12 du/acre

R-3 (Multifamily)	4,000 sq ft to 7,000 sq ft	7.26 to 20 du/acre
RR (Rural residential)	21,780 sq ft to 7,000 sq ft	2 to 6 du/acre
Yakima County Zoning in the Urban Growth Area (Yakima County Code Title 19)		
Zoning District	Minimum Lot Size	Density
R-1 (Single Family Residential)	4,000 – 10,000 sq. ft. (depending on use) 7,000 sq. ft. for single-family residence	7 units per acre

Conclusions of the Above Tables

Within its city limits, Moxee currently has 232 acres of vacant residential-zoned land. If developed with single-family homes on 7,000 square foot lots within city limits, the area could accommodate 1,444 new homes.

Outside city limits, Moxees' Urban Growth Area (UGA) contains 301 vacant acres. All residential land in the UGA falls under the County R-1 zone, which allows a maximum density of seven units per acre. If built to capacity at an 8,500 square foot lot/5.1 du density, the UGA could support 1,535 new homes, far exceeding the identified need of 1,111 homes for the entire area.

City/County Collaboration

County staff met with City of Moxee representatives on June 11, 2024, and again on January 16, 2025, to collaboratively review the population projections and Yakima County's Land Capacity Analysis for the Moxee Urban Growth Area. During these meetings, staff reviewed parcel-level GIS data, discussed the City's recent residential growth trends, and evaluated permitted densities under the County's R-1 zoning. The conversations focused on verifying the accuracy of identified vacant and partially vacant parcels, confirming infrastructure availability for future development, and comparing land supply with the projected housing need through 2046. City staff expressed support for the County's approach and emphasized the importance of maintaining a mix of housing types, while also ensuring future development aligns with Moxee's housing plans. These meetings provided essential local insight and ensured that the land capacity assumptions used in the analysis reflect the City's current conditions and future growth objectives.

Major Rezone and Plan Amendment Review Criteria

County staff have had, and will continue to have, collaborative discussions with the City of Moxee regarding any potential changes to future land use designations or zoning within Moxee's unincorporated UGA. Should any rezones be proposed, the criteria outlined in this section would need to be carefully evaluated as part of that ongoing coordination.

Amendments to the zoning map that are contingent upon legislative approval of a comprehensive plan amendment are deemed to be legislative and shall be considered major rezones that are subject to the procedures outlined in YCC Chapter [16B.10](#).

(1) The following criteria shall be considered in any review and approval of amendments to Yakima County Comprehensive Plan Policy Plan Maps:

(a) The proposed amendment is consistent with the Growth Management Act and requirements, the Yakima County Comprehensive Plan, the Yakima Urban Area Comprehensive Plan and applicable sub-area plans, applicable city comprehensive

- 1 *plans, applicable capital facilities plans and official population growth forecasts and*
2 *allocations;*
- 3 *(b) The site is more consistent with the criteria for the proposed map designation than it is*
4 *with the criteria for the existing map designation;*
- 5 *(c) The map amendment or site is suitable for the proposed designation and there is a lack of*
6 *appropriately designated alternative sites within the vicinity;*
- 7 *(d) For a map amendment, substantial evidence or a special study has been furnished that*
8 *compels a finding that the proposed designation is more consistent with comprehensive*
9 *plan policies than the current designation;*
- 10 *(e) To change a resource designation, the policy plan map amendment must be found to do*
11 *one of the following:*
- 12 *(i) Respond to a substantial change in conditions beyond the property owner's*
13 *control applicable to the area within which the subject property lies; or*
- 14 *(ii) Better implement applicable comprehensive plan policies than the current map*
15 *designation; or*
- 16 *(iii) Correct an obvious mapping error; or*
- 17 *(iv) Address an identified deficiency in the plan. In the case of Resource Lands, the*
18 *applicable de-designation criteria in the mapping criteria portion of the land use*
19 *subchapter of Yakima County Comprehensive Plan, Volume I, Chapter I, shall be*
20 *followed. If the result of the analysis shows that the applicable de-designation*
21 *criteria has been met, then it will be considered conclusive evidence that one of*
22 *the four criteria in paragraph (e) has been met. The de-designation criteria are*
23 *not intended for and shall not be applicable when resource lands are proposed*
24 *for re-designation to another Economic Resource land use designation;*
- 25 *(f) A full range of necessary public facilities and services can be adequately provided in an*
26 *efficient and timely manner to serve the proposed designation. Such services may include*
27 *water, sewage, storm drainage, transportation, fire protection and schools;*
- 28 *(g) The proposed policy plan map amendment will not prematurely cause the need for nor*
29 *increase the pressure for additional policy plan map amendments in the surrounding*
30 *area.*

31

32 Findings: Any zoning map amendments will be processed as a major rezone in accordance with
33 YCC Chapter 16B.10, and all applicable review criteria, including consistency with the Growth
34 Management Act and the Comprehensive Plan, will be fully addressed during the amendment
35 process.

- 36
- 37 *(2) The following criteria shall be considered in any review and approval of changes to Urban*
38 *Growth Area (UGA) boundaries:*

39 *(a) Land Supply:*

- 40 *(i) The amount of buildable land suitable for residential and local commercial*
41 *development within the incorporated and the unincorporated portions of the*
42 *Urban Growth Areas will accommodate the adopted population allocation and*
43 *density targets;*
- 44 *(ii) The amount of buildable land suitable for purposes other than residential and*
45 *local commercial development within the incorporated and the unincorporated*
46 *portions of the Urban Growth Areas will accommodate the adopted forecasted*
47 *urban development density targets within the succeeding twenty-year period;*
- 48 *(iii) The Planning Division will use the definition of buildable land in YCC*
49 *[16B.02.045](#), the criteria established in RCW [36.70A.110](#) and .130 and applicable*
50 *criteria in the Comprehensive Plan and development regulations;*

- 1 (iv) *The Urban Growth Area boundary incorporates the amount of land determined to*
2 *be appropriate by the County to support the population density targets;*
3 (b) *Utilities and services:*
4 (i) *The provision of urban services for the Urban Growth Area is prescribed, and*
5 *funding responsibilities delineated, in conformity with the comprehensive plan,*
6 *including applicable capital facilities, utilities, and transportation elements, of*
7 *the municipality;*
8 (ii) *Designated Ag. resource lands, except for mineral resource lands that will be*
9 *reclaimed for urban uses, may not be included within the UGA unless it is shown*
10 *that there are no practicable alternatives, and the lands meet the de-designation*
11 *criteria set forth in the comprehensive plan.*
12

13 Findings: Any proposal to amend the Urban Growth Area boundary will be reviewed in
14 accordance with YCC Chapter 16B.10 and applicable state and local requirements. All criteria
15 related to land supply, urban service provision, and resource land protections will be addressed to
16 ensure consistency with the Growth Management Act, the County Comprehensive Plan, and
17 supporting capital facility plans. In accordance with Countywide Planning Policy A.3.11, the
18 County and City will identify capital improvement requirements to ensure urban services can be
19 provided within the forecast period. Any expansion of the UGA will also trigger require
20 necessary updates to the Capital Facilities, Utilities, and Transportation Elements of the
21 Comprehensive Plan to demonstrate availability of services to the proposed area.
22

- 23 (3) *Land added to or removed from Urban Growth Areas shall be given appropriate policy plan map*
24 *designation and zoning by Yakima County, consistent with adopted comprehensive plan(s).*
25

26 Findings: Any land added to or removed from an Urban Growth Area as part of this amendment
27 will be assigned appropriate Comprehensive Plan map designations and zoning consistent with
28 Yakima County's adopted Comprehensive Plan and applicable city plans.
29

- 30 (4) *Cumulative impacts of all plan amendments, including those approved since the original*
31 *adoption of the plan, shall be considered in the evaluation of proposed plan amendments.*
32

33 Findings: The cumulative impacts of the proposed amendment, along with those of previously
34 approved plan amendments since the original adoption of the Comprehensive Plan, will be
35 evaluated to ensure consistency with countywide planning goals and to avoid adverse impacts on
36 land supply, public services, and infrastructure capacity. The cumulative impacts will be
37 addressed in the Planning Commission's findings.
38

- 39 (5) *Plan policy and other text amendments including capital facilities plans must be consistent with*
40 *the GMA, SMA, CWPP, other comprehensive plan goals and policies, and, where applicable, city*
41 *comprehensive plans and adopted inter-local agreements.*
42

43 Findings: This criterion is not applicable. Any modifications to Moxee's Urban Growth Area
44 would be addressed through map amendments rather than through changes to comprehensive
45 plan policies or text.
46

- 47 (6) *Prior to forwarding a proposed development regulation text amendment to the Planning*
48 *Commission for its docketing consideration, the Administrative Official must make a*
49 *determination that the proposed amendment is consistent with the GMA, CWPP, other*
50 *comprehensive plan goals and policies, and, where applicable, city comprehensive plans and*
51 *adopted inter-local agreements.*

Findings: This criterion is not applicable. Any modifications to Moxee's Urban Growth Area would be addressed through map amendments rather than through changes to comprehensive plan policies or text.

Conclusion(s)

1. The County's LCA for Moxee calculates a surplus of 301 acres of vacant residentially zoned land, a surplus of 4 acres of vacant commercially zoned land, and a deficit of 36 acres of vacant land for community facilities and all associated streets within the current UGA for all non-industrial uses through 2046. Overall, this is a surplus of 251 acres over what is needed, which can accommodate Moxee's growth for the next 39 years (from 2024).
2. This Land Capacity Analysis finds that Moxee's current city limits would accommodate the City's growth for 18 years (from 2024) and that the UGA could accommodate the City's growth for 39 years (from 2024). Because the GMA requires the UGA to accommodate growth for only 22 years (i.e., from 2024 to 2046), the UGA should not be expanded but could be reduced in size.

Recommendation(s)

1. County Planning staff recommends no additions or removals to the City of Moxee's UGA at this time, as staff aims to continue examining and engaging with the City on areas to remove from the UGA when more time can be spent on public engagement and planning for water, sewers, and streets.
2. County Planning staff recommends no changes to the comprehensive plan designations or zoning in Moxee's unincorporated UGA.

Attachments:

1. UGA LCA (spreadsheet)
2. County's population projection for Moxee
3. *Horizon 2040*'s description of the analytical process for the UGA LCA
4. LCA for City (map) Forthcoming

		Units	Moxee
1 - Population and Households Analysis			
a	2046 population for City (County's preferred alternative medium projection)	people	9,076
b	2024 population in City (OFM's April 1 estimate)	people	4,820
c	City's projected population increase, 2024-46 (a - b)	people	4,256
d	City's average household size (2020 Census - 5 Year Estimates) Table S1101	people per household	3.83
e	Additional households projected for City, 2024-46 (c ÷ d)	households	1,111
2 - Future Residential Land Need			
f	Desired average density of future housing, 2024-46 (5.1 dwelling units per acre)	sq. ft. per dwelling unit	8,500
g	Land needed for future housing, 2024-46 (e • f ÷ 43,560 sq. ft. per acre)	acres	217
3 - Future Commercial & Retail Land Need			
h	Current developed commercial & retail land in City (from GIS analysis)	acres	17
i	Current developed commercial & retail land in City per person (h ÷ b)	acres per person	0.0035
j	Land needed for future commercial & retail, 2024-46 (i • c)	acres	15
4 - Future Community Facilities* Land Need			
k	Current developed community facilities land in City (from GIS analysis)	acres	52
m	Current developed community facilities land in City per person (k ÷ b)	acres per person	0.0108
n	Land needed for future community facilities, 2024-46 (m • c)	acres	46
5 - Future Streets Land Need			
p	Subtotal of land needed for future residential, commercial & retail, and community facilities 2024-46 (g + j + n)	acres	278
q	Land needed for future streets (p • 15%)	acres	42
6 - Land Capacity Analysis			
<u>Residentially-zoned capacity</u>			
r	Current vacant residentially-zoned land in City, excluding floodplains (from GIS analysis)	acres	232
s	(plus) Current vacant residentially-zoned land in City, only including floodplains (from GIS analysis)	acres	0
t	= Current vacant residentially-zoned land in City (r + (s/5.1))	acres	232
u	(minus) Land needed for future housing and associated streets, 2024-46 (-g • 115%)	acres	(250)
v	= Surplus (Deficit) of vacant residentially-zoned land in City (t + u)	acres	(18)
w	Current vacant residentially-zoned land outside City, excluding floodplains (from GIS analysis)	acres	283
x	(plus) Current vacant residentially-zoned land outside City, only in floodplains (from GIS analysis)	acres	91
y	= Current vacant residentially-zoned land outside City (w + (x/5.1))	acres	301
z	(plus) Surplus (Deficit) of vacant residentially-zoned land in City (v)	acres	(18)
aa	= Surplus (Deficit) of vacant residentially-zoned land in UGA in 2046 (y + z)	acres	283
<u>Commercially-zoned capacity</u>			
bb	Current vacant commercially-zoned land in City (from GIS analysis)	acres	6
cc	(minus) Land needed for future commercial & retail and associated streets, 2024-46 (-j • 115%)	acres	(17)
dd	= Surplus (Deficit) of vacant commercially-zoned land in City (bb + cc)	acres	(11)
ee	Current vacant commercially-zoned land outside City (from GIS analysis)	acres	15
ff	(plus) Surplus (Deficit) of vacant commercially-zoned land in City in 2046 (dd)	acres	(11)
gg	= Surplus (Deficit) of vacant commercially-zoned land in UGA in 2046 (ee + ff)	acres	4
<u>Community Facilities capacity</u>			
hh	Current vacant community facilities land in City (from GIS analysis)	acres	17
ii	(minus) Land needed for future community facilities and associated streets, 2024-46 (-n • 115%)	acres	(53)
jj	= Surplus (Deficit) of vacant community facilities in City (hh + ii)	acres	(36)
kk	Current vacant community facilities land outside City (from GIS analysis)	acres	0
mm	(plus) Surplus (Deficit) of vacant community facilities land in City in 2046 (jj)	acres	(36)
nn	= Surplus (Deficit) of vacant community facilities land in UGA in 2046 (kk + mm)	acres	(36)
<u>Capacity for growth in City (excluding Industrial growth)</u>			
pp	Surplus (Deficit) of vacant land for residential, commercial, community facilities, & streets (v + dd + jj)	acres	(65)
qq	Computed Market Choice Factor in City (MCF)**	%	-20%
rr	Years of growth available in City in 2024 ((qq + 1) • 22)	years	18
<u>Capacity for growth outside City (excluding Industrial growth)</u>			
ss	Years of growth available outside City in 2024 (vv - rr)	years	21
<u>Capacity for growth in UGA (excluding Industrial growth)</u>			
tt	Surplus (Deficit) of vacant land for residential, commercial, community facilities, & streets (aa + gg + nn)	acres	251
uu	Computed Market Choice Factor in UGA (MCF)***	%	78%
vv	Years of growth available in UGA in 2024 ((rr + 1) • 22)	years	39
7 - Future Industrial Land Need			
ww	Current developed industrially-zoned land in City (from GIS analysis)	acres	214
xx	Current developed industrially-zoned land outside City (from GIS analysis)	acres	0
yy	Current vacant industrially-zoned land in City (from GIS analysis)	acres	489
zz	Current vacant industrially-zoned land outside City (from GIS analysis)	acres	0
aaa	Industrial acres to add to UGA (based on City's economic development strategy) (from GIS analysis)	acres	0
bbb	Industrial acres to remove from UGA (based on City's economic development strategy) (from GIS analysis)	acres	0

*Community Facilities such as parks, schools, libraries, city halls, fire stations, churches

** (vacant acres in City + needed acres) - 1 = (r + x + dd) + (-s - y - ee) - 1

*** (vacant acres in UGA + needed acres) - 1 = (r + u + x + aa + dd + gg) + (-s - y - ee) - 1

Note: numbers in parentheses are negative

Table 8. Cities, Towns, & County Consensus Population Projections and Allocations, 2025-2046

	2020 Census	Cities, Towns, & County Consensus Annual Growth Rates (2025-2046) ⁴	2021 OFM April 1 Estimate	2022 OFM April 1 Estimate	2023 OFM April 1 Estimate	2024 OFM April 1 Estimate	2025	2026	2027	2028	2029	2030	2031	2032
Yakima County (Preferred Alt.)	256,728	0.56%	258,100	259,950	261,200	263,200	264,662	266,133	267,611	269,098	270,593	272,097	273,608	275,129
Unincorporated	88,147		88,240	88,955	89,155	89,635	89,742	89,840	89,931	90,013	90,087	90,153	90,209	90,257
Incorporated	168,581		169,860	170,995	172,045	173,565	174,921	176,293	177,680	179,085	180,506	181,944	183,399	184,872
Grandview	10,910	1.00%	10,960	11,020	11,250	11,680	11,797	11,915	12,034	12,154	12,276	12,399	12,523	12,648
Granger	3,624	1.21%	3,690	3,740	3,775	3,815	3,861	3,908	3,956	4,004	4,052	4,101	4,151	4,202
Harrah	585	0.25%	580	580	580	585	586	588	589	591	592	594	595	597
Mabton	1,959	-1.21%	1,975	1,975	1,965	1,965	1,941	1,918	1,895	1,872	1,849	1,827	1,805	1,783
Moxee	4,326	2.92%	4,405	4,665	4,785	4,820	4,961	5,105	5,254	5,408	5,566	5,728	5,895	6,067
Naches	1,084	1.98%	1,110	1,125	1,120	1,125	1,147	1,170	1,193	1,217	1,241	1,265	1,290	1,316
Selah	8,153	1.75%	8,235	8,365	8,450	8,620	8,771	8,924	9,081	9,239	9,401	9,566	9,733	9,903
Sunnyside	16,375	0.80%	16,400	16,500	16,530	16,570	16,703	16,836	16,971	17,107	17,243	17,381	17,520	17,661
Tieton	1,389	2.50%	1,430	1,505	1,545	1,600	1,640	1,681	1,723	1,766	1,810	1,856	1,902	1,949
Toppenish	8,854	0.17%	8,870	8,870	8,900	8,915	8,930	8,945	8,961	8,976	8,991	9,006	9,022	9,037
Union Gap	6,568	1.00%	6,595	6,640	6,660	6,660	6,727	6,794	6,862	6,930	7,000	7,070	7,140	7,212
Wapato	4,607	0.25%	4,610	4,615	4,620	4,625	4,637	4,648	4,660	4,671	4,683	4,695	4,707	4,718
Yakima	96,968	0.62%	97,810	98,200	98,650	99,370	99,985	100,604	101,227	101,853	102,484	103,118	103,756	104,398
Zillah	3,179	0.63%	3,190	3,195	3,215	3,215	3,235	3,256	3,276	3,297	3,318	3,339	3,360	3,381

⁴ These annual growth rates are applied to the 2024 population figures and to each subsequent year.

Table 8 (cont.). Cities, Towns, & County Consensus Population Projections and Allocations, 2025-2046														
	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
Yakima County (Preferred Alt.)	276,657	278,194	279,740	281,294	282,857	284,428	286,009	287,598	289,196	290,802	292,418	294,043	295,676	297,319
Unincorporated	90,295	90,323	90,341	90,350	90,348	90,335	90,311	90,276	90,229	90,171	90,100	90,017	89,921	89,812
Incorporated	186,363	187,871	189,398	190,944	192,509	194,094	195,698	197,322	198,966	200,632	202,318	204,026	205,756	207,508
Grandview	12,774	12,902	13,031	13,161	13,293	13,426	13,560	13,696	13,833	13,971	14,111	14,252	14,394	14,538
Granger	4,253	4,304	4,356	4,409	4,463	4,517	4,572	4,627	4,684	4,740	4,798	4,856	4,915	4,975
Harrah	598	600	601	603	604	606	607	609	610	612	613	615	616	618
Mabton	1,761	1,740	1,719	1,698	1,678	1,657	1,637	1,618	1,598	1,579	1,560	1,541	1,522	1,504
Moxee	6,244	6,426	6,614	6,807	7,006	7,210	7,420	7,637	7,860	8,089	8,325	8,568	8,818	9,076
Naches	1,342	1,369	1,396	1,423	1,452	1,480	1,510	1,540	1,570	1,601	1,633	1,665	1,698	1,732
Selah	10,077	10,253	10,432	10,615	10,801	10,990	11,182	11,378	11,577	11,779	11,986	12,195	12,409	12,626
Sunnyside	17,802	17,944	18,088	18,233	18,378	18,526	18,674	18,823	18,974	19,125	19,278	19,433	19,588	19,745
Tieton	1,998	2,048	2,099	2,152	2,206	2,261	2,317	2,375	2,435	2,495	2,558	2,622	2,687	2,755
Toppenish	9,052	9,068	9,083	9,099	9,114	9,130	9,145	9,161	9,176	9,192	9,207	9,223	9,239	9,254
Union Gap	7,284	7,357	7,430	7,505	7,580	7,655	7,732	7,809	7,887	7,966	8,046	8,126	8,208	8,290
Wapato	4,730	4,742	4,754	4,766	4,778	4,790	4,802	4,814	4,826	4,838	4,850	4,862	4,874	4,886
Yakima	105,044	105,695	106,349	107,007	107,669	108,336	109,006	109,681	110,360	111,043	111,730	112,422	113,118	113,818
Zillah	3,402	3,424	3,445	3,467	3,489	3,511	3,533	3,555	3,577	3,600	3,623	3,646	3,669	3,692

are either available, or could be provided without excessive public cost. Urban governmental services typically include water and sewer systems, street cleaning services, fire and police protection services, and public transit services. Based on their respective comprehensive, subarea or neighborhood plans, cities and other service providers must be able to demonstrate both ability and willingness to supply designated urban areas with these services within the twenty-year planning period. The Growth Management Act, RCW 58.17

5.8.3.1 Urban Growth Area Designation Process

GMA requires counties to designate Urban Growth Areas (UGA) where development is encouraged and outside which growth can occur only if it is not urban in nature. At a minimum, each city within the County must be included within a UGA. Additionally, a UGA may include land outside of a city but only if it is already characterized by urban growth. Lands not characterized by, or next to, urban growth may be included within a UGA only if the need for it is shown based on projected growth. Perhaps the most important aspect of designating UGA boundaries is the demonstration by cities and towns that they may feasibly serve these lands with urban level services over a twenty-year period.

As required by the GMA, and consistent with desired future settlement patterns, most new housing and jobs will be created within Yakima County's fourteen UGAs. Likewise, most investment in public facilities and services will occur here to ensure the most cost-efficient use and operation of necessary utility systems.

In unincorporated areas within UGA boundaries, **Horizon 2040** establishes several urban land use designations to implement the Growth Management Act's Planning Goal 1: "Encourage development in urban areas where adequate public facilities and services exist or can be provided in an efficient manner." In determining areas to be set aside for future urbanization, the County and cities mutually endorsed a County-Wide Planning Policy. It states that areas designated for urban growth should be determined by preferred development patterns, residential densities, and the capacity and willingness of the community to provide urban governmental services.

UGAs are intended to include land that is characterized by urban growth or will be needed for urbanization, consistent with forecasted population growth and the ability to extend urban services. UGA boundaries are intended to establish the areas within which incorporated cities and towns may grow and annex over the next twenty years. Yakima County's UGAs are also intended to implement Washington Administrative Code, which states that "the physical area within which that jurisdiction's vision of urban development can be realized over the next twenty years." The process for which Urban Growth Areas are designated is outlined below:

- **Population Allocation**

Development of population projections for the Growth Management Act (GMA) is a shared responsibility. As directed by state statute, the Washington State Office of Financial Management (OFM) prepares a reasonable range of possible population growth for Washington counties participating in GMA. Yakima County, also by law, is responsible for selecting a 20-year GMA planning target from within the range of high and low

prepared by OFM. The County must select the county planning target; then the population planning targets for each city or town, and unincorporated areas. Once the population is allocated the projections are used by each jurisdiction as part of the GMA comprehensive planning update and in conjunction with the Land Capacity Analysis.

- **Land Capacity Analysis**

The purpose of the Land Capacity Analysis is to determine how much land, if any, is needed beyond the incorporated limits of each city and town to accommodate the urban growth and development that is projected to occur during the 20-year planning horizon. It begins with determining the existing supply of existing vacant and partially vacant lands zoned for future development that can accommodate additional growth. In evaluating the quantity of land necessary for urban growth, the following analytical process should be followed:

1. Determine how much housing is necessary for 20 years of growth.

Subtract the City's current year population from the projected 20 year population figure to determine the additional number that represents 20 years of growth. Based on a city's average household size, calculate the number of additional dwelling units to allow for.

2. Determine the necessary residential acreage.

Determine the desired and appropriate housing densities in collaboration with the cities. Calculate how many acres are needed to accommodate the number of new dwelling units based on the desired and appropriate densities. A percentage can be added to allow for market choice and location preference.

3. Determine the necessary commercial and retail acreage.

Divide the existing commercial and retail acreage by the current population to arrive at a commercial/retail acreage per capita figure. Multiply this per capita number by the additional population identified in Step #1. This will give you the amount of additional commercial/retail acreage needed. A percentage can be added to allow for market choice and location preference.

4. Determine the net amount of total additional acreage needed for non-industrial uses.

Determine the currently available undeveloped acreage within the existing UGA for both residential and commercial/retail. Subtract these figures from the acreage identified in Steps # 2 and #3 to determine if acreage is needed for UGA expansion for residential or commercial/retail. Factor in additional acreage needed for open space, critical areas, parks, and other public facilities such as schools and libraries based on appropriate level of service standards. Add appropriate acreage to allow for streets.

5. Identify areas needed for Industrial zoning.

Industrial zoning is based on the city's economic development strategy and is not contingent on future population.

6. Identify areas that are desired and appropriate for expansion.

Identify the areas desired for UGA expansion based on the amount of acreage needed as identified in Steps #4 and #5. Ensure the requisite acreage is accurately allocated to residential, commercial/retail, and industrial. Areas desired for expansion should avoid Agricultural and Mineral Resource areas if possible. If Resource areas are unavoidable, justification for encroaching into the Resource area will be required.

7. Capital Facilities Plan.

Approval of any UGA expansion by Yakima County will be subject to adoption of an adequate and appropriate Capital Facilities Plan by the respective elected legislative body to ensure necessary facilities and services will be provided to the entire expanded UGA within the 20 year period. All capital and public facilities needed for future growth must be included in the Capital Facilities Plan. These needed facilities may be identified in comprehensive plan elements, in the jurisdiction's functional plans, or in the plans of other entities that provide services or facilities.

• **Mapping Criteria for New UGA areas:**

1. Lands contiguous with other properties that are, or should be, included in an urban growth area.
2. Lands that take advantage of physical features to help provide a clear separation between urban and rural areas. No physical barriers (e.g., rivers, railroads, irrigation ditches, freeways) are present that would make the area difficult to serve at an adopted level of service standard.
3. The County and the respective city or town have mutually determined that urban services will be present within the 20-year time frame of the plan, as illustrated within the city's capital facilities plan.
4. Lands with ready access to urban services (e.g., major roads, schools, public safety, water or sewer utilities), or lands needed to achieve local economic development goals / plan policies and where there is a plan and financial strategy for putting these services in place in accordance with the jurisdiction's comprehensive, subarea or neighborhood plan.
5. Lands needed for public capital facilities and utilities.
6. Lands that do not have long term commercial significance for commercial agricultural or mineral production and should be able to develop without having a detrimental effect on nearby resource lands outside the Urban Growth Area; or, lands needed for urban growth and it has been conclusively demonstrated that significantly better alternatives to the development of productive resource lands are not available.

5.8.3.2 Urban Land Use Categories

The Urban land use categories for the unincorporated UGAs are determined in a coordinated process between the County and each of the fourteen cities and towns during the Growth

5.8.5 Urban Land Lands – Future Land Use Needs

To ensure Yakima County has not restricted the supply of urban land through its population allocations, the OFM 2040 medium projection of 318,494 is used throughout the entire Land Use Element to calculate the adequacy of the available land supply. If recent trends continue, approximately 63 percent of this figure, or 200,511 people, will be living in the cities or towns by the year 2040. Based on these same trends, approximately 11 percent of the population in the year 2040, or 38,359 people, will be living within the unincorporated UGAs. If these figures hold, the total urban population in 2040 will equal 238,870. Once the population has been projected the Growth Management Act requires Yakima County to determine the necessary amount of land needed for future growth. The Land Capacity Analysis (LCA), is the tool for which Yakima County sizes UGA boundaries.

5.8.5.1 Countywide Urban Growth Area Land Capacity Analysis

The Land Capacity Analysis (LCA), as outlined in subsection 5.8.3.1 above, is a quantitative estimate of how much vacant land (i.e., land available for future urban development) a city (and unincorporated UGA) currently has and will require as it grows over the succeeding 20-year period. It begins with consultation between Yakima County and each of its cities and towns to select a population growth projection from a range of population growth projections provided by OFM. The population projection, together with a county employment growth forecast, is then allocated primarily to UGAs, to assist in sizing UGAs to accommodate future urban growth. The LCA quantifies the amount of vacant land needed for each city and town's growth then compares those results to the amount of vacant land currently within the UGA. This will determine if there is a surplus or a deficit of vacant land for future growth to year 2040. A more detailed description of the LCA is outlined in the example below:

- Quantity of Land Calculations for Non-Industrial Uses

1. Population and Households Analysis: Using a city's projected 2015-2040 population growth, this analysis estimates the number of additional households that will be added to the city's population by the year 2040. An example city is described below:

2040 population forecast for city (County Planning)	Example 1000 people
2015 population in city (OFM's April 1 estimate)	Example 500 people
Population increase in city 2015-2040	Example 500 people
<u>Average household size in city (2010 Census)</u>	<u>Example 2.87 people</u>
Additional households in city 2015-2040 ($500 \div 2.87$)	Example 174 households

2. Future Residential Land Need: The acreage needed for future residential growth through 2040 is calculated by assuming an average future density of 8,500 sq. ft. of land for each household (i.e., 5.1 dwelling units per acre) and multiplying this amount by the number of projected new future households:

$$8,500 \text{ sq. ft.} \times 174 \text{ households} = 1,479,000 \text{ sq. ft.} / 43,560 \text{ sq. ft. (1 acre)} = 34 \text{ acres}$$

3. Future Commercial & Retail Land Need: The acreage needed for future commercial and retail growth through 2040 is calculated by multiplying the projected population increase by the current per capita acreage of developed commercially-zoned lands within the city after subtracting the acreage classified for community facilities (as determined by GIS analysis):

$$500 \text{ people} \times 0.0169 \text{ acres per capita} = 8 \text{ Acres}$$

4. Future Community Facilities Land Need: The acreage needed for future community facilities growth through 2040 is calculated by multiplying the projected population increase by the current per capita acreage of developed community facilities land within the city (as determined by GIS analysis):

$$500 \text{ people} \times 0.0494 \text{ acres per capita} = 25 \text{ Acres}$$

5. Future Streets Land Need: The acreage needed for future rights-of-way to accommodate streets and utilities through 2040 is calculated by multiplying the acreage needed for future residential, commercial & retail, and community facilities by 15%:

Residential acreage needed	34 Acres +	5.1 Acres for streets
+ Commercial/retail acreage needed	8 Acres +	1.2 Acres for streets
+ Community facilities acreage needed	<u>25 Acres +</u>	<u>3.75 Acres for streets</u>
= Subtotal of total streets acreage	(67 Acres x 0.15) = 10.05 Acres for streets	

6. Land Capacity Analysis for Non-Industrial Uses: Next, the needs for land identified above are compared with the amount of existing vacant land to determine if there is currently a surplus or a deficit of vacant land within the City and the UGA to accommodate projected growth through 2040.

Total amount of vacant land needed in UGA for future growth (excluding industrial growth): Adding the needed acres from the categories above results (including streets) in the total acreage calculated below:

Acres needed for future residential uses	39.1 Acres
+Acres needed for future commercial & retail uses	9.2 Acres
+Acres needed for future community facilities	<u>28.75 Acres</u>
=Total vacant acres needed for future non-industrial uses	77.05 Acres

7. Current Vacant Land Analysis:

Yakima County's Division of Geographic Information Services (GIS) determines the current acreage of developed residential, commercial & retail, and community facilities. GIS also determines the acreage of current vacant land and partially vacant land in each zoning district. In this example city, summaries of whether each zoning

group has a surplus or a deficit of vacant land to accommodate the projected growth through 2040 are listed in Table below:

Table 5.8.5.1-1 Example Land Capacity Analyses (LCA) Summary – Excluding Industrially-zoned Land					
Zoning Group	Total Acres Within City Limits	Outside City Limits & Within Current UGA	Total: Within City Limits and Within Current UGA	Total Acres needed from Step 6 above	Determination of Surplus or Deficit
Residential	Vacant: 13 acres	Vacant: 51 acres	Vacant: 64 Acres	39.1 acres	<i>Surplus: 24.9 acres</i>
Commercial	Vacant: 18 acres	Vacant: 34 acres	Vacant: 52 Acres	9.2 acres	<i>Surplus: 42.8 acres</i>
Community Facilities	Vacant: 0 acres	Vacant: 0 acres	Vacant: 0 Acres	28.75 acres	<i>Deficit: 28.75 acres</i>
Total of above Zoning Groups	Vacant: 31 acres	Vacant: 85 acres	Vacant: 116 Acres	77.05 acres	<i>Surplus: 38.95 acres</i>

Based on the example shown in the Table above, there is roughly a total of 116 vacant acres inside the UGA and based on the LCA in steps 1 through 6 the example city needed roughly 77.05 acres for next twenty plus years of growth, which means there is a surplus of 38.95 acres available in the current UGA to accommodate growth through 2040.

8. Computed Market Choice Factor (MCF) and “Years of Growth” (excluding Industrial growth):

One way of quantifying the surplus (or deficit) of vacant land in a city and within its UGA is to express the surplus (or deficit) as a percentage of the amount of vacant land that is needed for growth over the 25-year period from 2015 to 2040. In our example above, the city has 116 vacant acres and needs 77.05 vacant acres for future growth, it has 51% more vacant land than needed for growth. So the Computed MCF is 51%, as calculated below:

$$[(\text{acres currently vacant}) \div (\text{acres needed for future growth})] - 1.00 = \text{Computed MCF \%}$$

Example: $[116 \text{ acres} \div 77.05 \text{ acres}] - 1.00 = 0.51 = 51\%$

The example city has a 51% MCF, which means that there is 51% more vacant land than needed for growth over the twenty-five year period from 2015 to 2040. In Yakima County, the MCF is set by policy within **Horizon 2040** at 10%. An additional way of quantifying the surplus (or deficit) of vacant land available for future growth is to express the surplus (or deficit) as the number of years it would take to develop all the vacant land at the projected future growth rate. The calculation below outlines how to determine the years of growth for our example city.

$$(\text{Computed MCF} + 1) \times 25 \text{ years} = \text{years of growth available}$$

Example 1: $(51\% \text{ MCF} + 1) \times 25 \text{ years} = 37.75 \text{ years of growth available}$

Table 5.8.5.1-2 Example MCF and Years of Growth	
	Within the Current UGA
	Vacant: 116 acres
Market Choice Factor	51%
Years of Growth	37.75 years

The figures for both the “MCF” and “years of growth” metrics for the example city show that the MCF of 51% exceeds the plan policy standard of 10% and the years of growth of 37.75 also exceed the GMA mandate of twenty years. Thus, the example city does not need to have its UGA boundary expanded and more importantly, the current UGA appears large enough to accommodate the next twenty plus years of growth.

9. Future Industrial Land Needs:

As provided by the analytical process outlined in the “Urban Lands” section in the Land Use Element of Yakima County’s Comprehensive Plan - **Horizon 2040** the amount of land needed for future industrial uses “is based on the city’s economic development strategy and is not contingent on future population.”

5.8.5.2 Countywide Urban Growth Area Land Capacity Analysis Results

The Growth Management Act (GMA) requires Yakima County to review the UGAs of each of the County’s fourteen cities and towns as part of the 2017 period comprehensive plan update. GMA requires this update once every eight years. In coordination with those cities and towns, the County conducted a Land Capacity Analysis (LCA) to determine the amount of urban lands needed for twenty years of growth. The land needed to accommodate that growth is broken down into four categories: Residential, Commercial/Retail, Community Facilities and Streets. The estimated amount of land needed to accommodate future growth is outlined in Table 5.8.5.2-1 below.

Table 5.8.5.2-1 Land Capacity Analysis (LCA) – Land Needed For Future Growth							
Yakima Cities	Projected Pop Increase From 2015-2040	Person Per Household (Census)	Number Households needed	Land Needed For Residential (Acres)	Land Needed For Commercial & Retail (Acres)	Land Needed For Community Facilities (Acres)	Land Needed For Streets (Acres)
Grandview	2,289	2.97	794	155	19	245	63
Granger	1,923	4.14	464	87	10	62	24
Harrah	123	3.53	35	7	1	4	2
Mabton	339	4.31	79	15	2	7	4
Moxee	3,870	3.26	1,187	233	18	74	49
Naches	254	2.51	101	20	13	30	9
Selah	2,410	2.64	913	178	29	115	48
Sunnyside	3,117	3.60	866	169	82	107	54
Tieton	451	3.33	135	26	3	3	5
Toppenish	990	3.33	297	58	14	21	14
Union Gap	1,001	2.90	345	67	43	32	21
Wapato	677	3.88	174	36	6	23	10
Yakima	17,167	2.68	6,406	1,250	297	271	273
Zillah	1,876	2.87	654	128	32	93	38

Source: Yakima County GIS – UGA Analysis 2015-2016