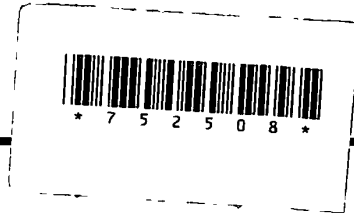


**Schroader, Kathy**



**From:** Orjiako, Oliver  
**Sent:** Thursday, December 17, 2015 2:46 PM  
**To:** Euler, Gordon, Alvarez, Jose, Anderson, Colete, Albrecht, Gary, Hermen, Matt, Kamp, Jacqueline, Lebow, Laurie, Lumbantobing, Sharon, Wiser, Sonja  
**Cc:** Schroader, Kathy  
**Subject:** FW: Thorpe Binder Contents

Just FYI These documents was provided to both R W Thorpe and ESA at the request of Councilor Madore on December 3, 2016

Please, Jose the only document they need is the Rural VBLM as developed by GIS Staff and to contact Ken Pearrow in your absent Thanks

---

**From:** Madore, David  
**Sent:** Thursday, December 03, 2015 1:29 PM  
**To:** Orjiako, Oliver  
**Subject:** RE: Thorpe Binder Contents

Oliver,

Thank you I noticed that Exhibits A and B were not included Please be sure that ESA receives a copy of each A word version of each is attached

Thank you,

David

---

**From:** Orjiako, Oliver  
**Sent:** Thursday, December 03, 2015 8:52 AM



Proposed Exhibits A - Exhibits B Rural Plan 2014  
Alternative and ... Planning Resum... Composition and ... Resumptions Res...

**To:** Madore, David

**Cc:** McCauley, Mark  
**Subject:** FW: Thorpe Binder Contents

Good morning Councilor

Attached, below please find the electronic scanned copy of the binder provided to Bob Thorpe and Associates yesterday All the materials are approved and existing county documents We can provide you a binder of the same if you prefer. Please, let me know if you have questions

Best,

Olivér

---

**From:** Anderson, Colete  
**Sent:** Wednesday, December 02, 2015 2:58 PM  
**To:** Orjiako, Oliver; Euler, Gordon  
**Subject:** Thorpe Binder Contents

Hi,

Attached is the electronic scanned copy of the binder for Dec. 2 meeting with Thorpe and Associates.

Colete

<< File: Thorpe-Binder\_12-2-15c pdf >>

RESOLUTION NO. 2015-11-\_\_

A RESOLUTION amending Resolution 2015-04-05 and other planning assumptions and policies relating to Clark County's comprehensive land use plan 2016 update pursuant to RCW 36.70A.

WHEREAS, the Board has diligently engaged in a thorough process involving numerous duly advertised public meetings including work session, open houses, and hearings, and;

WHEREAS, the Board took public testimony from interested parties, considered all the written and oral arguments and testimony, and considered all the comments presented to the Board, and

WHEREAS, the Board has considered and adopted an evolving set of assumptions, definitions, parameters, documents, maps, and policies based on a continually increasing body of knowledge provided by diligent research, historical records, arguments, testimony, comments, and a draft SEIS, and,

WHEREAS, these processes served to define, correct, refine, and optimize the draft assumptions and plans in order to incorporate identified improvements and to mitigate identified concerns, and,

WHEREAS, the Board at a duly advertised public hearing on November 24, 2015, finds that adoption will further the public health, safety and welfare; now therefore,

BE IT ORDERED AND RESOLVED BY THE BOARD OF COUNTY COUNCILORS OF CLARK COUNTY, STATE OF WASHINGTON AS FOLLOWS:

The Board hereby adopts choice B of Exhibit A to amend the previously adopted assumptions and policies for Clark County's comprehensive plan 2016 update

Furthermore, the Board adopts Exhibit B to document the proposed rural forecasts and planned rural capacity as significantly more conservative than the approved 2004-2024 GMA compliant Comp Plan update

Exhibit A – Planning Assumption Choices - Rev 1 09

Exhibit B – Rural Comparison of the 2004-2024 and the Proposed 2016-2035 Comp Plan Update

ADOPTED this 24th day of November, 2015.

(insert signature blocks)



## Preferred Alternative and Comp Plan Policy 2016 Comprehensive Plan Update

The Preferred Alternative starts with a foundation of Alternative 1 that is then progressively modified by the following elements with the last element taking priority and precedent over prior (lower number) elements. Related Comp Plan Update Policy is also specified as follows:

Alternative	Option Description	Planning Commission Recommendation	Preferred Alternative?
<b>Alt. 1</b>	<b>NO ACTION ALTERNATIVE</b>		
<b>1</b>	The 'No Action' alternative. This option re-adopts the current plan, planning assumptions and moves the planning horizon out to 2035.	Motion to Approve: AYE – 6 ; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
<b>Alt. 2</b>	<b>COUNTY-INITIATED ALTERNATIVE</b>		
	<b>RURAL LANDS</b>		
2.a	<b>Rural Lands.</b> Change the comp plan map legend from three comp plan designations to one Rural designation to be consistent with current comp plan-to-zoning matrix table.	Motion to Approve: AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes, see Note 2.a</b>
2.b	<b>Agriculture Lands.</b> Change the minimum lot size for parcels zoned AG-20 from 20 acres to 10 acres (AG-10).	Motion to <b>Deny</b> : AYE – 4; NAY – 2 <b>Motion Passed</b>	<b>No</b>
2.c	<b>Forest Lands.</b> Change the minimum lot size for parcels zoned FR-40 from 40 acres to 20 acres (FR-20).	Motion to Approve: AYE – 2; NAY – 4 <b>Motion Failed</b>	<b>No</b>
2.d	<b>Rural Lands.</b> For parcels zoned R-20, from 20 acres to 10 acres, in some areas.	<b>No Vote Taken</b>	<b>No</b>
2.e	<b>Rural Centers.</b> Combine rural center commercial (CR-2) and rural commercial (CR-1) into a single comp plan designation of 'rural commercial'.	Motion to Approve AYE – 5; NAY – 1 <b>Motion Passed</b>	<b>Yes</b>
2.f	<b>Urban Reserve.</b> Urban reserve (UR) becomes a true overlay. Zoning defaults to underlying zone; some parcels given R-5 zoning. UR code moved to the overlay chapter of Title 40. No change in allowable	Motion to Approve AYE – 5; NAY – 1 <b>Motion Passed</b>	<b>Yes</b>



Preferred Alternative and Comp Plan Policy  
2016 Comprehensive Plan Update

	land uses.		
	<b>URBAN LANDS</b>		
2.g	<b>Commercial Lands.</b> Combine the three commercial zones (C-2, C-3 and GC) into a single comp plan (C) designation.	Motion to Approve AYE – 5; NAY – 1 <b>Motion Passed</b>	<b>Yes</b>
2.h	<b>Public Facilities.</b> Creation of public facilities zone.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.i	<b>Urban Holding.</b> Urban holding (UH) becomes a true overlay. Zoning defaults to underlying zone. UH code moved to the overlay chapter of Title 40. No change in allowable land uses.	Motion to Approve AYE - 5; NAY – 1 <b>Motion Passed</b>	<b>Yes</b>
2.j	<b>Battle Ground UGA.</b> Changes comp plan and zoning designations to better reflect surrounding land uses.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.k	<b>Ridgefield UGA.</b> Add the Tri-Mountain Golf Course to the Ridgefield UGA retaining Parks and Open Space (P/OS) zoning and adding an Urban Holding UH-20 overlay.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.l	<b>Vancouver UGA.</b> Remove reference to the Three Creeks Special Planning Area.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.m	<b>Vancouver UGA.</b> Approve the Discovery/Fairgrounds subarea comp plan map and zoning changes.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.n	<b>Vancouver UGA.</b> Approve the Salmon Creek subarea comp plan map and zoning changes.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.o	<b>Vancouver UGA.</b> Change some parcels that have a mixed use comp plan designation to a comp plan designation that matches current zoning.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
2.p	<b>Vancouver UGA.</b> Remove UR adjacent to the Vancouver UGA and replace it with R-5 and AG-20	Motion to Approve AYE – 5; NAY – 1	<b>Yes</b>



Preferred Alternative and Comp Plan Policy  
2016 Comprehensive Plan Update

	zoning.	<b>Motion Passed</b>	
2.q	<b>Vancouver UGA.</b> Remove UH in the Fisher Swale area between Vancouver and Camas.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b> , provided that the conditions specified in the existing comp plan are satisfied.
2.r	<b>Washougal UGA.</b> Correct mapping error on parcels with city zoning inside the UGA but outside city limits.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
<b>Alt. 3</b>	<b>CITY-REQUESTED UGA EXPANSIONS</b>		
3.a	<b>Battle Ground.</b> Add 80 acres, now designated R-5, to the UGA for jobs.	Motion to Approve AYE – 6; NAY - 0 <b>Motion Passed</b>	<b>Yes</b>
3.b	<b>La Center.</b> Add 17 acres, now designated R-5, for a school site.	Motion to Approve AYE – 6; NAY – 0 <b>Motion Passed</b>	<b>Yes</b>
3.c	<b>La Center.</b> Add 56 acres, now designated AG-20, for jobs.	Motion to Approve AYE – 3; NAY – 3 – <b>TIE VOTE – No Recommendation</b>	<b>Yes</b> , provided that if challenged, La Center will provide for the defense instead of Clark County.
3.d	<b>Ridgefield.</b> Add 111 acres, now designated AG-20, for residential.	Motion to <b>Deny</b> AYE – 5; NAY -1 <b>Motion Passed</b>	<b>Yes</b> , provided that if challenged, Ridgefield will provide for the defense instead of Clark County.
3.e	<b>Washougal.</b> Add 41 acres, now designated R-5, for residential.	Motion to Approve AYE – 2; NAY – 3 ABSTENTION – 1 <b>Motion Failed</b>	<b>Yes</b>
<b>Alt. 4</b>	<b>RURAL, AGRICULTURE, AND FOREST LANDS CHANGES</b>		
4.a	<b>Rural Lands.</b> Eliminate R-10 and R-20 zones unless	Motion to <b>Deny</b>	<b>See Note 4.a</b>



Preferred Alternative and Comp Plan Policy  
2016 Comprehensive Plan Update

	publicly owned property. Create R-1 and R-2.5 zones. Maintain R-5 zone.	AYE – 5; NAY – 1 <b>Motion Passed</b>	
4.b	<b>Agriculture Lands.</b> Eliminate AG-20 zone unless publicly owned property. Create AG-5 and AG-10 zones.	Motion to <b>Deny</b> AYE – 4; NAY – 2 <b>Motion Passed</b>	<b>See Note 4.b</b>
4.c	<b>Forest Lands.</b> Add FR-10 and FR-20 zones to existing FR-40 and FR-80 zones.	Motion to Approve AYE – 2; NAY – 4 <b>Motion Failed</b>	<b>Yes, see Note 4.c</b>
4.abc	<b>Cluster Options</b>		<b>Yes, see Note 4.abc</b>
<b>OTHER RECOMMENDATIONS</b>			
4.x	A <b>Motion</b> was made for the councilor’s to allow for a process for flexibility and opportunity for land owners who continuously owned property prior to the 1994 plan to possibly divide their property. The vote was 5-1 to approve. There was discussion as to whether the effort, discussion of the process will come to the PC work session, meetings, etc.	Motion to Approve AYE – 5; NAY 1 <b>Motion Passed</b>	<b>No, see Note 4.x</b>
<b>Policy #</b>	<b>Comp Plan Update Policy</b>		
1	<b>Exhibit B - Assumptions – Choice B</b>		<b>Yes, see Policy 1</b>
2	<b>Comp Plan Update process and FSEIS</b>		<b>Yes, see Policy 2</b>

**Note 2.a:** Yes, provided that the revised Alternative 4 map is selected that, instead of proliferating significantly new 1 and 2.5 acre zoned parcels, nearly exclusively recognizes already existing 1 and 2.5 acre parcels in areas where they are the predominant parcel sizes.

**Note 4.a:** The revised Alternative 4 map is selected as the specific implementation of the policy that eliminates R-10 and R-20 zones unless publicly owned property, maintains the R-5 zone, and adds R-1 and R-2.5 zones that, instead of



## Preferred Alternative and Comp Plan Policy 2016 Comprehensive Plan Update

proliferating significantly new 1 and 2.5 acre zoned parcels, nearly exclusively recognizes already existing 1 and 2.5 acre parcels in areas where they are the predominant parcel sizes.

**Note 4.b:** The revised Alternative 4 map is selected as the specific implementation of the policy that adds AG-5 and AG-10 zones to the existing AG-20 zone.

**Note 4.c:** The revised Alternative 4 map is selected as the specific implementation of the policy that adds FR-10 and FR-20 zones to the existing FR-40 and FR-80 zones.

**Note 4.abc:** Yes. Cluster options shall be included in the Preferred Alternative for each of the rural zone categories of R, AG, and FR, as communicated by the Board throughout the Comp Plan Update process.

**Note 4.x:** No. It is not appropriate to add future general ideas / concepts to a Preferred Alternative. There is insufficient specificity for an FSEIS to analyze.

**Policy 1:** The Board selects as policy, Exhibit B and choice B of Exhibit A to be used as the specifications and criteria to be used in the FSEIS analysis. The October 8, 2015 subject matter expert letter from the Clark County Technical Advisory Committee on Septic Systems is to be included in the FSEIS to correct related out of date information published in the DSEIS.

**Policy 2:** The Board adopts the following policies and processes related to the Comp Plan:

- 2.1 The materials and information submitted for analysis by the FSEIS shall be wholly consistent with the Preferred Alternative and fully supportive of the policies selected by the Board of Clark County Councilors (Board).
- 2.2 It shall be the policy of the Board to have the option to select an alternative consultant or resource to complete the FSEIS in the event of a cost overrun or delayed delivery date.
- 2.3 The Board policy is hereby adopted to complete the FSEIS as scheduled by February 1, 2016.
- 2.4 It shall be the policy of the Board to review the FSEIS, to specify any corrections deemed necessary, and to approve the FSEIS in a public hearing before the FSEIS is considered final and submitted to state.





## Preferred Alternative and Comp Plan Policy 2016 Comprehensive Plan Update

- 2.5 Since numerous Clark County policies have changed since the existing Comp Plan was adopted, the Comp Plan shall be updated to be consistent with adopted Clark County policies. The processes necessary for the Board to specify and incorporate those policies into the Comp Plan shall be completed within the allotted time.
- 2.6 Documents not actually published by the Board or by Clark County staff shall not be posted as Comp Plan reports or plans on the Clark County website.

Clark County

2016 Comprehensive Growth Management Plan Update



CHECKING IN ON OUR FUTURE

---

## Exhibit A – Planning Assumption Choices

### Rev 1.09

---

**An Evidence Based Proposal to the Community**

**11/18/2015**

This document focuses primarily on the rural assumptions of the 2016 Comp Plan update, particularly Alternative 1 and Alternative 4. The proposal contrasts existing choice A with the proposed choice B and provides the factual basis for each. Table 1 provides the assumptions that define the methods for calculating the capacity for rural parcels to accommodate population growth. Table 2 provides the general planning assumptions for population growth, accommodating that growth, GMA considerations, and logical conclusions. The Reference Section provides relevant evidence, the historical basis, and supporting calculations for the two assumptions tables. The purpose of this document is to present the compelling need to revise the original draft assumptions with more accurate, appropriate, realistic, and evidence based assumptions and to apply the insight gained from staff, cities, citizens, the GIS database, and actual historical records to the planning methods and process. Rev 1.09 incorporates the November 18, 2015 corrected Alt-4 Choice B Rural zone total.

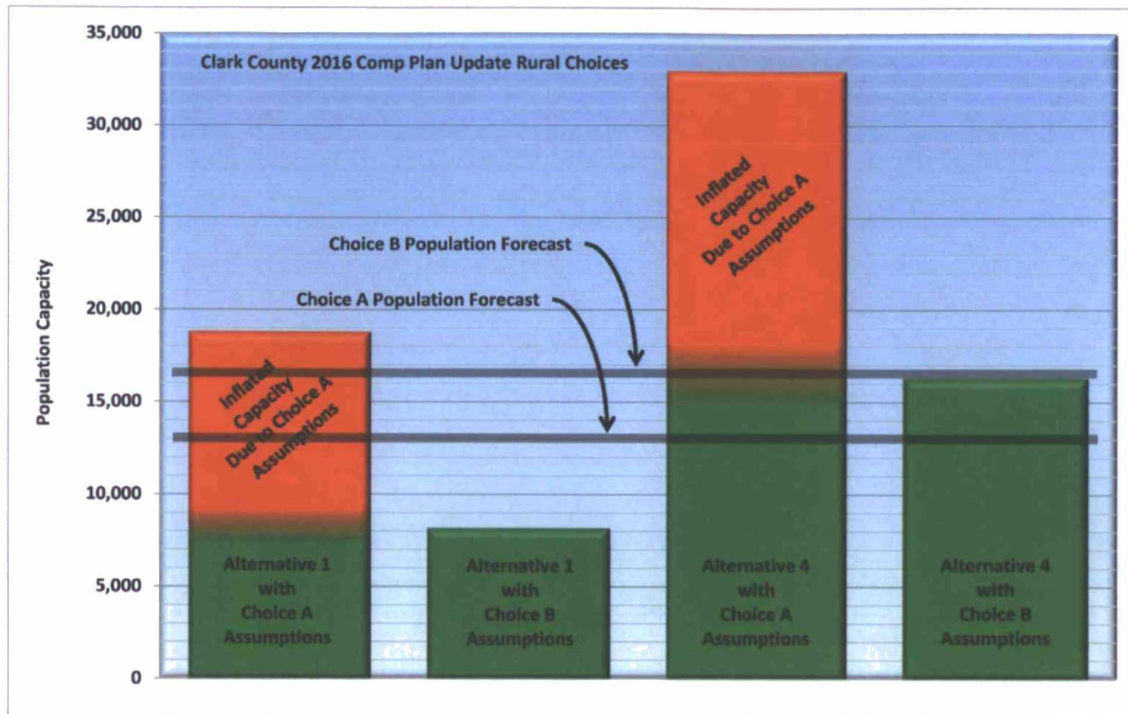
**Table 1: GIS Rural Vacant Buildable Lands Model (VBLM) Assumptions**

Ref	A (existing)	B (proposed)
1	Every possible rural parcel shall be counted as a parcel that will develop regardless of conditions that would likely make such development unlikely.	These rural VBLM assumptions should be used not to reflect what is possible, but to reasonably plan for what is likely. Parcels that cannot reasonably be expected to develop should not be counted as parcels likely to develop. Cluster development remainder parcels that are known to be prohibited from further development should not be counted as parcels likely to develop.
2	Rural parcels located in areas far from basic infrastructure with continuous long term commercial forestry operations should be counted as parcels that will develop.	Parcels located in areas far from infrastructure with long term commercial forestry operations likely to continue should not be counted as likely to develop. These assumptions are not used to authorize or to prohibit the development of individual parcels. Rather, these assumptions should only be used for tallying parcel totals for general planning information.
3	Rural parcels including 100% of environmentally constrained areas that lack sufficient area for septic systems and well clearances shall be counted as rural parcels that will develop.	Rural parcels that have less than 1 acre of environmentally unconstrained land sufficient area for septic systems and well clearances should not be counted as likely to develop.
4	History shows that about 30% of dividable parcels with homes and 10% of vacant dividable parcels do not develop further. So those deductions have been applied to urban planning totals for years. But every rural parcel shall be counted as a parcel that will divide to the maximum degree possible.	History shows that about 30% of dividable parcels with homes and 10% of vacant dividable parcels do not develop further. So those deductions have been applied to urban planning totals for years. These same deductions should be applied to rural planning totals as well.
5	As long as county code allows, lots that are up to 10% smaller than the minimum lot size should be considered as conforming lots and counted as parcels likely to develop.	Same
6	Although county code prohibits most nonconforming parcels from developing, all nonconforming parcels with 1 acre shall be counted as rural parcels that will develop.	Due to some exceptions from the norm, 10% of nonconforming parcels with at least 1 acre of unconstrained area will likely develop.
7	A 15% urban Market Factor provides some margin for the law of supply and demand to comply with the GMA requirement to provide a sufficient supply and achieve the affordable housing goal. But a 0% Market Factor shall be used for rural areas.	A 7.5% rural Market Factor should be used to provide a reasonable margin for the law of supply and demand to comply with the GMA requirement to provide a sufficient supply and achieve the affordable housing goal. Implementation of this rural Market Factor is accomplished by deducting this percentage of parcels from the total available rural parcels. Note that this rural Market Factor is half of the urban Market Factor of 15% in order to also satisfy the GMA goal of reducing low density sprawl.
8	A 27.7% infrastructure deduction for infrastructure including roads, storm water, parks, schools, fire stations, conservation areas, lakes, streams, protected buffers, Etc.. A 0% deduction shall be used for rural areas.	Same

**Table 2: Planning Assumptions**

Ref	A (existing)	B (proposed)
1	The 20 year urban population is forecasted to increase by 116,591.	Same
2	The actual urban/rural split has consistently been 86/14 for decades. But a 90/10 split shall be used instead to lower the rural population growth forecast to only 12,955 persons.	The actual urban/rural split has consistently been 86/14 for decades and is a viable policy option. The 1994 approved plan used 80/20. A more moderate policy of 87.5/12.5 forecasts 16,656 new rural persons for this plan update.
3	The annual county-wide population is forecasted to grow by 129,546 from 448,845 in 2015 to 578,391 in 2035 which calculates to an annual growth rate of 1.28%.	The county-wide population is forecasted to grow by 133,247 from 448,845 in 2015 to 582,092 in 2035. That is a 1.31% annual growth rate. That total is 0.6% higher than choice A. The annual rate is 0.03% higher than choice A.
4	The choice A assumptions assert that Alternative 1 would add 18,814 new persons in the rural area which is 45% more impact than necessary since choice A forecasts a need for 12,955 new persons in the rural area.	The choice B assumptions show that Alternative 1 can fit 8,182 new persons which is 51% too low. Thus Alternative 1 is not a viable option since it cannot comply with the GMA requirement to provide for the forecasted growth. (8,182 / 16,656)
5	The choice A assumptions assert that the original draft Alternative 4 map would add 32,987 new persons which is 155% more impact than necessary since choice A forecasts a need for 12,955 new persons in the rural area.	The choice B assumptions assert that the updated Alternative 4 map can accommodate 16,332 new rural persons. That falls within 2% of the forecasted rural population growth of 16,656 persons. Therefore, Alternative 4 is the appropriate choice.
6	No improvements or mitigations that were identified in the public process should be allowed. Each draft alternative must be accepted or rejected as is. Any revisions would require the process to start over and result in missing the required deadline.	The Alternative 4 updated maps include mitigations that increase the variety of lot sizes including AG-20, preserve large parcels near the UGBs for future employment, and better preserve the rural character. These revisions and planning assumptions should be allowed as proposed.
7	Cluster options are not necessarily included in any Alternative and therefore may not be available to preserve open space or large areas of habitat.	Rural cluster options are to be integrated into Alternative 4 within the limits of the law per previous direction given by the Board for R, AG, and FR zones to provide flexibility, to preserve open space, and to better provide for larger aggregated areas of habitat.
8	The existing Alternative-1 map defines 57% of existing R parcels as nonconforming, 76% of existing AG parcels as nonconforming, and 89% of existing FR parcels as nonconforming. It is not realistic since it does not fit the already developed patterns that actually exist.	The updated Alternative-4 map should be adopted to correct the mismatch between Alternative 1 map and the already developed patterns that actually exist, to respect predominant lots sizes, to resolve some spot zoning problems, and to best accommodate the forecasted population.

**Graph 1: Rural Population Capacity and Forecast**



Note that the existing Comp Plan approved in 2008 planned for a rural population increase that was higher than both choice A and choice B. That 2008 Plan approved for 19,263 new people to be accommodated in the rural area. That plan also approved a higher county-wide population increase to 584,310 persons by the year 2024. – 2004-2024 Comp Plan, chapter 3, page 3-3.

It would be logically fallacious to assert that the proposed choice B with lesser rural population growth and rural impact is somehow not compliant with the GMA after the existing Comp Plan with higher numbers and more impact was approved and found to be GMA compliant.

Assumption choice A counts on developing significant percentages of environmentally constrained land and critical areas. In contrast, choice B better respects the environmentally constrained land and critical areas to better preserve the environment.

**Table 3: The Actual Urban / Rural split for the past 20 years**

Year	County-wide Population	Rural Population	Percent Rural Population	Urban / Rural Split
1995	279,522	43,254	15.5	84/16
1996	293,182	44,882	15.3	85/15
1997	305,287	46,409	15.2	85/15
1998	319,233	48,104	15.1	85/15
1999	330,800	49,429	14.9	85/15
2000	346,435	51,182	14.8	85/15
2001	354,870	52,002	14.7	85/15
2002	369,360	53,548	14.5	85/15
2003	375,394	54,146	14.4	86/14
2004	384,713	54,869	14.3	86/14
2005	395,780	56,009	14.2	86/14
2006	406,124	57,551	14.2	86/14
2007	414,743	58,608	14.1	86/14
2008	419,483	59,042	14.1	86/14
2009	424,406	59,623	14.0	86/14
2010	427,327	59,858	14.0	86/14
2011	432,109	60,544	14.0	86/14
2012	435,048	60,845	14.0	86/14
2013	443,277	61,489	13.9	86/14
2014	446,785	61,948	13.9	86/14

Source: Clark County Assessor GIS records:

The following table documents the actual capacity of the rural area to accommodate the potential population increase for Alternative 1 and Alternative 4 using proposed choice B assumptions compared to the existing choice A assumptions considered in the DSEIS. The revised Alternative 4 map with Choice B assumptions is the proposed Choice B policy.

**Table 4: Rural Capacity to Accommodate Population Growth**

	Alt-1 Capacity per DSEIS Choice A (existing)	Alt-1 Actual Capacity Choice B (proposed)	Alt-4 Capacity per DSEIS Choice A (existing)	Alt-4 Actual Capacity Choice B (proposed)
Rural Zone	5,684	2,570	9,880	4,610
Agriculture Zone	970	286	1,958	733
Forest Zone	419	162	563	1,097
Nonconforming likely		183		74
Other Rural Zones		124		124
Gross potential growth home sites	7,073	3,325	12,401	6,638
7.5% Market Factor deduction	0	-249	0	-498
Net potential growth of home sites	7,073	3,076	12,401	6,140
Potential population growth	18,814	8,182	32,987	16,332

Source: Clark County GIS:

**Correcting the population growth planning assumptions:**

The following table lists the population, growth rates, and urban/rural split options for resolving the differences between the tables in the DSEIS, the adopted resolutions, and planning assumptions. Reference 4 is proposed Choice B policy.

**Table 5: Variations in Population Forecast Documentation**

Ref	Starting population in the year 2015	20-year county-wide population projection	Planned county-wide population growth	Planned urban population growth	Planned rural population growth	Stated annual growth rate	Actual annual growth rate
1	448,845	578,391*	129,546*	116,591	12,955	1.12%*	1.28%
2	447,865	577,431*	129,566*	116,609	12,957	1.25%*	1.29%
3	448,815	577,431*	128,616*	115,754	12,862	1.26%*	1.27%
4	448,845*	582,092	133,247	116,591*	16,656	1.31%	1.31%

\* indicates a directly specified parameter that drives the other parameters.

The calculations for each of the table entries are as follows:

Ref 1: The most recent population growth projection was adopted on April 14, 2015 via resolution# 2015-04-05

<http://clark.wa.gov/thegrid/documents/2015-04-05.pdf>

2015 starting population = 578,391 – 129,546 = 448,845

The Urban/rural population growth split = 90% urban, 10% rural

2035 urban population growth = 129,546 \*0.9 = 116,591

2035 rural population growth = 129,546 \*0.1 = 12,955

County-wide annual growth rate = 578,391 / 448,845 = 1.2886208

The 20<sup>th</sup> root of 1.2886208 = 1.012759, annual growth rate = 1.28%



Ref 2: DSEIS table S-1 on page S-2

<http://clark.wa.gov/cgrid/images/DSEISTableS-1.JPG>

2015 starting population = 577,431 – 129,566 = 447,865

The Urban/rural population growth split = 90% urban, 10% rural

2035 urban population growth = 129,566 \* 0.9 = 116,609

2035 rural population growth = 129,566 \* 0.1 = 12,957

County-wide annual growth rate = 577,431 / 447,865 = 1.289297

The 20<sup>th</sup> root of 1.289297 = 1.012859, annual growth rate = 1.29%

---

Ref 3: DSEIS table 1-1 on page 1-2

<http://clark.wa.gov/cgrid/images/DSEISTable1-1.JPG>

2015 starting population = 577,431 – 128,616 = 448,815

The Urban/rural population growth split = 90% urban, 10% rural

2035 urban population growth = 128,616 \* 0.9 = 115,754

2035 rural population growth = 128,616 \* 0.1 = 12,862

County-wide annual growth rate = 577,431 / 448,815 = 1.286568

The 20<sup>th</sup> root of 1.286568 = 1.0126786, annual growth rate = 1.27%

---

Ref 4: Corrected starting population and urban population growth to original resolution# 2015-04-05 with 87.5/12.5 urban/rural split.

For 87.5/12.5 urban/rural population growth split, the numbers are as follows:

2035 urban population growth = 116,591 (from resolution# 2015-04-05).

Keeping the same urban growth, the rural population growth is calculated as follows, where X = the rural population growth:

$X = 116,591 * .125 / .875 = 16,656$

County-wide population growth = 116,591 + 16,656 = 133,247

County-wide 2035 population = 448,845 + 133,247 = 582,092

County-wide annual growth rate = 582,092 / 448,845 = 1.2968664

The 20<sup>th</sup> root of 1.2968664 = 1.01308238, annual growth rate = 1.31%

**Exhibit B**

**Rural Comparison of the 2004-2024 and the Proposed 2016-2035 Comp Plan Update**

Comp Plan changes should be based on compelling reasons and be understood in the context of already approved plans that have proven to be GMA compliant. The following documentation explains the compelling need to address the chronic problems that have plagued the rural community for more than 2 decades.

The Comp Plan that was first adopted in 1994 created a gross mismatch between the actual ground-truth of already developed rural patterns and an unrealistic zoning map. Subsequent Comp Plan updates have failed to address the chronic mismatch problems.

The unrealistic zoning map persists to this day and would continue to persist if Alternative 1 was selected for this Comp Plan Update. The current rural zoning map is not appropriate as demonstrated by the gross mismatch between the existing zoning map and the existing R, AG, and FR zones of the rural community. That zoning map creates the following problems:

**Table 1 – Mismatch between the existing rural zoning map and the real world**

<b>Rural zone</b>	<b>Proportion defined as non-conforming</b>
<b>R Zoned Parcels</b>	<b>6 out of 10</b>
<b>AG Zoned Parcels</b>	<b>8 out of 10</b>
<b>FR Zoned Parcels</b>	<b>9 out of 10</b>

This mismatch is not a result of the rural community creating nonconforming parcels. Rather the mismatch was created by an incompatible zoning map that was created in 1994 that made the vast majority of rural parcels nonconforming. That mismatch continues to harm the rural community by increasing the cost and complexity of permits for most rural citizens.

Further, such wide-spread negative impacts have restricted the reasonable improvements that would otherwise be appropriate for existing homes in the rural community. The needless extra cost and complexity of permits impacting the majority of rural citizens, not only disregards the specific goals of listed in the GMA, but the negative impacts hamper the fulfillment of those goals.

**Exhibit B**

**Table 2 – Fulfilling the goals of the GMA:**

<b>GMA Goal</b>	<b>Alternative 1</b>	<b>Alternative 4</b>
<b>Affordable Housing</b>	<b>Higher cost</b>	<b>Lower cost</b>
<b>Economic Development</b>	<b>Disadvantaged</b>	<b>Supported</b>
<b>Variety of rural densities</b>	<b>6 total</b> R: 5, 10, 20 AG:20 FR: 40, 80	<b>10 total</b> R: 1, 2.5, 5 AG: 5, 10, 20 FR: 10, 20, 40, 80
<b>Property Rights</b>	<b>Diminished</b>	<b>Respected</b>
<b>Permits</b>	<b>Costly, burdensome, overly constrained</b>	<b>More affordable, straight forward, simpler, more flexible</b>

**Table 3 – Population Growth and Proposed Densities**

<b>Ref</b>	<b>2004-2024 Plan as approved in 2007</b>	<b>Proposed 2016-2035 Plan</b>	<b>Difference</b>
Forecasted Rural Population Growth	<b>19,264</b>	<b>16,656</b>	<b>13.6% less</b>
Rural Population Capacity	<b>19,132</b>	<b>16,332</b>	<b>14.7% less</b>
Forecasted Rural Parcel Growth	<b>7,438</b>	<b>6,262</b>	<b>15.8% less</b>
Forecasted Rural Parcel Growth	<b>7,387</b>	<b>6,140</b>	<b>16.9% less</b>
Planned County-wide Population Density (persons / Sq Miles)	<b>889</b> (584,310 / 656.6)	<b>887</b> (582,092 / 656.6)	<b>same</b>
Planned Urban Population Density (persons / Sq Miles)	<b>3184</b> ((328,123 + 173,371) / 157.5)	<b>3224</b> ((386,640 + 116,591) / 156.1)	<b>1.26% more</b>
Planned Rural Population Density (persons / Sq Miles)	<b>166</b> ((63,552 + 19,264) / 499.1)	<b>158</b> ((62,205 + 16,656) / 500.5)	<b>4.8% less</b>

Exhibit B

The above calculations for population densities are based on the following data:

**Table 4 – Population Growth and Proposed Densities**

Square Miles	2004-2024 Base Year	2016-2035 Base Year
County-wide	656.6	656.6
Urban (cities + UGAs)	157.5	156.1
Rural	499.1 (500.6 – 157.5)	500.5 (656.6 – 156.1)

**Show your work:**

The following math show how the forecasted population numbers were calculated with GIS data.

Per the 2007 plan for the target 2024:

County-wide population:  $391,675 + 192,635 = 584,310$

Urban Population:  $328,123 + 173,371 = 501,494$

Rural population:  $63,552 + 19,264 = 82,816$

Per the proposed plan for the target 2035:

County-wide population:  $448,845 + 133,247 = 582,092$

Urban Population:  $386,640 + 116,591 = 503,231$

Rural population:  $62,205 + 16,656 = 78,861$

**What the proposed rural plan does:**

The proposal provides a more realistic and sensible plan that is consistent with the ground truth of already developed parcels and rural conditions. In contrast to unlikely scenarios that may be theoretically possible, but unlikely to unfold, the proposal corrects unrealistic assumptions to better align with realistic expectations.

Rather than proliferating smaller rural parcels, the proposed plan recognizes predominant patterns that already exist.

**What the proposed rural plan does not do:**

The proposed rural plan does not de-designate any resource land

The proposal does not increase rural density compared to the existing plan approved in 2007. Rather, the above facts show, the proposal is for a lower rural density than the existing 2007 plan that was approved as GMA compliant.

The proposal does not propose a higher rural population or more rural lots than the existing plan approved in 2007. Rather, the above facts show that the proposal forecasts a lesser rural population growth and accommodates fewer new persons than the existing 2007 plan that was approved as GMA compliant.

**Conclusion:**

Some have argued that we cannot afford the time to correct the known problems and suggest that perhaps in 8 to 20 years, we can conduct in-depth studies to get it right. Some shrink back from the responsibility for fear of lawsuits and prefer to kick the can down the road because it would be easier

The GMA does not excuse counties from doing their due diligence or from fulfilling their responsibilities to complete the required task of submitting the most realistic and best plan for their community.

Every effort has been made to meet or exceed all appropriate processes. That investment should not be abandoned because it is too hard or too risky. In contrast, we can now select a concise and optimized plan and complete the task in the allotted time. Our community's future is worth the effort.