



**OREGON**

Department of Land Conservation & Development

# OREGON FARM & FOREST LAND USE REPORT

## 2018 –2019



November 15, 2020:



**OREGON**

Department of  
Land Conservation  
& Development



## CONTENTS

- I. Introduction
  - Reporting of County Land Use Decisions
  - Use of the Report
- II. Oregon's Agricultural Land Protection Program
  - Agricultural Land Use Policy
  - Farmland Taxation in Oregon
  - Agricultural Lands
  - Exclusive Farm Use Zones
  - Farm Ownership and Operations
  - Climate impacts, adaptation and carbon sequestration
- III. Land Use Approvals on Agricultural Land
  - Dwellings
  - Nonresidential uses
  - Land Divisions and Property Line Adjustments
- IV. Oregon's Forestland Protection Program
  - Forest Lands
  - Forest and Mixed Farm-Forest Zones
  - Wildfire
  - Climate adaptation and carbon sequestration
  - Recreation and tourism
- V. Land Use Decisions on Forestland
  - Dwellings
  - Nonresidential uses
  - Land Divisions and Property Line Adjustments
- VI. Conversion: Zone changes, UGB Expansions and Other Metrics for Consideration
- VII. Ballot Measures 37 and 49
- VIII. Conclusion

## APPENDIX

- 2018-2019 Data Tables
- Historical Data Tables



## Introduction

For nearly half a century, Oregon has maintained strong policies to protect our farm and forest lands. The state legislature adopted governance in the early 70's calling for the preservation of a maximum amount of the limited supply of agricultural land in order to sustain the agricultural economy and ensuring forest resources remain available for timber harvest, wildlife habitat, natural resource values and recreation.



The main tool for carrying out these policies is the statewide land use planning program. Oregon's Land Conservation and Development Commission (LCDC) sets standards and criteria for protecting these resource lands. Counties then apply these state requirements through local comprehensive plans and land-use ordinances. Under this system, all 36 counties in Oregon have adopted planning and zoning measures to protect agricultural and forest lands.

Vibrant farm and timber economies require critical masses of resource land be maintained. When residential development or other non-resource uses encroach into these areas, a downward cycle of conversion leads to increased conflicts between farm and forest practices and rural residents, as well as increased risk for wildfire and pressures on diverse wildlife.

Oregon provides persuasive evidence that zoning has been able to protect large areas of land from conversion to other uses, particularly sprawling residential subdivisions. The comparison to other parts of the country is stark, especially at the edges of urban areas, where in most states low-density residential development continues to leap-frog across the landscape, forcing the premature conversion of farms and forestlands to other uses and encroaching into the wildland-urban interface.

In the past, conversations around working lands preservation have primarily focused on constraining urban sprawl. There is a growing concern within working lands preservation communities about trends in increasing low-density rural residential development. A report published this summer by the American Farmland Trust (AFT) recognizes that increased low-density residential development in agricultural areas results in actual conversion of farmland to other uses. AFT estimates that roughly half of the farmland conversion in Oregon between 2001 and 2016 was due to low-density residential development. This happens even while land remains under exclusive farm use zoning. This report contains detailed data on those non-farm and non-forest uses that have been permitted on lands designated as working resource lands.

This report provides information on the background and structure of the Goal 3 (Agricultural Lands), and Goal 4 (Forest Lands), components of the land use program; reports data on applications approved and denied for certain land uses in exclusive farm use (EFU) and forest zones; and highlights challenges and emerging issues pertaining to the protection of agricultural or forest land. Careful consideration of this information can provide insight into:

- How well our program is working relative to the original goals established for it,
- How new data and information could be used to enhance the program,
- How we can respond to challenges facing the program, and
- How the program might be adapted to respond to emerging issues like climate change adaptation and mitigation.



### **Reporting of County Land Use Decisions**

Oregon Revised Statutes (ORS) 197.065 requires the Oregon Land Conservation and Development Commission (LCDC) to submit a report every two years to the Legislature “analyzing applications approved and denied” for certain land uses in exclusive farm use (EFU) and forest zones and “such other matters pertaining to protection of agricultural or forest land as the commission deems appropriate.”

The Department of Land Conservation and Development (DLCD or department) receives county land use decisions in EFU, forest and mixed farm-forest zones. This report summarizes the information provided by the counties for the two-year period from January 1, 2018 through December 31, 2019. For each of the two years, tables and graphs include information on dwelling and land division approvals as well as other approved uses on farm and forest land. Detailed, county-level data tables are included here in the appendix and statewide summaries are included in the body of the report. In addition, the report provides information on the acreage rezoned out of farm and forest zones to urban and rural zones in this same time period. Additional graphs, tables, and maps provide historic data on development trends and land conversion of farm and forest land to other uses. Finally, this report also includes data on county land use decisions in farm and forest zones that are based on waivers to state and local land use regulations under Ballot Measures 37 and 49.

### **Use of this Report**

The department uses the collected information to evaluate the extent and location of development, partitions, and zone changes on farm and forest lands. This information is used to continually assess the effectiveness of farm and forest programs in implementing Statewide Planning Goal 3 (Agricultural Lands) and Goal 4 (Forest Lands). The data may also be used by LCDC and the Legislature to shape statutory and rule changes to enhance or clarify protections for farm and forest lands.



## **I. Oregon's Agricultural Land Protection Program: Planning for the agricultural economy**

As expressed in the statutory Agricultural Land Use Policy, the preservation of agricultural land is one of the primary objectives of Oregon's statewide planning program. Oregon has determined that it is in the state's interest to protect the finite land resource that is the foundation of one of its leading industries – agriculture. Agriculture is the second largest sector of Oregon's economy contributing directly and indirectly \$12.12 billion in taxes, \$29.71 billion in wages and over 680,000 jobs (ODA 2020).

### **2017 USDA NASS Highlights for Oregon**

- 37,616 Farms in Oregon
- 1,664,921 acres of irrigated land
- \$5 billion market value of products sold

Oregon's agricultural lands protection program is based on statute and administrative rules as interpreted by the Land Use Board of Appeals (LUBA) and the courts. Statewide Planning Goal 3 (Agricultural Lands) requires counties to identify and inventory agricultural land, apply statutory EFU zones (ORS Chapter 215) to those lands, and review applications for farm and non-farm uses according to statute and administrative rule (OAR chapter 660, division 33). These provisions also incorporate statutory minimum lot sizes and standards for all land divisions.

## **Oregon's Agricultural Land Use Policy**

### **ORS 215.243 Agricultural Land Use Policy**

- (1) Open land used for agricultural use is an efficient means of conserving natural resources that constitute an important physical, social, aesthetic and economic asset to all of the people of this state, whether living in rural, urban or metropolitan areas of the state.
- (2) The preservation of a maximum amount of the limited supply of agricultural land is necessary to the conservation of the state's economic resources and the preservation of such land in large blocks is necessary in maintaining the agricultural economy of the state and for the assurance of adequate, healthful and nutritious food for the people of this state and nation.
- (3) Expansion of urban development into rural areas is a matter of public concern because of the unnecessary increases in costs of community services, conflicts between farm and urban activities and the loss of open space and natural beauty around urban centers occurring as the result of such expansion.
- (4) Exclusive farm use zoning as provided by law, substantially limits alternatives to the use of rural land and, with the importance of rural lands to the public, justifies incentives and privileges offered to encourage owners of rural lands to hold such lands in exclusive farm use zones.



Oregon's Agricultural Land Use Policy was first established by the Oregon Legislature in 1973 with the enactment of SB 101, the partner bill to the Land Conservation and Development Act (SB 100), and is codified at ORS 215.243. It pre-dates the adoption of Goal 3 and is included therein by reference.

There are four basic elements to the policy. This first two parts of the policy recognize the benefit of farmland preservation to the agricultural economy and also its physical, social and aesthetic contributions to all people of the state in both urban and rural communities. It acknowledges agricultural land as a limited natural resource and as an asset to the public. In other words, the policy acknowledges that ***private farm land has significant public value beyond the economic contribution of the agricultural sector and the security of food supply.***

Some of those public values are less tangible, such as the imaginal contribution of the farm-scape to our sense of landscape identity - or the 'open air' and 'room to breathe' that attract recreationists to our countryside. Other public values are more concrete and have been the subject of growing public discourse such as the potential for carbon sequestration - particularly on managed rangeland.

While the first two policy statements clearly set forth the state's interest in the preservation of agricultural lands, the later statements establish that:

- Imposing limitations on uses allowed on agricultural lands are justified in order to prevent the conflicts and negative outcomes which are the typical topics of many of our land use reviews, and
- Certain incentives and privileges (i.e. special tax assessment) are justified because of those limitations placed upon the use of the land.

### Farmland Taxation in Oregon



In Oregon, all land zoned EFU automatically receives special tax assessment at its farm use value rather than at its true cash or "highest and best use" value, unless it is explicitly disqualified. The tax laws enabling this special assessment, laws establishing areas of eligibility and the criteria for eligibility pre-date the Land Conservation and Development

Act by over a decade. Between 1961 and 1973 the special farm assessment program evolved from a voluntary, incentive-based program available in a few areas of the state to a consistent, statewide program that requires the protection of agricultural land through zoning restrictions with reciprocal tax benefits. EFU landowners receive financial compensation in the form of reduced property tax in exchange for the restrictive land use limitations imposed by the EFU zone. The structure that has been in place since 1973 is a compensatory tax program linked to the land use program.



Over the years there have been efforts to quantify the tax benefit owners of EFU land have received. A 2015 report by the American Land Institute estimates the program has resulted in a total \$5.75 billion of compensation in the form of reduced property taxes in the forty-year period from 1974 to 2014. As discussed further below, when the program was established, only six nonfarm uses were allowed in the EFU zone. Since the inception of the program, the legislature has added additional allowed uses on farmland almost every legislative session. There are now over 60 nonfarm uses allowed in the exclusive farm zone. As we consider how the program has evolved over the past 47 years and how successful we have been in achieving the farm land policy goals set by the legislature, it is also important to keep in mind the incentives and privileges the state has afforded owners of rural lands to hold such lands in restrictive exclusive farm use zones.

### **What and where are our Agricultural Lands?**

Oregon boasts a diverse landscape supporting a variety of agricultural activities. As reported in the 2017 Census of Agriculture, over 220 high-quality agricultural products are produced in the state. The top commodities produced reflect that diversity ranging from cattle and calves, hay, grass seed, milk, wheat, wine grapes, blueberries, hazelnuts, nursery products and Christmas trees. Important agri-clusters are located in all areas of our state.

#### **Agricultural Lands Definition**

- 1) Lands classified by the U.S. Natural Resources Conservation Service (NRCS) as predominantly Class I-IV soils in Western Oregon and I-VI soils in Eastern Oregon;
- 2) Land in other soil classes that is suitable for farm use as defined in ORS 215.203(2)(a), taking into consideration soil fertility; suitability for grazing; climatic conditions; existing and future availability of water for farm irrigation purposes; existing land use patterns; technological and energy inputs required; and accepted farming practices; and
- 3) Land that is necessary to permit farm practices to be undertaken on adjacent or nearby agricultural lands.

Land in capability classes other than I-IV/I-VI that is adjacent to or intermingled with lands in capability classes I-IV/I-VI within a farm unit, shall be inventoried as agricultural lands even though this land may not be cropped or grazed.

For land use purposes, the definition of “Agricultural Lands” subject to statewide planning Goal 3 is primarily based on Natural Resource Conservation Service (NRCS) soil capability ratings. Our program relies on objective, scientific field data in determining what is inventoried as agricultural lands rather than subjective and changeable trends in the agricultural economy or metrics of profitability which are dependent on the particular skills of individual operators and market conditions. Basing our definition of agricultural lands on soils classifications acknowledges that long term resource decisions should not be based on short-term conditions, or to put it other words, individual circumstances such as profitability should not be the basis for long-term resource preservation decisions.



In recognition of the difference in our regional landscapes and unique needs of the variety of farm industries, the definition also encompasses other soil classes as needed based on fertility, climatic conditions, availability of water, land use patterns and farming practices. This allows for a broader definition of agricultural lands subject to Goal 3 in keeping with the individual characteristics, vision and needs of local communities.

Lastly, consistent with the Agricultural Land Use Policy's focus on preserving fully functioning agricultural landscapes, the definition of Agricultural Lands is also meant to include lower capability lands that are interspersed within a cohesive working landscape.

By 1985, all 36 counties had completed their agricultural land inventories based on this definition and the procedures set forth in rule. Counties applied Exclusive Farm Use (EFU) zoning to all inventoried agricultural lands. At that time approximately 16.1 million acres were protected under the EFU zoning designation. Today, 99% of that land remains under the EFU zoning designation. The section on land conversion below addresses other metrics that might be used to evaluate trends in farmland conversion in the state.

Classification of Agricultural Lands: Over the life of the land use program, the State Legislature has added several definitions to statute and rule influencing how agricultural lands are prioritized relative to other development opportunities. Newer definitions for priority – or “high-value” farmland are more inclusive and rely on more current data. As noted above, the foundation for farm land inventories was based on scientific data. Our evolving understanding of the importance of agricultural soils should be informed by technical experts and current data.

“Man – despite his artistic pretensions, his sophistication, and his many accomplishments – owes his existence to a six inch layer of topsoil and the fact that it rains.”

— Paul Harvey

Further classification of designated agricultural lands is required to address criteria under certain land use reviews. Certain land use reviews may require evaluation of the land relative to one of several different definitions for high-value farmland<sup>1</sup>, or to definitions for arable land, land suitable for the production of farm crops and livestock, or non-arable land. Land categorized under certain definitions may not be eligible for certain uses or may require additional standards be met. All of these exercises depend fundamentally on soil capability classifications published by NRCS, though the definition may refer to the dataset as it existed at a certain date in time.

The Oregon Legislature originally created the definition of high-value farmland at ORS 195.300(10) for use in review of Measure 49 claims and it was later referenced in a few other review types. The definition at 195.300(10) goes beyond the more basic soils capability definition in rule to include things like suitability for viticulture use; evaluation of access to irrigation water or drainage infrastructure and other metrics in determining if the land should be considered particularly important for agriculture. This is an example of how the Goal 3 program has been updated, albeit in a limited way, to account for advances in data availability; external or environmental constraints on irrigation potential; and evolving social perceptions

<sup>1</sup> ORS 215.710, ORS 195.300, OAR 660-033-0020(8)



of value. ***The way in which we prioritize our agricultural lands for better protection is a topic that merits regular consideration.***

### Exclusive Farm Use Zones

Agricultural lands in Oregon are meant to be protected from conversion to rural or urban uses and other conflicting non-farm uses through the application of EFU zoning. At present, about 16 million acres in Oregon are protected under EFU zoning. The Legislature first developed the EFU zone in 1961 and the statutory zoning provisions are codified in ORS Chapter 215 as interpreted and refined by LCDC rulemaking. State law protects and encourages farm use within the EFU zone. In addition to farm use, the statutes allow for a variety of accessory farm uses and nonfarm uses provided they are compatible with agriculture. Large minimum lot sizes and dwelling approval standards limit the outright conversion of farmland to other uses.



Local jurisdictions do have some discretion in how state statute and rule are reflected in local zoning ordinance provisions and local jurisdictions craft many of the standards and criteria associated with specific uses to recognize regional differences.

- Counties may not impose more restrictive standards on those uses allowed outright in statute, like farming itself or farm stands, and they cannot regulate farm or forest practices<sup>2</sup>, such as herbicide application, on resource lands. However, for discretionary uses like campgrounds that require a demonstration of compatibility with surrounding farm and forest practices, counties may adopt more restrictive standards than those in statute,
- Some uses and standards are mandatory and some are optional, meaning that a county wanting to implement those optional use provisions must adopt them into its local ordinance,
- Certain uses, like guest ranches, are allowed in some areas of the state and not in others,
- Other uses (e.g. nonfarm dwellings) apply different standards and criteria depending on where in the state they will be located.

This flexibility recognizes that municipal and county governments are in the best position to assess local conditions and needs within the regulatory framework established by the state. As a result, county farm use zoning ordinances vary widely across the state.

---

<sup>2</sup> ORS 215.253, "Restrictive local ordinances affecting farm use zones prohibited; exception. (1) No state agency, city, county or political subdivision of this state may exercise any of its powers to enact local laws or ordinances or impose restrictions or regulations affecting any farm use land situated within an exclusive farm use zone established under ORS 215.203 or within an area designated as marginal land under ORS 197.247 (1991 Edition) in a manner that would restrict or regulate farm structures or that would restrict or regulate farming practices if conditions from such practices do not extend into an adopted urban growth boundary in such manner as to interfere with the lands within the urban growth boundary. "Farming practice" as used in this subsection shall have the meaning set out in ORS 30.930."



## Farm Ownership and Operations

Although the land use program does not directly bear on certain factors which influence the agricultural economy and who owns and manages agricultural lands (succession planning, economic viability, access to capital), the topic of ownership is important as owners decide whether to maintain land in commercial farm use or press to develop the property for non-farm uses. As ownership of farmland evolves over generations, we can anticipate that pressures on the land use program will also evolve.

White only	93.99%
Hispanic, Latino, or Spanish Origin	2.88%
More than one race reported	1.12%
American Indian or Alaska Native	0.91%
Asian	0.90%
Native Hawaiian or Other Pacific Islander	0.13%
Black or African American	0.07%
<i>USDA NASS. Selected Farm Characteristics by Race of Principal Producers: 2017</i>	

Approximately 84 percent of Oregon's farms are family owned and operated (USDA, 2017). This may be changing. A Portland State University study found that less than half of all buyers of farmland between 2010 and 2016 had a clear connection to agriculture with many buyers focused on estate/property development, investment (such as national and international investors), or manufacturing (requiring eventual conversion away from working farmland) (Horst, 2018). Farmland is particularly vulnerable to conversion to other uses when an experienced operator retires and may be looking for ways to realize the equity he or she has accrued in the land. The average age of Oregon farmers is 57.9 years old and has been increasing over the past decade. Sixty-four percent of Oregon's farm operators are over the age of 55 (USDA, 2017). This presents challenges in conveying land to the next generation of farmers and highlights the need for farm succession planning. Retirements over the next several decades will require the conveyance of over 10 million acres (64 percent) of Oregon's agricultural land (Brekken et al, 2016). Given the trend towards buyers without a connection to agriculture, this changing of hands presents a challenge for continuity of operations.

Average Age of Oregon Farm Producers 2007 -2017 (USDA 2017)	
2007	55.3
2012	57.4
2017	57.9

## Climate impacts, adaptation and carbon sequestration

Oregon's farms and ranches will experience significant adverse impacts from climate change.			
Increased average temperature	Shifting growing season & climatic zones	Drought	New pests and invasive pressure
Changes in precipitation and snowpack (amount and timing)	Increased CO2 concentrations (fertilization effect)	Changes in irrigation needs and water supplies	New pathogens
Decrease in chilling days	Wildfire	Increased heat stress	Flooding
(Oregon Climate Change Adaptation Framework 2010)			

Climate-related changes in temperatures and precipitation patterns compound and alter pest pressures, crop maturation, and livestock productivity. Oregon's agriculturalists are already experiencing increased disturbances from pest-related losses, prolonged drought, and changing growing seasons (Oregon Climate Change Adaptation Framework 2010). Of particular concern are the projected impacts to availability of irrigation water. Oregon's limited water supplies are already being stressed by climate and population



changes (Mucken, 2017). Reduced availability of water will affect irrigators without first priority water rights, change water supply planning in many basins, and proposals for surface water storage may increase (Oregon Climate Change Adaptation Framework 2010). Irrigated agriculture is a primary economic driver in Oregon, so without careful planning strategies to mitigate water-related impacts, the economy may suffer.

Productive agricultural lands can also serve as a sink for the absorption and sequestration of greenhouse gasses back into both plants and soils in the form of carbon. Practices contributing to the maintenance of soil health are key to this aspect of agriculture's contribution to climate solutions. However, adoption of land use regulations limiting farm practices are prohibited by statutes (ORS 215.253). The responsibility for regulation of farm practices falls to other state agencies. Oregon State University is currently engaged in collaborations to develop a set of nationally adopted soil health metrics, process samples,



and develop a database that can establish a baseline of soil health for the state<sup>3</sup>. The Oregon Department of Agriculture, NRCS and Oregon State University all engage in efforts to provide support and resources for soil health including voluntary incentives for practices related to climate mitigation. As mentioned above, Oregon's land use program relies heavily on NRCS soil capability classifications in defining agricultural lands and high-value farmlands. DLCD remains interested in evolutions in soil health metrics as they relate to definitions and valuations of farmland for the state.

One also cannot overlook the role other aspects of our land use planning program play in ensuring sufficient lands are designated for rural commercial and rural industrial uses and are available for critical food infrastructure like co-packing plants and livestock processing facilities which will help reduce transportation miles, create jobs through localized economic networks in our rural communities, and help keep agricultural land in agricultural production – all of which contribute positively to the climate mitigation strategies.

---

<sup>3</sup> Oregon State University College of Agricultural Sciences Central Analytical Laboratory Soil Health Initiative.



## II. Land Use Approvals on Agricultural Land

### Dwellings

#### ORS 215.243 Resource Land Dwelling Policy

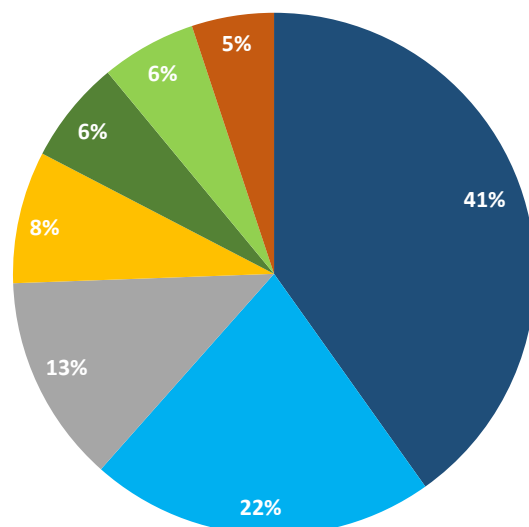
The Legislative Assembly declares that land use regulations limit residential development on some less productive resource land acquired before the owners could reasonably be expected to know of the regulations. In order to assist these owners while protecting the state's more productive resource land from the detrimental effects of uses not related to agriculture and forestry, it is necessary to:

- (1) Provide certain owners of less productive land an opportunity to build a dwelling on their land; and
- (2) Limit the future division of and the siting of dwellings upon the state's more productive resource land.

The EFU zone allows for the development of a variety of dwelling types on agricultural land. These dwelling types generally fall into two broad categories – those permitted for farm owners (and relatives helping in farming) and farm workers (including relatives assisting in the farm operation), and those that are not associated with an active farm use on the property. The statutory policies related to housing on resource land included in ORS 215.262, 215.277 and 215.700 indicate that it was the intention of the legislature that a limited number of dwellings be permitted on less productive resource land and that farmworker housing be allowed as long as it is consistent with the State's agricultural land use policy discussed above.

Fig. 1, EFU dwelling approvals by type, 2018-2019

- Replacement Dwelling : 41%
- Nonfarm Dwelling : 20%
- Temporary Health Hardship Dwelling : 13%
- Primary Farm Dwelling : 8%
- Accessory Farm Dwelling : 7%
- Relative Help Dwelling : 6%
- Lot of Record Dwelling : 5%





## Primary Farm Dwellings

Primary farm dwellings are dwellings that are permitted in conjunction with a working farm operation. There are several ways in which a farm operator may apply to place a primary farm dwelling on agricultural land. All of these tests require that the dwelling only be occupied by the farm operator and the operator's immediate family, and all of these tests require documentation that a commercial farm use is being conducted on the property. Farming of marijuana cannot be considered as a qualifying farm use for the purpose of establishing primary or accessory farm dwellings. The income standards applicable to most of the farm dwelling tests were established in 1992 as clear and objective standards that would be easy for citizens to understand and for local jurisdictions to apply. These gross income requirements were not tied to any inflationary index and have not been revised since.

Table 1, Primary farm dwelling approvals, statewide summary, 2018 - 2019

Primary Farm Dwelling Tests	Summary of Test*	2018	2019
Large Tract Dwelling	On parcel 160-320 acres in size	25	10
Farm Income (High Value)	At least \$80,000 in gross annual income from the sale of farm products in each of the last two years or three of the last five years, or in an average of three of the last five years.	13	18
Farm Income (Non-High Value)	At least \$40,000 in gross annual income from the sale of farm products in each of the last two years or three of the last five years, or in an average of three of the last five years or the median amount of gross income earned by commercial farm operations in the 1992 census.	7	6
Farm Capability	At least as large as the median size of commercial farm tracts capable of generating at least \$10,000 in annual gross sales that are located within a study area. Must be reviewed by DLCD.	2	1
Commercial Dairy**	Owns a sufficient number of producing dairy animals capable of earning the gross annual income required from the high value or non-high value income test - whichever is applicable, from the sale of fluid milk.		
Relocated Farm Operations**	An experienced farm operator who ran a qualifying operation at a different location may relocate to a parcel or tract that previously met the applicable requirements for the farm income test.		
<p>*The basic essence of the test is described here. All referenced tests have additional, nuanced criteria.  ** Reported under the high-value or non-high value tests above.</p>			

Although not required by rule or statute, some counties require covenants be recorded on the property limiting occupancy of the primary farm dwelling to a primary farm operator and the operator's immediate family in order to increase the likelihood of continued compliance with that requirement.



The total number of primary farm dwelling approvals statewide have declined since 1995 though over the past decade the annual number of approvals have remained fairly consistent between 35 – 50 dwelling approvals a year. Table 1 above shows what option was used to approve primary farm dwellings during the 2018-2019 biennium. Forty-two percent of approvals in 2018-2019 were based on the large parcel size test and were approved in southern or eastern Oregon. Thirty-eight percent of approvals in 2018-2019 were based on the high-value income test and over 75% of those approvals occurred in the Willamette Valley. Appendix Tables 2 and 3 contain detailed information on primary farm dwelling approvals.

### Accessory farm dwellings

#### **ORS 215.277 Farmworker housing; compliance with agricultural land use policy required**

It is the intent of the Legislative Assembly that the provision of farmworker housing, as defined in ORS 215.278, not allow other types of dwellings not otherwise permitted in exclusive farm use zones and that farmworker housing be consistent with the intent and purposes set forth in the agricultural land use policy.

Accessory farm dwellings must be sited on a farm operation that earns the same gross income required for a primary farm dwelling (\$80,000 or \$40,000). These approvals occasionally involve more than one dwelling unit. In order to increase the likelihood of continued compliance with the occupancy requirement, some counties require covenants be recorded on the property limiting occupancy of the dwelling to a person who is principally engaged in farm use and whose assistance is required by the farm operator and their immediate family.

Table 2, Accessory farm dwelling approvals, statewide summary, 2018 - 2019

Accessory Farm Dwelling Tests	Summary of Test*	2018	2019
Accessory Farm Dwelling	Occupied by a person employed as a farm worker on the operation. Sited on a farm operation that earns the same gross income required for a primary farm dwelling (\$80,000 or \$40,000)	30	34
Relative Help	Occupied by a relative of the farm operator who whose assistance is required in the management of farm operations.	31	28
<i>*The basic essence of the test is described here. All referenced tests have additional, more specific criteria.</i>			

### Relative Farm Help Dwellings

The number of dwellings approved for relatives whose assistance is needed on the farm has been fairly consistent over the past six years averaging 30 dwelling approvals a year. A concern with this dwelling type is that, once built, there is no requirement that it continue to be occupied by a relative or even that it will continue to be used in conjunction with farm use. Although not required by rule or statute, some



counties require covenants be recorded on the property limiting occupancy of the dwelling to a relative of the primary farm operator whose assistance is needed in the day-to-day operation of the farm in order to increase the likelihood of continued compliance with that requirement.

## Dwellings Not in Conjunction with Farm Use

Table 3, Dwellings not in conjunction with farm use, statewide summary, 2018-2019

Dwellings Not in Conjunction with Farm Use	Summary of Opportunity*	2018	2019
Nonfarm Dwelling	Located on a parcel or portion of a parcel not suitable for resource use and when the dwelling will not materially alter the surrounding land use pattern or negatively impact surrounding farm and forest practices.	115	92
Lot of Record Dwelling	Located on a parcel owned continuously since 1985 or inherited from someone who owned the parcel continuously since 1985.	29	22
Temporary Health Hardship Dwelling	Located on a parcel with an existing dwelling for a caregiver or person suffering a medical hardship.	65	64
Replacement Dwelling	Allows the replacement of a legally established dwelling.	213	189
*The basic essence of the test is described here. All referenced tests have additional, more specific criteria.			

## Nonfarm Dwellings

Nonfarm dwellings may be approved on parcels or portions of parcels that are determined to be unsuitable for farm use. They have engendered much debate due to the subjectivity and complexity of the test. The Oregon Court of Appeals observed in *Cherry Lane v. Jackson County*<sup>4</sup> that these types of nonfarm dwelling approvals should “be the exception and that approval for them be difficult to obtain.”

Except in the two “marginal lands” counties (Washington and Lane),<sup>5</sup> nonfarm dwelling reviews are quite involved, requiring a county to consider resource practices, prior development approvals, development and parcelization trends, and the cumulative impact of all possible new nonfarm dwellings and parcels in a 1,000 to 2,000-acre study area in order to determine if the proposed nonfarm dwelling may alter the stability of the prevailing land use pattern. A county must deny an application if the county determines that the potential dwellings will make it more difficult for the types of farms in the area to continue

<sup>4</sup> 84 Or. App. 196, 733 P.2d 488 (1987).

<sup>5</sup> “Marginal lands” are lands that Oregon Law authorized under previous versions of Oregon Revised Statutes as an optional regulatory method. The Legislature repealed the statutes authorizing marginal lands in 1993, but allowed two counties that had chosen this regulatory method, Lane and Washington, to continue with its use.



operation due to diminished opportunities to expand, purchase or lease farmland, acquire water rights or diminish the number of tracts or acreage in farm use in a manner that will destabilize the overall character of the study area. A particular challenge with this review is determining when the jurisdiction has encountered the proverbial “tipping point” for a given area – particularly when evaluating something as dynamic as the agricultural landscape.

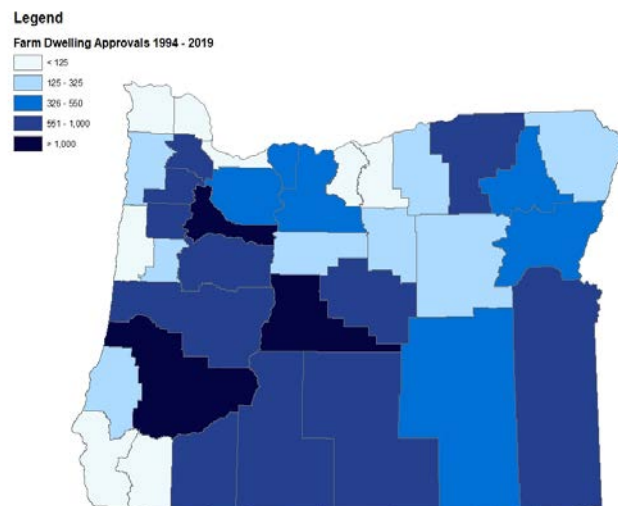
As shown in Figure 4, the number of nonfarm dwelling approvals declined following 2008 and began to increase in 2011. Over the past five years the number of nonfarm dwelling approvals has been fairly consistent – averaging 105 dwelling approvals a year. That is roughly equivalent to the combined average of primary farm dwelling and accessory farm dwelling approvals over the same five-year period (45 primary farm dwelling approvals/year and 65 accessory farm dwelling approvals/year). Appendix tables 4, 11 and 12 contain additional detailed information on nonfarm dwelling approvals over the past biennium and historically.

In 2010, the Legislature passed House Bill 3647, which required DLCD review of soil assessments, or soils challenges, prepared by a private soil consultant. Soil assessments prepared by private consultants may be used to provide more detailed information than is shown on the USDA Natural Resources Conservation Service’s soil mapping and are often used to support a nonfarm dwelling approval by re-classifying a portion of a property to a lower soils capability class. On average, DLCD receives 14 soils reports for review in a given year. One third of the requests received have been for properties in Douglas County, which is consistent with the higher number of nonfarm dwelling reviews in that county.

### Lot of record dwellings

Counties may approve lot of record dwellings on parcels that have been in the same ownership since 1985 and, with some exceptions, are not on high-value farmland. It is anticipated that lot of record approvals will decline over time as existing parcels are built out or conveyed to separate ownership. In 2018-2019, 51 lot of record dwellings were approved. This is consistent with the 10-year average of 25 dwelling approvals per year. Appendix tables 1, 11 and 12 contain additional detailed information on lot of record dwelling approvals over the past biennium and historically.

Fig. 2, Dwelling approvals on EFU, all types, by county, 1994-2019





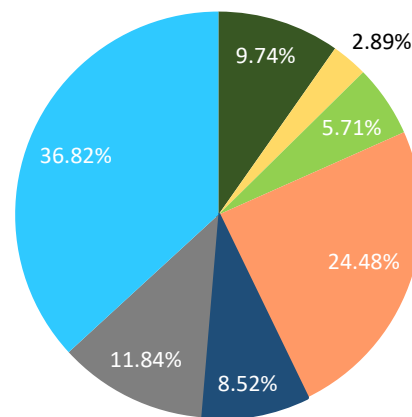
## Health hardship dwellings

These are temporary dwelling approvals for relatives with a medical hardship and must be removed at the end of the hardship. A health hardship dwelling must be sited in conjunction with an existing dwelling and tied into an existing sanitation system. DLCD does not track the removal of these dwellings when they are no longer needed.

During the two-year 2018-2019 reporting period, 129 health hardship dwellings were approved which is consistent with the 5-year average of 67 health hardship dwelling permits/year. Appendix tables 1, 11 and 12 contain additional detailed information on health hardship dwelling approvals over the past biennium and historically.

Fig. 3, EFU dwelling approvals by type, 1994 - 2019

- Primary Farm
- Accessory Farm
- Relative Farm
- Non Farm
- Lot Of Record
- Temp Hardship
- Replacement



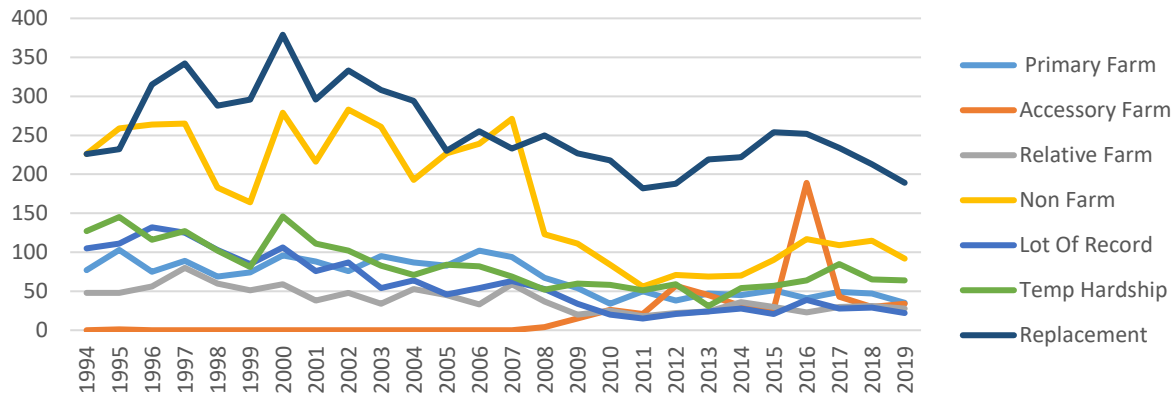
## Replacement dwellings

A replacement dwelling is a new home that replaces any older, legally established dwelling on a parcel. These dwellings do not need to be associated with a farm operation. The legislature added new provisions to statute in 2013 and in 2019 which allow owners to obtain a replacement dwelling when the original dwelling no longer exists or is no longer assessed as a dwelling. This category accounts by far for the most number of dwelling approvals in the farm zone. The historical average for replacement dwelling approvals has remained fairly consistent over time at roughly 220 – 250 replacement dwelling approvals per year. Thirty-eight percent of dwellings approved for replacement were removed, 42 percent were demolished, and 10 percent were converted to non-residential use with 11 percent not specified. Appendix tables 11 and 12 contain detailed information on the number of replacement dwelling approvals over time.



## Cumulative Dwelling Approvals

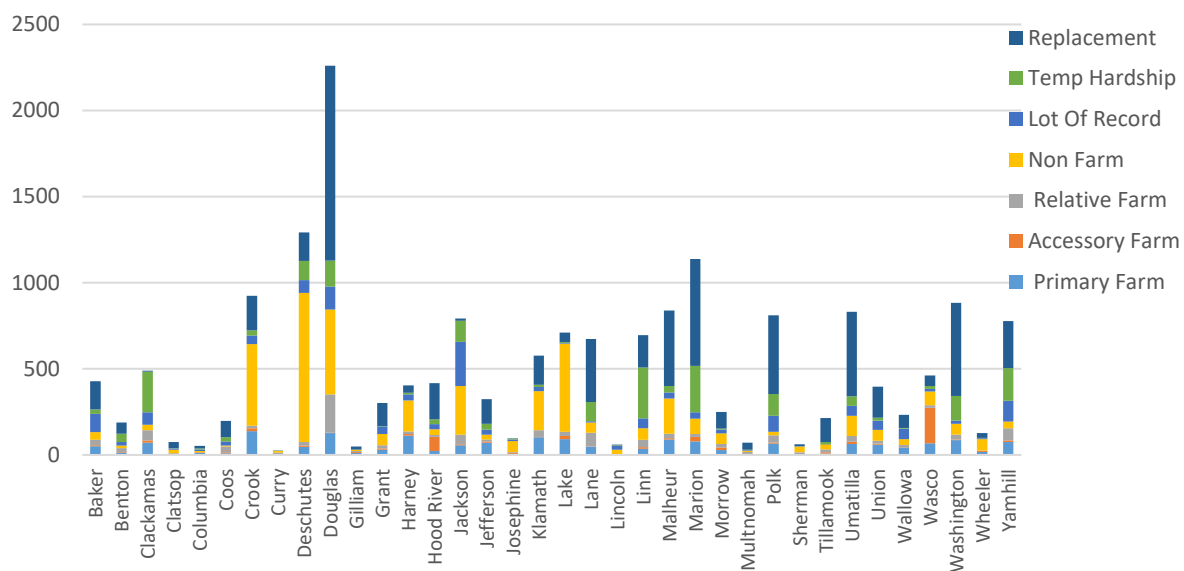
Fig. 4, Dwelling approvals on Farmland by type, 1994-2019



Between 1994 and 2019, over 18,000 dwellings of all types were approved on farmland across the state.

Figures 4 and 5 illustrate the number of dwelling approvals each year since 1994 for the different dwelling types. Detailed information on EFU dwelling approvals over this timeframe are provided in Appendix tables 11 and 12. Since 1994, only 18 percent of dwelling approvals on land zoned EFU have been approved in conjunction with farm use. Thirty-three percent have been nonfarm or Lot of Record dwelling approvals, 37 percent have been replacement dwellings - which may or may not be associated with a farm - and 12 percent have been temporary health hardship dwellings. **Since 1994, fewer dwellings associated with an operating farm have been approved on agricultural lands than other types of dwellings.**

Fig. 5, Total dwelling approvals on Farmland, all counties, 1994-2019

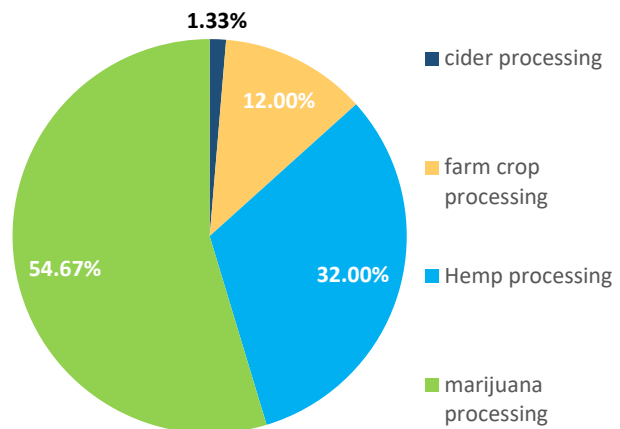




## Nonresidential uses

The Legislature has recognized that some farm-related and non-farm uses are appropriate in EFU and mixed farm-forest zones. The legislature has added additional uses almost every session since the inception of the program. In 1963, the first statutory EFU zone included just six nonfarm uses. Today over 60 uses other than farm use are allowed in an EFU zone. Nonfarm uses are subject to local land use approval and must demonstrate that they will not force a significant change in or significantly increase the cost of accepted farm or forest practices on surrounding lands devoted to farm or forest uses (ORS 215.296). Allowing some nonfarm uses and dwellings assumes that farm zones can accommodate a certain number of nonfarm uses or dwellings without affecting the overall agricultural stability of an area.

Fig. 6, Farm processing facility approval by crop type, 2018-2019



1,000 Friends of Oregon released a report over the summer of 2020, “Death by 1000 Cuts: A 10-Point Plan to Protect Oregon’s Farmland,” that contains a detailed analysis of conflicts and impacts to agriculture from the accumulation of nonfarm uses within working agricultural areas. Potential impacts to the agricultural economy can occur in a variety of ways: from lost time resolving conflicts with residential neighbors due to issues like noise, odors, spraying and trespass and traffic, to more landscape-level impacts that occur when the number of farms decline beyond a certain point. A certain critical mass of farm operations is required in a given area to maintain social networks that provide mentorship, provide opportunities for knowledge sharing, and maintain an informal economy (borrowing equipment or veterinary supplies). That critical mass of farmers is also required to support critical local service providers like diesel mechanics, feed stores and nearby facilities such as co-packing plants and meat processors.

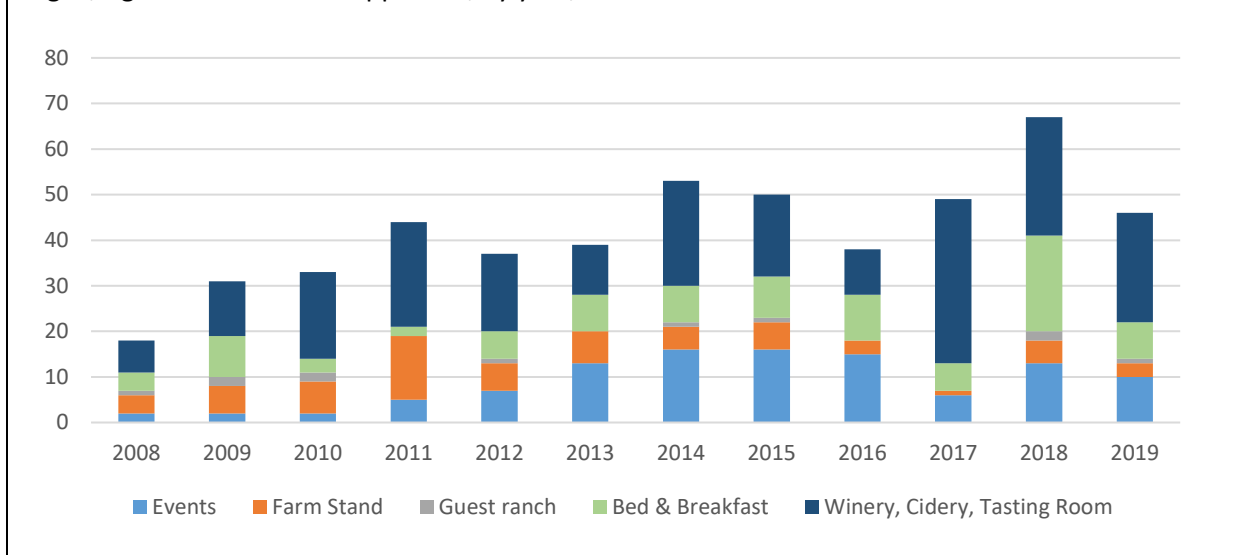
As shown in Appendix table 5, the most commonly approved nonresidential uses in 2018-2019 were solar power generation facilities (59 approvals), home occupations (77 approvals), commercial activity in conjunction w farm use (51 approvals) and farm processing facilities (72 approvals). Renewable energy and agri-tourism related uses are discussed further below.

In 2014-2015, only nine farm processing facilities were approved statewide. The increase from 2016 through 2019 is largely related to marijuana and hemp processing facilities. In 2018-2019, thirty-one percent of commercial activities in conjunction with farm use and eighty percent of processing facility permits were reported as associated with marijuana or hemp processing.



## Agri-tourism

Fig. 7, Agri-tourism related approvals, by year, 2008-2019



Agri-tourism allows visitors to experience and learn about Oregon agriculture while providing additional income for farmers, and has been growing in popularity over the past decade. USDA reports \$16M in 2017 revenue earned from Oregon agri-tourism and recreational services (hunting, fishing, farm or wine tours, hay rides, etc.) (USDA NASS 2017). This represents an increase of 51% over 2012 revenues (\$10.6M). However the burgeoning industry has its share of controversy as operators and neighboring farmers negotiate a series of challenging conflicts, such as noise, litter, trespass, traffic, parking and spraying.

In addition to the potential for conflict with neighboring agricultural operations, there have been some concerns about the effect of events and the cumulative impact of multiple agri-tourism operations on farm practices. Many agri-tourism uses, like farm stands and farm-to-table dinner events, are allowed outright and are not required to address changes to farm practices or cost increases as part of the land use approval process.

There is no definition for agri-tourism in statute or rule and applications can encompass a wide variety of potential options including: u-picks, farm stands, wineries, cideries, breweries, guest ranches, farm-to-table dinners, corn mazes, commercial activities in conjunction with farm use, home occupations, bed and breakfasts, camping, classes, tastings, tours, concerts, festivals, etc. Many of the provisions related to agri-tourism opportunities are optional for counties to adopt into their ordinances, resulting in uneven application across the state.

Agri-tourism can provide an alternate stream of income that helps farmers and can promote awareness of locally produced food. However siting should occur under defined circumstances that address impacts to the neighboring agricultural area and ensure that the primary use of the property remains farm use rather than entertainment and tourism.



Figure 7 shows approvals of agri-tourism related uses from 2008 to 2019. Each of the categories summarized below might be permitted in a variety of ways. Approvals of “commercial activities in conjunction with farm use” can vary from agricultural trucking and processing operations to wine tasting rooms. Figure 7 only includes “commercial activities in conjunction with farm use” that are tourism oriented, such as tasting rooms. Agri-tourism events were added to the list of uses allowed on farmland following the passage of Senate Bill 960 in 2011. Event venues are also sometimes permitted as outdoor mass gatherings, at farm stands, wineries and cider businesses and occasionally as home occupations.

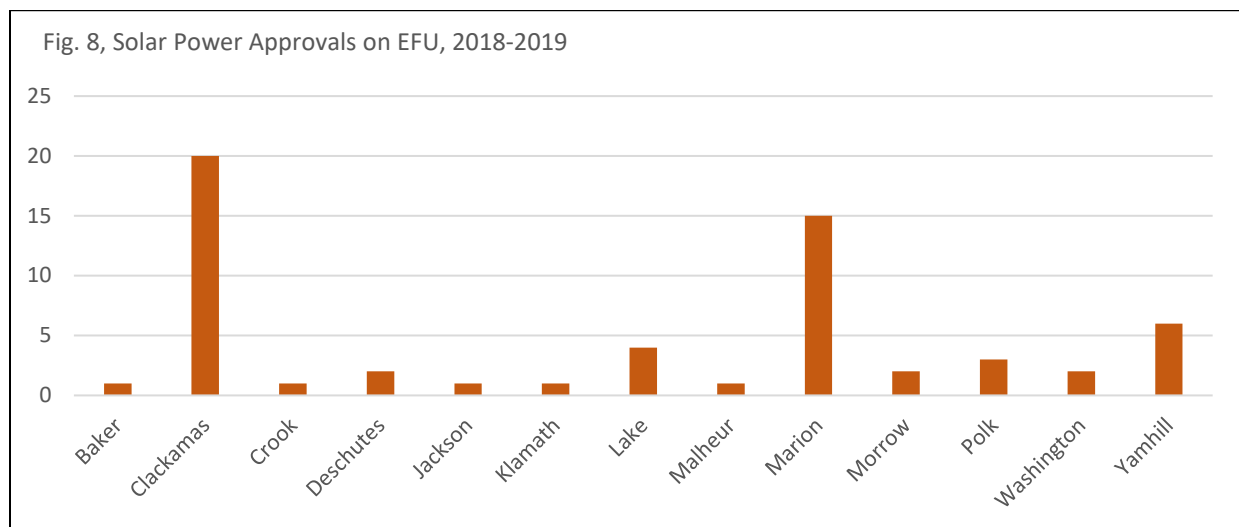
Overnight accommodation options on farmland can be permitted as room and board arrangements, home occupations and bed and breakfasts at wineries, breweries and cider businesses. Activities like product tastings can be permitted as agri-tourism events, home occupations, commercial activities in conjunction with farm use, and at farm stands, wineries, cider businesses and breweries.

Of the 77 home occupation approvals issued in 2018-2019, 44 percent were related to lodging or events venues. Thirty-three percent of approvals for commercial activities in conjunction with farm use in 2018-2019 were for alcohol production and tasting facilities. That is in addition to the thirty-one approvals issued in 2018-2019 for wineries with tasting rooms under ORS 215.452 and 215.453. **The use permits for agri-tourism related activities captured in Figure 7 above represent a quarter of the total non-residential use permits issued on agricultural lands in 2018-2019.**

## Renewable Energy

Oregon has more than 3,400 megawatts (MW) of wind energy generation capacity, ranking tenth in the nation in installed wind energy capability (American Wind Energy Association, 2019). Many wind energy installations are located on farmland and are clustered along Columbia Gorge. The attraction of wind energy to the state is partly due to the large open farm landscapes free from conflicting uses that are made possible by EFU zoning.

Solar energy development is rapidly growing in Oregon. In 2020, Oregon’s installed solar capacity was 881 MW - almost double the installed capacity in 2017 (Solar Energy Industries Association, 2020). Many utility scale solar facilities are opting to locate on land zoned EFU due to proximity to high voltage powerlines and substations with interconnection opportunities, lower land acquisition or lease costs, availability of unobstructed sunlight, and ease of development due to flatter slopes.

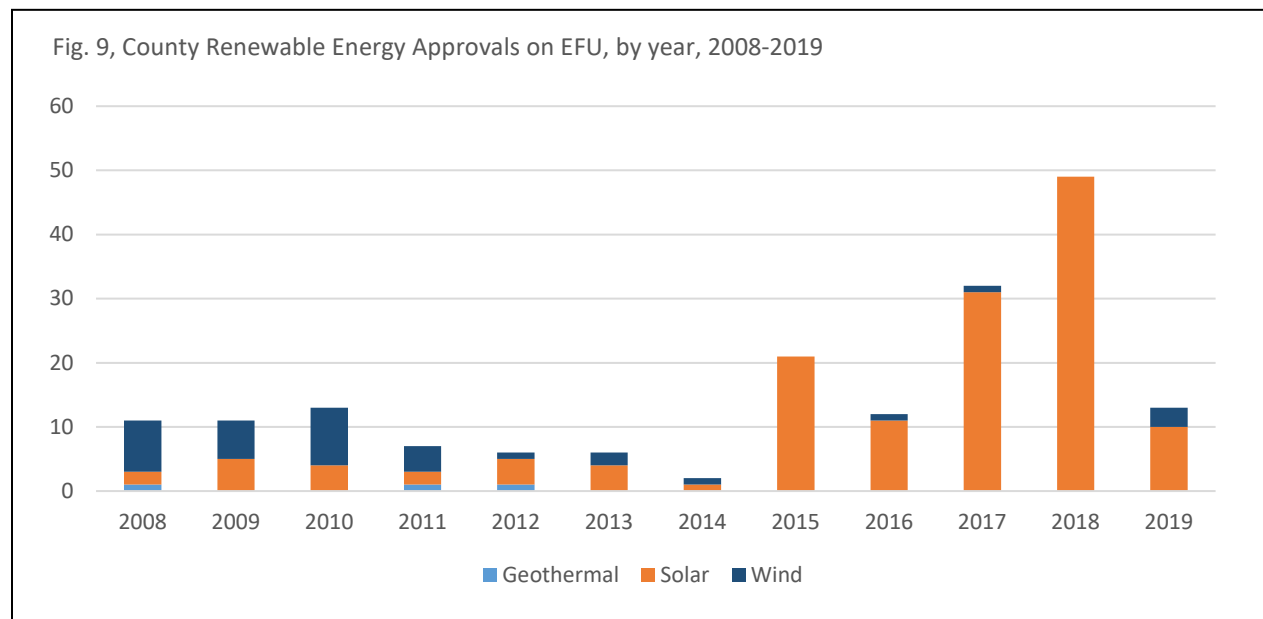


LCDC has limited the size of solar facilities on EFU with the goal of encouraging solar development on land that is the lowest capability for agricultural use rather than high-value farmland. Solar development in eastern Oregon tends to occur on larger parcels with less potential for agricultural use. In 2018-2019, 59 solar power project approvals were issued by local jurisdictions. There has been a sharp increase in the number of solar projects approved in the Willamette Valley on high-value farmland, specifically in Clackamas, Marion, and Yamhill counties. This is a continuation of a trend noted in the 2016-2017 Farm and Forest Report. In 2018-2019, 34 percent of the solar project approvals were issued by Clackamas County, 25 percent were issued by Marion County and 10 percent were issued in Yamhill County. Thirty percent of the approvals issued were for solar facilities exceeding 12-acres in size with the average project size reported as 70 acres. As shown in Figure 8, commercial solar approvals have been rising quickly compared to wind power approvals.

Renewable energy developers may also seek permit approval through the Oregon Energy Facility Siting Council (EFSC) under their standards for review. While facilities over a certain size are required to obtain site certificate approval from EFSC, other developers may choose to do so voluntarily. EFSC review criteria is somewhat different than review criteria in DLCD's rules – particularly for Goal 3 exceptions. Since 2008, EFSC has issued nine Site Certificate approvals for solar and wind power projects involving Goal 3 exceptions under the Department of Energy's Goal 3 exception process. As of November 1, 2020, EFSC currently has an additional seven solar projects under review requiring Goal 3 exceptions.



The rise in renewable energy production on farmland, together with new major transmission line corridors to bring that energy to market, has raised questions and concerns about potential impacts to farm operations, wildlife habitat, scenic viewsheds, and tourism. Other concerns have been raised about the need for a state energy policy and more proactive state and regional roles in the siting of major transmission line corridors and energy facilities that may have regional impacts. At the same time Oregon is committed to the important role renewable energy development will play in addressing climate change and a balance is needed that affords renewable energy developers a degree of security in pursuing certain development sites over others while protecting our limited supply of working farmland for food production.



### Land Divisions and Property Line Adjustments

Local governments approved 181 new parcels on farmland in 2018-2019. These numbers are consistent with the average over the past 5 years. New parcels created in each county are shown in Table 7.

Land divisions on farmland must meet the statutory minimum parcel size of 80 acres (160 acres for rangeland) or be in counties that have approved “go-below” parcel minimums below these sizes. A “go-below” is a parcel size below 80 or 160 acres that has been approved by LCDC as adequate to protect existing commercial agriculture in an area.

State statute also provides several options for creating new parcels smaller than the required minimum parcel size. A county may authorize creation of up to two new nonfarm parcels (each containing a dwelling) if the new parcels are predominantly comprised of non-agricultural soils. In addition, counties may approve nonfarm land divisions for approved conditional uses on farmland. Counties may also approve substandard divisions along urban growth boundaries (UGBs).

In 2018-2019, 38 percent of land division approvals were for conditional uses or nonfarm dwellings. Forty-five percent of new parcels created on farmland were under 10 acres in size and 38 percent were over 80



acres in size. Some of these parcels were created for farm use in counties with reduced “go-below” minimum parcel sizes. The most common reported reason for partitions in 2018-2019 was to create a new parcel for a nonfarm dwelling. Appendix table 6 contains more detailed information on land division approvals in 2018-2019.

### **Property line adjustments**

Property line adjustments are commonly employed for a variety of reasons. However, property owners may not use them to allow the approval of dwellings that would not otherwise be allowed. Many of the reported property line adjustments involve more than two tax lots. In 2018, 277 property line adjustments were approved and 284 were approved in 2019 for total of 561 property line adjustments. During 2016-2017 and 2014-2015, 632 and 593 property line adjustments were approved respectively.



### **III. Oregon's Forestland Protection Program**

#### **Statewide Planning Goal 4**

To conserve forest lands by maintaining the forest land base and to protect the state's forest economy by making possible economically efficient forest practices that assure the continuous growing and harvesting of forest tree species as the leading use on forest land consistent with sound management of soil, air, water, and fish and wildlife resources and to provide for recreational opportunities and agriculture.

The conservation of forest land is one of the primary objectives of Oregon's statewide planning program. Oregon has determined that it is in the state's interest to protect the land resource foundation of one of its largest industries – forestry. Forestry products and services employ over 61,000 people directly in Oregon and are critical to Oregon's rural communities (OFRI, 2019). Oregon is the top producer of softwood lumber and plywood in the United States (OFRI, 2019).

Statewide Planning Goal 4 seeks to maintain Oregon's forests for tree harvesting in balance with the sound management of soil, air, water, fish, and wildlife resources. Healthy forests provide vital ecosystem functions and environmental, social, and economic benefits that people value: air, healthy soils capable of carbon storage, clean water, riparian areas, streams, wetlands and estuaries that enhance habitat for fish and wildlife. Investments in healthy ecosystems also provide recreational opportunities for those who live in and visit Oregon. Recreational opportunities and agriculture are also encouraged on forest land. Other uses allowed on forest land (e.g. dwellings) are limited and subject to standards that make them more compatible with forestry, agriculture, and the preservation of habitat and natural resources. Large minimum lot sizes are prescribed to help ensure land is used in accordance with the purposes of Goal 4.

Plans providing for the preservation of forest lands for forest uses must consider the carrying capacity of the air, land and water resources of the planning area. The land development actions provided for by such plans should not exceed the carrying capacity of such resources.

#### **Forestlands**

Oregon's forested landscape consists of a mosaic of land uses including working forests, conservation reserves, and those associated with human-dominated uses. Oregon is home to some of the world's most productive forests, ranging from dense Douglas-fir forests of the Willamette Valley and Coast Range to the high desert Ponderosa Pine stands in the Cascades and Blue Mountains. Forests cover over 30.5



“Forest lands” as defined in Goal 4 are those lands acknowledged as forest lands, or, in the case of a plan amendment, forest lands include:

- (a) Lands that are suitable for commercial forest uses, including adjacent or nearby lands which are necessary to permit forest operations or practices; and
- (b) Other forested lands that maintain soil, air, water and fish and wildlife resources.

million acres of Oregon, almost half of the state. Sixty percent of the forest land base, approximately 16 million acres, is owned and managed by the federal government under management plans for different benefits. The Oregon Department of Forestry (ODF) estimates that there are approximately 10.4 million acres of nonfederal wildland forests and approximately 853,000 acres of mixed forest/agriculture. 11.8 million acres of the forest land base have been inventoried by counties as forest and mixed forest/agricultural lands and protected under zoning designations. These are the subset of lands subject to Goal 4.

Subsequent to original county designations, there are now provisions in administrative rules for the identification of forest lands which must be contemplated as part of an amendment to a county’s comprehensive plan. Like the requirements for identifying agricultural lands, OAR 660-006-0010(2) requires forest land determinations be based on scientific data for vegetative capability classes published by the Natural Resource Conservation Service (NRCS) or other specific technical resources if such data is not available.

There is also a definition for high-value forest land at ORS 195.300(11) which is tied to the published vegetative capability classes for soils. However, while certain nonfarm uses and rules for UGB and URA expansions rely on the definition of high-value farmland at ORS 195.300(10), the definition for high-value forest land at 195.300(11) is not currently applied to land use reviews outside of procedures related to Measure 49 claims.

### **Forest and Mixed Farm-Forest Zones**

Forest zoning has been instrumental in maintaining working forests in Oregon. ODF reports that Washington’s loss of wildland forest between 1974 and 2014 was nearly three times the amount of wildland forest lost in Oregon (Gray et al, 2018).

Lands inventoried as forest land are required to be zoned forest or mixed farm-forest by counties. Approximately 11.8 million acres in Oregon are included in forest or mixed farm-forest zones. Mixed farm-forest zones must comply with both Goal 3 and Goal 4 requirements. A variety of uses are allowed in forest and mixed farm-forest zones. Some activities allowed under the Forest Practices Act (e.g. logging, reforestation) do not require county land use approval. Dwellings may be allowed under certain circumstances. Counties may also permit nonresidential uses that are compatible with farm and forest practices.



The required minimum parcel sizes of 80 acres is intended to support opportunities for economically efficient forest operations, the continuous growing and harvesting of trees, and conservation of natural resource and recreation values consistent with the Forest Practices Act Policy (ORS 527.630).

Minimizing fire risk is a major concern in forest zones and is reflected in siting and fire standards applied to all structural development in designated forest zones. New dwellings and structures are required to have defensible fuel-free space around them. Dwellings must be in a fire protection district or have other sufficient means of suppressing fire such as an onsite lake and sprinklers. Fire retardant roofs and spark arrestors are required for dwellings. County road design requirements for firefighting equipment also need to be met.

## Wildfire

Climate change, population growth, and record levels of forest fuel volumes all contribute to the growing wildfire risk in Oregon. Population growth adds increasing pressure for development of housing stock within the Wildland Urban Interface (WUI). Climate change is anticipated to result in higher rates of tree mortality from droughts, insects and disease, warmer temperatures and changes to hydrologic cycles. All of these factors contribute to increased risk and severity of wildland fires.

Over the past 30 years:

84% of wildfires in Oregon's 31-million-acre wildland - urban interface were human caused

73% of all wildfires on lands protected by ODF were human caused.

In 2018, a total of 2,019 wildland fires burned approximately 892,707 acres of forested and non-forested lands during Oregon's 2018 fire season (Northwest Interagency Coordination Center, 2018). The total cost to fight fires across the state was estimated at over \$500 million for 2018. The 2019 wildfire season was relatively short and mild, a breath of fresh air following two back-to-back challenging fire seasons in 2017 and 2018. That said, 79,732 acres were consumed by 2,293 wildland fires in 2019 (Northwest Interagency Coordination Center, 2019). Over the 2018-2019 biennium, fire danger forced thousands of Oregonians to evacuate their homes. With large blazes consuming hundreds of thousands of acres, destroying structures, damaging recreation sites and pouring hazardous smoke into communities, much of the state also experienced significant economic loss, natural resource damage and threats to watersheds. At the time of drafting this report, the 2020 fire season is ongoing with several active clusters of fires and over a million acres burnt. 2020 has been one of the most destructive years on record in the state of Oregon, significantly exceeding the impact of the 2018 fire season.

Studies suggest that impacts from wildland fires far exceed the direct cost of suppression by over 11x including economic losses, lost taxes, damages to ecosystem services, destruction of infrastructure, depreciated property values, etc. (Headwaters Economics. 2018). As noted above, firefighting costs have exceeded \$500 million during high-fire seasons - meaning that the comprehensive costs to Oregonians from fire-related causes can total several billion dollars in a single year.

Approximately 9,550 km<sup>2</sup> (3,687 sq. mi.) or 3.8% of Oregon's land base is considered to be Wildland Urban Interface (WUI) (Martinuzzi, 2010). These are areas where conditions are conducive to a large scale

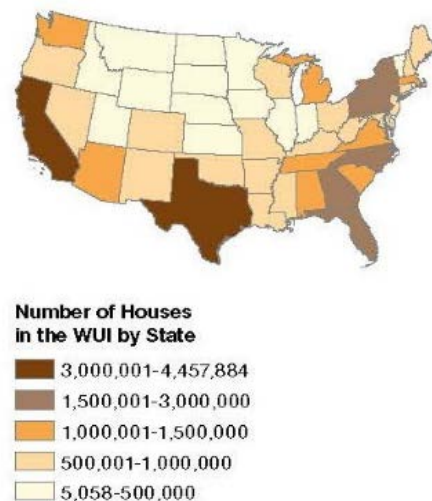


wildland fire disturbance event, thereby posing a significant threat to human life or property. Thirty-six percent of the homes built in Oregon in 2010 were built within the wildland urban interface (WUI) and 80.4% of the vacation homes in Oregon were built in the WUI (Martinuzzi, 2010).

In addition to the increased risk for causing wildfires, the presence of dwellings can significantly alter fire control strategies and can increase the cost of wildfire protection by 50 to 95 percent (Gorte, 2013). In order to protect dwellings, firefighters must devote manpower and resources to activities like establishing fire perimeters, conducting burnouts around structures and addressing combustible materials commonly found around residential structures – like gas, propane and electrical lines. Isolated rural dwellings particularly increase suppression costs. The incremental cost of protecting two homes instead of one within six miles of a wildfire is estimated to be over \$31,000 (Gude et al, 2012). For comparison, the incremental cost of protecting 100 homes instead of 99 homes within six miles of wildfire is estimated at \$319 (Gude et al, 2012).

Oregon's statewide land use planning program significantly limits this kind of residential development on resource lands which helps to minimize wildfire risk, reduces firefighting costs, and protects human lives. The program further discourages conversion of resource lands to more intensively developed uses with an increased risk of fire danger. Oregon requires residential and other developed uses in forest zones and mixed farm-forest zones to incorporate fire safety measures, such as fuel-free breaks around buildings. As illustrated in Figure 10, the land use planning program has helped reduce the number of dwellings built in our WUI since the mid-1980s when compared to other states by limiting development on rural resource lands and requiring development standards intended to mitigate fire risk.

Figure 10: Number of houses in the WUI by state, 2010 (Radeloff 2017)



### Climate adaptation and carbon sequestration

Oregon's forest ecosystems will be significantly affected by anticipated changes to climate in the coming decades. Our forest landscapes are already experiencing altered distributions of plant species, longer fire seasons, and higher numbers of wildfires. Warmer temperatures and changes to hydrologic systems are anticipated to result in increased invasive species and pests, changes in wildlife distribution, and increases in both drought and landslides seasons (Oregon Climate Change Adaptation Framework 2010). All of these factors have the potential to negatively impact our forest lands. At the same time, our forest lands are a critical tool in mitigating climate change.

Forested ecosystems are a basic component of the carbon, oxygen and water cycles. Oregon's forests make an enormous contribution to carbon sequestration. ODF has recently released a report with



estimates for the status and trends of carbon in Oregon's forest ecosystems and ownerships and concludes Oregon's forests have been functioning as a net sink of carbon even after accounting for forest land use conversions and non-CO<sub>2</sub> greenhouse gas emissions from wildfire (Glenn 2019). The report also notes that 58% of the net CO<sub>2</sub> sequestered annually from tree growth occurs in the forests of the Western Cascades and the Oregon Coast Range. ODF concludes that these two regions are the most important in the state for annual carbon flux due to their high rate of annual tree growth, output of wood products and relatively less area impacted by tree mortality. The report also notes that Lane County leads the state in this regard and is responsible for nearly a quarter of all the CO<sub>2</sub>e sequestered each year by Oregon's forests.

State statute specifically prohibits land use regulations limiting forest practices on designated forest lands (ORS 527.722). The Oregon Department of Forestry (ODF) is the agency charged with regulation of forest management practices. Oregon's coordinated land use program was founded to preserve the state's working forest lands for resource use and the value they provide for soil, air and habitat. That includes keeping these lands in production, rather than converting them to other developed uses that release sequestered carbon as well as protecting them for their tremendous potential to store carbon in biomass and in soils. DLCD is currently collaborating with other state agencies to identify opportunities for aligning our various programs and regulatory frameworks to expand on that capacity in ways that can mitigate climate related impacts to our natural working lands.

### **Recreation and tourism**

Both public and private forest lands have long provided a variety of recreational opportunities. Interest in outdoor activities continues to grow across the state. Recreation and tourism in and around forest areas provides personal and societal benefits and generates significant economic activity. Many locations within Oregon, including those near forests, serve as appealing day and overnight destinations for both Oregon residents and out-of-state visitors who participate in outdoor activities. Forest zones allow a variety of recreation and tourism pursuits appropriate to a forest environment. Recreation and tourism opportunities in and near forest areas can be expected to continue to grow in the future.





## IV. Land Use Decisions on Forestland

### Dwellings

Table 4, Forest dwelling approvals, statewide summary, 2018-2019

Dwellings in Forest Zones	Summary of Opportunity*	2018	2019
Large Tract Dwelling	Located on a tract of 160-240 acres depending on the location.	16	20
Lot of Record Dwelling	Located on a parcel owned continuously since 1985 or inherited from someone who owned the parcel continuously since 1985.	11	9
Alternative/Template Test Dwelling	Parcel is located in an area of residential development and parcelization as of 1993.	117	137
Temporary Health Hardship Dwelling	Located on a parcel with an existing dwelling for a caregiver or person suffering a medical hardship.	16	19
Replacement Dwelling	Allows the replacement of a legally established dwelling.	50	56
Family Forestry Dwelling**	Allows a second dwelling to be established on a parcel with an existing dwelling that is in commercial forest use subject to a forestry management plan.		
*The basic essence of the test is described here. All referenced tests have additional, more specific criteria. **This dwelling type became effective in 2020			

In 2018-2019, 451 dwellings were approved on forestlands which is consistent with the trend over the past several years. In 2016-2017 and 2014-2015, 457 and 447 dwellings were approved respectively. Appendix tables 7, 13 and 14 have detailed information on forest dwelling approvals in 2018-2019 and historically. As shown in Figure 11, the bulk of approvals in 2018-2019 were for template test and replacement dwelling which is consistent with historical trends. Since 1994, 56 percent of approvals for dwellings on forestlands have been for template test dwellings and 23 percent have been for replacement dwellings.

In 2019 the legislature authorized a new type of dwelling approval in the forest zone – a family forestry dwelling. This opportunity is for a second dwelling to be established on a parcel that is in commercial forest use with an existing dwelling. Review of a forestry management plan is a condition of this dwelling type. This opportunity became effective January 1, 2020.

### Template Dwellings

“Template dwellings” are allowed on forestland in areas that were subject to certain patterns of development and parcelization up to 1993 when this development option was adopted into statute. Counties may approve template dwellings where a certain amount of pre-1993 dwellings and parcels were



established within a 160 acre “template” centered on the parcel. Locating multiple dwellings in the same area provides greater opportunity for fire protection and services than more remote forest dwellings. Conversely, the statute does not allow “template dwellings” in areas with no or very few existing dwellings, where establishment of new dwellings would introduce greater fire protection issues and create new conflicts with forest practices.

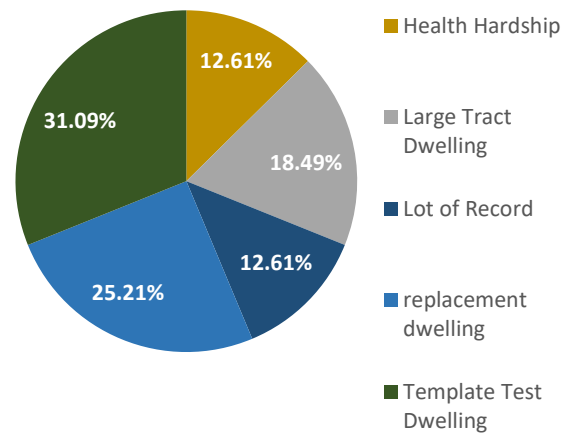
In 2018-2019, 254 template dwellings were approved which is consistent with historical average approvals of 125-180 template test dwellings per year. In 2016-2017 and 2014-2015, 255 and 278 template test dwellings were approved respectively. Template Dwellings account for 56 percent of all dwelling approvals on forestlands since 1994. Additional information on 2018-2109 and historic forest template dwelling approvals are contained in Appendix tables 8, 13 and 14.

The legislature enacted HB 2225 in 2019 to address some “loopholes” in the Forest Template Dwelling Test that have contributed to the high number of approvals. The bill precluded the use of property line adjustments to ‘move’ a parcel into an area where it would qualify for a dwelling, and eliminated an opportunity for a property owner to secure additional template dwelling approvals on contiguous properties following the sale or transfer of a developed property. The new provisions are currently effective in five counties. HB 2225 staggers implementation of the provisions over a four year period in order to reduce mailing costs to the agency related to notices we are required to send to all landowners who may be impacted by legislative changes (“Measure 56 Notices”).

### Large Tract Dwellings

Landowners with large amounts of forest land may construct a dwelling in a forest zone based on the acreage owned. In western Oregon, large tract dwellings must be on ownerships of at least 160 contiguous acres or 200 noncontiguous acres. In eastern Oregon, they must be on ownerships of 240 or more contiguous or 320 or more noncontiguous acres. In 2018-2019, 36 large tract dwellings were approved statewide. This is consistent with the 5- and 10-year averages of 15 large tract dwelling approvals a year. Additional information on 2018-2109 and historic forest dwelling approvals are contained in Appendix tables 7, 13 and 14.

Fig. 11, Forest dwelling approvals by type, 2018-2019

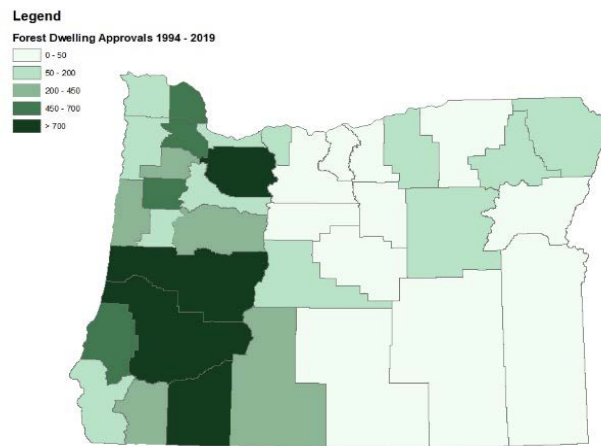




## Lot of Record Dwellings

Forest landowners and families who have owned the same property since 1985 may be eligible for a lot of record dwelling. The property must have a low capability for growing merchantable tree species and be located near a public road. Counties approved 20 lot of record dwellings in 2018-2019. This is consistent with the 10-year averages of 11 large tract dwelling approvals a year. Lot of record dwelling approvals are spread fairly evenly across the state and are on a variety of parcel sizes. Additional information on 2018-2109 and historic forest dwelling approvals are contained in Appendix tables 7, 13 and 14.

Fig. 13, Dwellings approved on forestland 1994-2019, all counties



## Temporary Health Hardship Dwellings

Temporary hardship dwellings are approved for relatives with a medical hardship and must be removed at the end of the hardship. A temporary health hardship dwelling must be sited in conjunction with an existing dwelling and tied into an existing sanitation system. DLCD does not currently track the removal of these dwellings when they are no longer needed.

Counties approved 35 temporary health hardship dwellings in 2018-2019 which is consistent with the 10-year average of 18 temporary health hardship dwelling approvals per year. Additional information on 2018-2109 and historic forest dwelling approvals are contained in Appendix tables 7, 13 and 14.

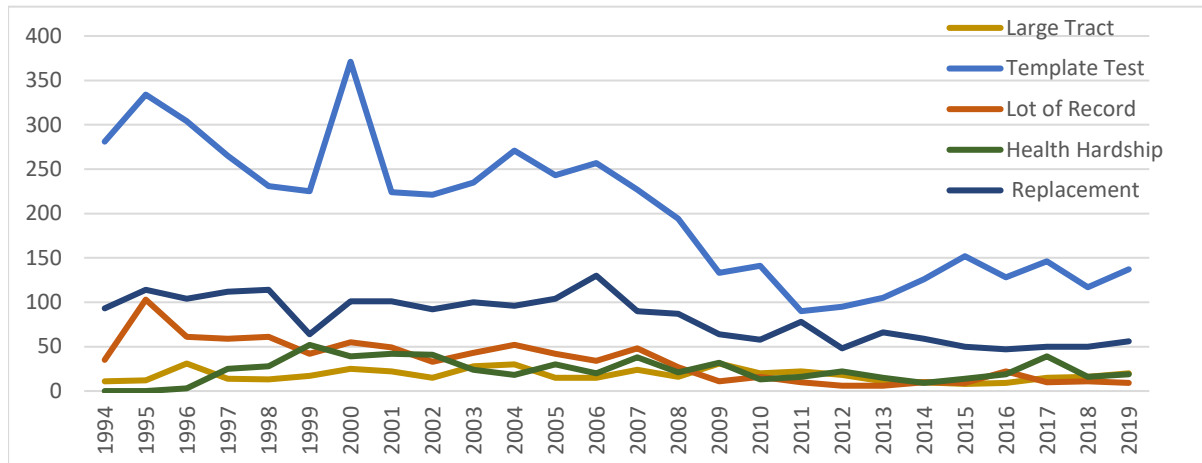
## Replacement Dwellings

A replacement dwelling is a new home that replaces an older dwelling on a parcel. Counties approved a total of 106 replacement dwellings in 2018-2019 which is consistent with the 10-year average of 56 dwelling approvals per year. The dwellings that were designated to be replaced must be removed, demolished or converted to another allowed use within three months of completion of the replacement dwelling.

Forty-seven percent of dwellings approved for replacement were removed, 34 percent were demolished, and 13 percent were converted to non-residential use with 5 percent not specified. Additional information on 2018-2109 and historic forest dwelling approvals are contained in Appendix tables 7, 13 and 14.



Fig. 12, Total dwelling approvals on forest land by year, all counties, 1994–2019

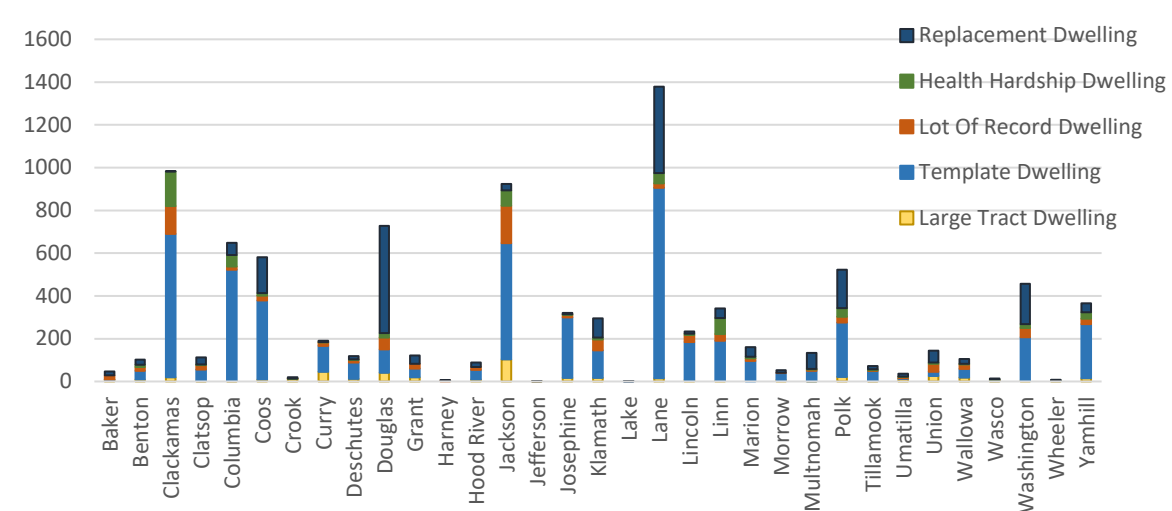


### Cumulative dwelling approvals

Between 1994 and 2019, over 9,000 dwellings of all types were approved on forest land across the state. Figures 12 and 14 show the number of dwelling unit approvals since 1994 for the different dwelling types. A total of 9,308 dwellings were approved over this timeframe. Additional details are provided in Appendix tables 13 and 14.

Fifty-six percent of all dwelling approvals from 1994-2019 were template dwellings, 23 percent were replacement dwellings, nine percent were lot of record, six percent temporary hardship, and five percent large tract dwellings. Fifteen percent of all forest dwelling approvals during this timeframe occurred in

Fig. 14, Total dwelling approvals on forest land, by county, 1994–2019





Lane County with 1,378 dwellings approvals, 890 of which were template dwellings. The map in Figures 12 and 14 shows dwellings approvals on forest land from 1994- 2019.

### **Nonresidential uses**

In addition to a range of traditional forest-related uses, the commission has recognized that some non-forest uses are acceptable in forest and mixed farm-forest zones. These uses are set forth in OAR 660-006-0025 for forest zones and OAR 660-006-0050 for mixed farm-forest zones. Mixed farm-forest zones provide opportunities for all those nonresidential uses permitted in EFU zones and those uses permitted in forest zones. Non-forest uses are subject to local land use approval and must demonstrate that they will not force a significant change in or significantly increase the cost of accepted farm or forest practices on farm or forest land and that they will not significantly increase fire hazard risk, fire suppression costs or the risk to fire suppression personnel. Appendix table 9 provides detailed data on nonresidential uses approved on forest and mixed farm-forest land in 2018-2019. The most commonly approved uses in 2018-2019 were agricultural buildings, marijuana production, residential accessory structures, home occupations and telecommunication facilities. Approvals in Jackson County accounted for 14 percent of all nonresidential permits issued in forest and mixed farm-forest zones in 2018-2019. Nearly half of the approvals in Jackson County were for marijuana production.

### **Land divisions**

Counties authorized creation of 57 new parcels on forestland in 2018-2019. These numbers represent a slight decrease from the 2016-2017 and 2014-2015 biennium.

In 2018-2019, 13 parcels, or 23 percent of divisions, met the minimum parcel size of 80 acres. Non-forest land divisions are allowed in only a few circumstances, including the creation of a parcel or parcels to separate one or more existing dwellings on a property and for certain approved conditional uses. Counties may also approve a substandard division along an urban growth boundary (UGB). The most common reported reason for creating smaller parcels in 2018-2019 was to divide a parcel that has multiple dwellings (8 approvals).

### **Property line adjustments**

Property line adjustments on forest land may occur for a variety of reasons. Occasionally they are used to adjust parcels to areas where they can be approved for dwellings. Many of the reported property line adjustments involve more than two tax lots. In 2018, counties approved 115 property line adjustments and approved 74 in 2019, for total of 189 adjustments on forest land.



## V. Conversion: Zone changes, UGB Expansions and Other Metrics for Consideration

A primary goal of Oregon's land use program is the preservation of working agricultural and forest lands. Thus, the less agricultural and forest land that is converted to urban and rural development relative to the total amount zoned for exclusive farm use or forest use, the greater the indication that the land use program is working.

DLCD has traditionally measured conversion by tracking the amount of land that has been re-zoned from EFU and forest to other zones and by the amount of EFU and forest land added to Urban Growth Boundaries (UGBs). By 1986, LCDC had acknowledged the majority of local comprehensive plans and ordinances to be in compliance with statewide planning goals, thus making 1987 an appropriate base year from which to measure the success of the land use program. At that time approximately 16.1 million acres of land in Oregon were zoned EFU and 11.7 million acres were zoned forest. For comparison, information from three other sources that take different approaches to measuring resource land conversion has been included below as well.

### Zone Changes

Table 5, Zone changes involving agricultural lands, statewide summary, 2018-2019							
Year	From EFU to Rural (Acres)	From EFU to Urban (Acres)	From EFU to Forest (Acres)	From EFU to Aggregate (Acres)	To EFU from Other Zone (Acres)	Total Rezone (Acres)	Net Rezone (Acres)
2018	400	194	112	160	269	1,059	790
2019	364	1,294	83	124	143	1,865	1,722
Total	2,781	1,321	278	408	4,789	555	2,512

Local governments rezoned 2,512 acres of EFU land to other uses in the 2018-2019 biennium. From a base of 16.1 million acres of EFU-zoned land in 1987, a total of 37,983 net acres have been rezoned from EFU to other urban and rural uses through 2019. **This means that 99.8 percent of land zoned EFU in 1987 was still zoned EFU in 2019.**

Table 6, Zone changes involving forestlands, statewide summary, 2018-2019							
Year	From Forest to Rural (Acres)	From Forest to Urban (Acres)	From Forest to EFU (Acres)	From Forest to Aggregate (Acres)	Total Rezone (Acres)	To Forest from Other Zone (Acres)	Net Rezone (Acres)
2018	111	43	262	147	565	228	337
2019	163	0	0	58	221	83	138
total	274	44	263	205	786	311	475



475 acres of forest land were rezoned in the 2018-2019 biennium. From a base of 11,766,543 acres in 1987, a total of 10,813 net acres have been rezoned from Forest to other urban and rural uses through 2019. **This means that 99.9 percent of land zoned forest in 1987 was still zoned forest in 2019.**

Counties usually approve rural zone changes in order to allow land uses that otherwise would not be permitted in an EFU or forest zone. Examples include clustered rural residential parcels, mineral and aggregate quarries, and institutional uses such as schools serving an urban population. **The majority of zone changes for both classes of resource lands have been to rural residential use accounting for more than half of the re-designations in both cases.**

A zone change typically includes an exception to Statewide Planning Goals 3 or 4 based on existing development, development patterns on surrounding lands, or other reasons unique to the properties involved. A goal exception is not required if it can be demonstrated that a parcel does not qualify as agricultural or forest land and is therefore 'nonresource' land. Appendix tables 11, 17 and 18 contain detailed information on zone changes involving resource lands from 1989-2019.

### Nonresource Land Designations

In 2009, the Legislature adopted provisions that allow counties to designate land for nonresource use (see ORS 215.788 – 794). This process requires coordination with state agencies to ensure such lands are truly nonresource and that future development would not conflict with wildlife, water quality, or increase the costs of public facilities and services. Counties and landowners have not used this process but rather continue to designate rural resource lands on a case by case basis through comprehensive plan amendments. Ten counties have designated rural resource lands as shown in the table below. Several counties have recently expressed interest conducting countywide evaluations of land that could be rezoned for nonresource use.

Table 7, Acres of nonresource designations, by county

County	Acres Designated Prior to 2018	Acres designated in 2018-2019
Clatsop	2,351	
Crook	23,261	
Deschutes	452	
Douglas	3,341	
Jackson	545	
Josephine	15,573	
Klamath	34,797	80
Linn	122	109
Lane	559	54
Wasco	7,047	
Total	88,048	243

Rural resource lands (commonly referred to as nonresource lands) are rural lands that do not meet the state's definition of agricultural or forest lands. Rural resource lands are not subject to Statewide Planning Goals 3 and 4 and may be zoned by counties for other uses. These lands are commonly rezoned for rural residential development with minimum parcel sizes of 10 acres or less.



## Urban Growth Boundary (UGB) Expansions

Table 8, Urban growth boundary expansions involving agricultural lands, statewide summary, 2018-2019

Year	Acres to be added to UGB	Acres Removed from UGB	Net Acres Added to UGB	EFU Acres Removed from County	EFU Added to County**	Net EFU Loss*	% of Land Added to UGB from EFU	Net EFU % of Net Land Added*
2018	415	208	99	194	0	194	47%	86%
2019	2,497	142	2,355	1,294	138	1,156	52%	49%
* "Zone swaps" include acreage added to EFU as well as acreage removed from EFU and added to an UGB.								
**Reflects only acreage designated EFU reviewed as part of a UGB expansion proposal.								

Table 9, Urban growth boundary expansions involving forest lands, statewide summary, 2018-2019

Year	Acres to be added to UGB	Acres Removed from UGB	Net Acres Added to UGB	Forest Acres Removed from County	Forest Added to County**	Net Forest Gain*	% of Land Added to UGB from Forest	Net Forest % of Net Land Added*
2018	415	208	99	44	108	64	11%	-15%
2019	2,497	142	2,355	0	0	0	0%	0%
* "Zone swaps" include acreage added to EFU as well as acreage removed from Forest and added to an UGB.								
**Reflects only acreage designated Forest reviewed as part of a UGB expansion proposal.								

Urban growth boundaries (UGBs) help prevent conversion of irreplaceable farm and forest lands, while limiting the cost of services associated with expansion of urban infrastructure into rural areas. Cities must have a 20 year supply of land within UGBs to meet their residential, commercial, and industrial needs. Periodically cities and counties must expand UGBs onto rural lands to meet those needs. Lands zoned EFU, forest, and mixed farm-forest are given lower priority for inclusion in UGBs than lands already zoned for rural development or nonresource lands.

DLCD tracks and reports on the amount of land zoned EFU that is added to UGBs. Performance on this measure has varied widely from year to year over the past decade, reaching a low of 8% converted resource lands in 2015 and reaching a high of 86% of converted resource lands in 2014. **In the past biennium, 1,487 acres of land previously zoned EFU and 44 acres of forest land were added to UGBs accounting for 53% of lands added.** Given the inter-annual variability in acreage added to UGBs, a longer look at trends in this area is merited. Between 1987 and 2019, local governments added just over 62,000 acres to UGBs statewide. Of this amount, 44 percent of land added was zoned EFU, forest or mixed farm-forest and 56 percent was in other rural zones. Appendix tables 11 and 16 contain additional information on UGB expansions involving resource lands for 2018-2019 and from 1989 to 2019.



A recent trend in UGB expansions has been ‘zone swaps’ where some amount of land meeting the definition of agricultural land is designated as EFU while some amount of land is moved into the urban growth boundary and re-designated for urban uses. These ‘zone ‘swaps’ occurring with UGB amendments account for the majority of the acreage added to EFU zone in the past biennium. **In the past biennium, 1,285 net acres of EFU and forest land were lost to UGB expansions which accounts for 52% of net acres added to UGBs.**

### Other Metrics for Evaluating Conversion

While the state’s policy recognizes the significant role resource zoning plays in limiting alternative uses of farm and forest lands, many nonfarm and nonforest uses are allowed in statute and have the potential to contribute to de facto conversion of working lands even while the protective EFU and forest zoning remains in place. Zone changes may not capture actual conversion of agricultural and forest lands developed for permitted nonfarm or nonforest uses or pursuant to Measure 37 or Measure 49 orders (neither of which require actual rezoning of the land from EFU or forest to another zoning designation).

There are three additional data sources for considering farmland conversion in Oregon noted here: the USDA National Agricultural Statistics Service (NASS) Census of Agriculture, the ODF “Forests, Farms and People” report, and the “Farms Under Threat: State of the States” report released in 2020 by the American Farmland Trust (AFT).

**Resource Zoning:** As highlighted above, 99.8 percent of land zoned EFU in 1987 was still zoned EFU in 2019. 2,512 acres of EFU land were rezoned in the 2018-2019 biennium. From a base of 16.1 million acres of EFU-zoned land in 1987, a total of 37,983 net acres have been rezoned from EFU to other urban and rural uses through 2019.

99.9 percent of land zoned forest in 1987 was still zoned forest in 2019. 475 acres of forest land were rezoned in the 2018-2019 biennium. From a base of 11,766,543 acres in 1987, a total of 10,813 net acres have been rezoned from Forest to other urban and rural uses through 2019.

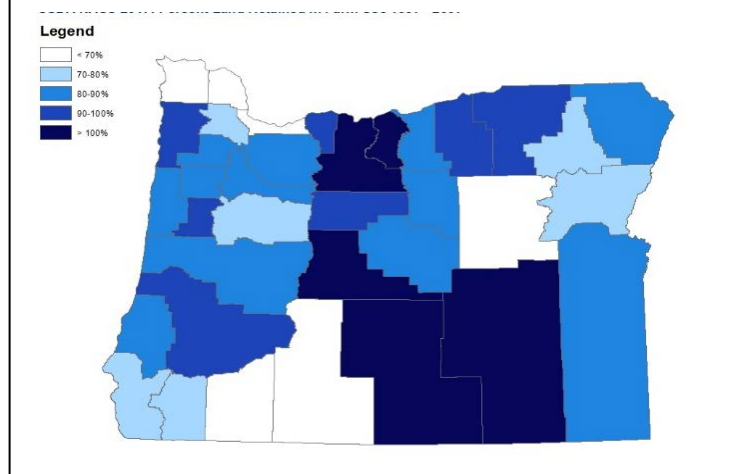


### USDA NASS 2017 Census of Agriculture:

USDA reports the current amount of land in farm use in Oregon at 15.9 million acres which is only 90% of the 17.7 million acres reported in farm use in 1997. The results represent a more significant decline in acres reported in farm use when compared to a measurement of whether land is maintained in EFU zoning.

The Census of Agriculture has been conducted on five-year intervals since 1982. The responsibility for the census was transferred from the Bureau of Census to USDA in 1997. Over the twenty-year period, increases in working farm acreage were reported in five counties: Deschutes, Lake, Sherman, Harney and Wasco, while losses exceeding 30% were reported in six counties: Columbia, Grant, Clatsop, Jackson, Klamath and Multnomah. Appendix table 19 contains additional information from the 2017 Census of Agriculture on farmland conversion in Oregon from 1997 to 2017.

Fig. 15, Percent land retained in farm use, by county, 1997-2017 (USDA 2017)



**Oregon Department of Forestry (ODF) “Forest, Farms & People: Land Use Change on Non-Federal Land in Oregon 1974 – 2014”<sup>6</sup>:** ODF performed land use cover review based on interpretation of aerial imagery for seven different years between 1974 and 2014. Based on that review, they categorized non-federal land into one of five resource land categories or into urban or low-density residential lands. ODF found that from a base of 15.4 million acres categorized as cropland, rangeland or mixed farm-rangeland land in 1984, 98.8% (15.4 million acres) was retained in 2014. However, the report also identifies less acreage in these land cover categories than is protected under resource zoning. As discussed above, Oregon’s policies for agricultural lands and forest lands both acknowledge the need to preserve lands that are part of a cohesive working landscape in order to limit fragmentation and conflicting development, even when those lands may not be as productive as surrounding working lands. This may contribute to the difference in base acreage under resource zoning as tracked by DLCD and acreage in resource landscape cover as reported by ODF.

Table 10, Area of non-federal land in Oregon by land use class and year (ODF 2016)

	1984	1994	2000	2005	2009	2014	Land Retained
forest	10,570,000	10,512,000	10,497,000	10,468,000	10,455,000	10,446,000	98.83%
mixed farm forest	901,000	877,000	876,000	864,000	855,000	853,000	94.67%
SubTotal Forest/Mixed Forest	11,471,000	11,389,000	11,373,000	11,332,000	11,310,000	11,299,000	98.50%

<sup>6</sup> ODF will be publishing data through 2018 shortly. This section of the report will be updated with most current numbers prior to submission to the legislature. Updates will include ~18,000 acres converted to residential use and a net loss of ~16,000 acres of resource land over the 2014-2018 period.



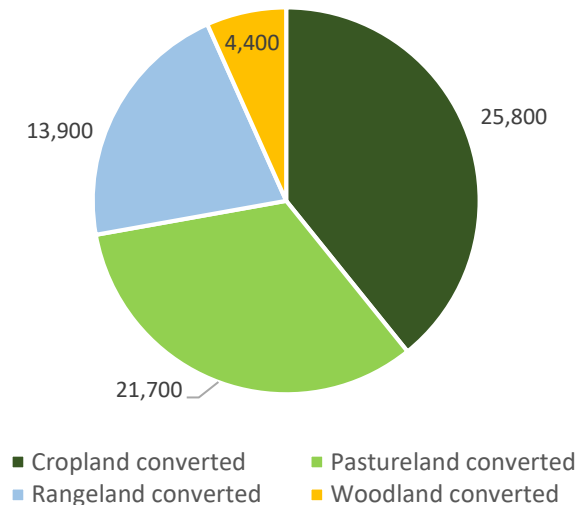
range	9,164,000	9,116,000	9,087,000	9,045,000	9,034,000	9,013,000	98.35%
mixed range forest	664,000	666,000	678,000	690,000	690,000	699,000	105.27%
cropland	5,806,000	5,786,000	5,757,000	5,747,000	5,733,000	5,740,000	98.86%
SubTotal Ag Land	15,634,000	15,568,000	15,522,000	15,482,000	15,457,000	15,452,000	98.84%

**American Farmland Trust 'Farms Under Threat: State of the States':** The report documents a multi-year effort to document the extent of agricultural land in four categories across the continental U.S. and assess the conversion of those lands to urban and rural residential use in the period from 2001 and 2016. The American Farmland Trust (AFT) also assigned scores to each state based on a suite of policy and incentive tools related to farmland preservation. Oregon ranked ninth in the nation, primarily based on the strength of our land use planning and farm tax assessment programs.

AFT estimates 65,800 acres of agricultural lands were converted during the 2001-2016 period – which is more than double the amount of land re-zoned from EFU to other designations during the same period (24,256 acres). Of those 65,800 acres, the report identifies 32,800 acres as converted to urban and highly developed uses while 33,000 acres were converted to low-density residential uses.

In the past, conversations around farmland preservation have focused on constraining urban sprawl. There is a growing concern within farmland preservation communities about recent trends in increasing low-density rural development. This happens even while land remains under exclusive farm use zoning. The report by AFT found that agricultural land in areas with patterns of scattered large-lot residential development were 95 times more likely to be converted to urban and high-density development over the five-year period than agricultural lands in large, cohesive blocks of working land. This is a concern to keep in mind as Oregon considers the number of nonfarm and non-forest land use approvals and development on working lands - historically and over the 2018-2019 biennium.

Fig. 16, Acres of farmland converted by use type, 2001-2016 (AFT 2020)

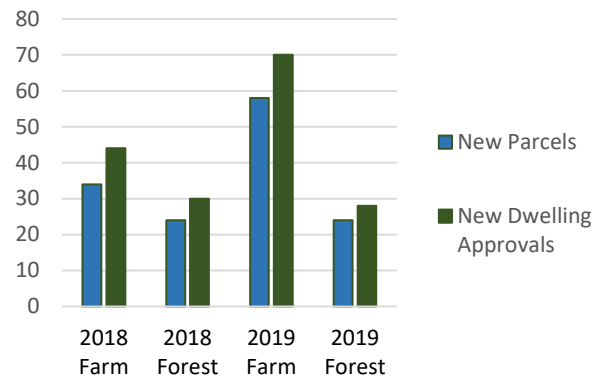




## VI. Ballot Measures 37 and 49

If a state or local government enacts a land use regulation that restricts a residential use or a farm or forest practice, and thus has the potential to reduce the fair market value of a property, then the landowner may qualify for compensation under Ballot Measure 49. Oregon voters initially passed Ballot Measure 37 in 2004, which was later modified by the Oregon legislature and approved by the voters in 2007 as Ballot Measure 49. Enactment of Measure 49 retroactively voided some Measure 37 claims. Measure 49 relief for former Measure 37 claims ended in 2011. DLCD received 4,960 Measure 49 claims and authorized 3,542 claims for residential development. The difference between claims received and authorizations issued is partly due to multiple claims being filed for contiguous properties. Under Measure 49, contiguous properties were combined into single claims.

Fig. 17, Approvals pursuant to M49, 2018-2019



The vast majority of claims were resolved by granting reversionary development rights rather than providing compensation for lost property value. Due to the variability in receiving notice of Measure 49 development from counties, DLCD periodically estimates the total numbers of Measure 49 dwellings built and parcels created since 2009, when the first authorizations were issued. This is accomplished by analyzing county tax assessor's data for counties that share this data. DLCD estimated that by 2016, 12 percent of new dwellings and 28 percent of new parcels authorized by Measure 49 had been completed.

Appendix table 15 shows the number of new dwellings and new parcels authorized under Measure 49 for each county. A total of 6,417 new dwellings and 4,096 new parcels were authorized. Approximately 90 percent of Measure 49 approvals have been on land in farm and forest zones.

Measure 49 authorizations are tied to a specific property and may be conveyed to a new owner when the property is sold. Unless the new owner is a spouse or revocable trust, all authorized Measure 49 development must be completed within ten years of the property conveyance. DLCD anticipates that Measure 49 development will increase in the coming years as properties conveyed in 2009 and 2010 near the ten year deadline.

Many claimants who had completed development or who were vested in their Measure 37 projects on the date Measure 49 was enacted did not file a Measure 49 election. County approvals of Measure 37 developments are not included in this report. DLCD is working on tracking these developments and intends to provide that information in future reports.



## VII. 2018 - 2019 Statutory and Rule Changes for Farm and Forest Lands

### Statutory amendments

#### Statutory Amendments, 2018-2019

2018	SB 1533 A	Allows equine therapy (nonclinical) as a new use in exclusive farm use zones and mixed farm-forest zones.
2019	HB 2106	Allows dog training classes to be conducted in farm buildings existing on January 1, 2019 within counties that adopted marginal lands provisions. Allows counties to approve up to five additional one-year extensions of land use permits for residential development.
2019	HB 2222	Requires ODF to report annually on the development, implementation and administration of a Forestland-Urban Interface Protection Act.
2019	HB 2225	Clarifies the method used for determining “center of tract” when establishing a forest template dwelling. Prohibits the use of property line adjustments to qualify a parcel for a template dwelling. Prohibits the use of deed transfer to qualify parcels for template dwellings. Allows exceptions until November 1, 2023. Establishes effective dates by county.
2019	HB 2435	Repeals sunset on law allowing guest ranches to be established on lands zoned for exclusive farm use in eastern Oregon. Requires new guest ranches to report on operations to county.
2019	HB 2469	Allows a second dwelling on forestlands within the rural fire protection district near an existing dwelling for the owner or relative who supports the owner’s forestry practices.
2019	HB 2573	Reduces the income test for adding a dwelling on a cranberry farm for three years provided the farm owner or operator agrees to a deed restriction preventing the use of the dwelling for rentals.
2019	HB 2844	Allows facilities for processing farm products under 2,500 sq. feet on lands zoned for exclusive farm use without regard to siting standards.
2019	HB 3024	Prohibits county from considering property tax classification of dwellings that were previously removed, destroyed, demolished or converted to nonresidential uses when reviewing application for replacement dwelling on lands zoned for exclusive farm use.
2019	HB 3384	Allows for expansion of non-conforming secondary schools if the school was established on or before January 1, 2009 and the additional property is contiguous and on the same tax lot on which the school was established.
2019	SB 287	Allow a farm brewery on lands zoned for exclusive farm use or mixed farm and forest use provided the brewery produces less than 150,000 barrels annually, less than 15,000 barrels on the farm brewery site and either owns an on-site hop farm of 15 acres or obtains hops from contiguous properties.
2019	SB 408	Allows a county to approve certain divisions of land zoned for exclusive farm use for the purpose of siting utility facilities.
2019	HB 2790	Allows counties to require mass outdoor gathering of more than 3,000 people, except for agri-tourism events, to obtain land use permit. Allows counties to charge larger fee for approval of larger mass outdoor gatherings.



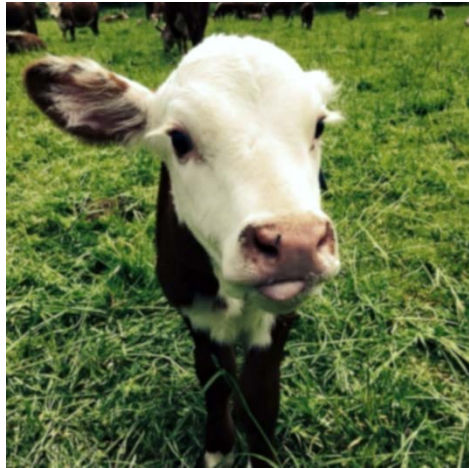
2019	HB 2329	Revises the jurisdiction of the Energy Facility Siting Council for solar energy facilities and provides for county land use approval subject to certain conditions.
------	---------	---

**Rule amendments, 2018-2019**

2019	Solar Rule Revisions	OAR 660-033-0130(38) was revised to modify requirements for siting solar power facilities on high-value farmland.
------	----------------------------	---



## VIII. Conclusion



Oregon's farm and forest land protection program has provided a significant level of protection to the state's working landscapes over the last several decades. As shown in Figure 16, the total acres of farm and forest lands converted to low density residential and urban uses in Oregon has slowed considerably since the adoption of county comprehensive plans in 1984.

Over the years, the Legislature and LCDC have continued to refine the state's agricultural and forest land protections to accommodate changing needs and regional variation. As Oregon continues to change, it is important to remember the valuable role that agricultural and forest lands provide to the food and economic needs and health of all Oregonians. Agricultural and

forest lands are also critical for the various industries that depend on Oregon produced farm and forest products and businesses that thrive on recreation and tourism opportunities. Maintaining the land base necessary to support agricultural and forestry operations is a critical component of a prosperous Oregon.



## References

- American Wind Energy Association (2019). Wind Energy in Oregon. Retrieved from <https://www.awea.org/Awea/media/Resources/StateFactSheets/Oregon.pdf>
- Brekken, C.A., Gwin, L., Horst, M., McAdams, N., and Martin, S.A. (2016). The Future of Oregon's Agricultural Land. Institute of Portland Metropolitan Studies Publications. 148. Retrieved from <https://pdxscholar.library.pdx.edu/metropolitanstudies/148>
- Chun, Nicholas (2017). An Emerging Contradiction: Non-Farm Activity within Exclusive Farm Use Zones. Retrieved from <https://metroscap.imspx.org/an-emerging-contradiction-nonfarm-activity-within-exclusive-farm-use-zones>
- Glenn A. Christensen<sup>1</sup>, Andrew N. Gray<sup>1</sup>, Olaf Kuegler<sup>1</sup>, & Andrew C. Yost<sup>2</sup> (2019) Oregon Forest Ecosystem Carbon Inventory: 2001-2016. <https://www.oregon.gov/odf/forestbenefits/Documents/Forest%20Carbon%20Study/OR-Forest-Ecosystem-Carbon-2001-2016-Report-FINAL.pdf>
- Gray, A.N., Hubner, D., Lettman, G.J., McKay, N., Thompson, J.L. (2016). Forests, farms & people: Land use change on non-federal land in Oregon 1974-2014. Oregon Department of Forestry. Retrieved from <http://hdl.handle.net/1957/58941>
- Gray, A.N., Hubner, D., Lettman, G.J., Thompson, J.L., Tokarczyk, J. (2018). Land Use Change on Non-Federal Land in Oregon and Washington. Oregon Department of Forestry.
- Gorte, Ross (2013). The Rising Cost of Wildfire Protection. Headwaters Economics. Retrieved from <http://headwaterseconomics.org/wp-content/uploads/fire-costs-background-report.pdf>
- Governor's Council on Wildfire Response (2019). November 2019: Report and Recommendations. /
- Gude, P.H., Jones, K., Rasker, R., and Greenwood, M.C. (2012). How much do homes contribute to wildfire suppression cost? Evidence from Oregon and California. Headwaters Economics. Retrieved from [http://headwaterseconomics.org/wpcontent/uploads/ORfire\\_Manuscript\\_Jan12.pdf](http://headwaterseconomics.org/wpcontent/uploads/ORfire_Manuscript_Jan12.pdf)
- Headwaters Economics (2018). <https://headwaterseconomics.org/wp-content/uploads/full-wildfire-costs-report.pdf>
- Horst, Megan (2018). Analysis of Oregon farmland sales 2010-2015. Retrieved from [https://www.pdx.edu/cus/sites/www.pdx.edu.cus/files/PSU\\_Horst%20Oregon%20Farmland%20Sales%20Assessment%20Spring8.pdf](https://www.pdx.edu/cus/sites/www.pdx.edu.cus/files/PSU_Horst%20Oregon%20Farmland%20Sales%20Assessment%20Spring8.pdf)
- Mucken, A., & Bateman, B. (Eds.) (2017). Oregon's 2017 Integrated Water Resources Strategy. Oregon Water Resources Department. Salem, OR. Retrieved from [https://www.oregon.gov/owrd/WRDPublications1/2017\\_IWRS\\_Final.pdf](https://www.oregon.gov/owrd/WRDPublications1/2017_IWRS_Final.pdf)
- Northwest Interagency Coordination Center (2018). Northwest Annual Fire Report. Retrieved from [https://gacc.nifc.gov/nwcc/content/pdfs/archives/2018\\_NWCC\\_Annual\\_Fire\\_Report\\_FINAL.pdf](https://gacc.nifc.gov/nwcc/content/pdfs/archives/2018_NWCC_Annual_Fire_Report_FINAL.pdf)



Northwest Interagency Coordination Center (2019). Northwest Annual Fire Report. Retrieved from [https://gacc.nifc.gov/nwcc/content/pdfs/archives/2019\\_NWCC\\_Annual\\_Fire\\_Report\\_Final.pdf](https://gacc.nifc.gov/nwcc/content/pdfs/archives/2019_NWCC_Annual_Fire_Report_Final.pdf)

Oregon Community Food Systems Network (2018). State of the Food System. Retrieved from <http://ocfsn.net/state-of-the-food-system/>

Oregon Department of Agriculture (2020). State of Oregon Agriculture. Retrieved from <https://www.oregon.gov/ODA/shared/Documents/Publications/Administration/BoardReport.pdf>

Oregon Department of Agriculture (2020). Oregon Agricultural Statistics & Directory 2020. <https://www.oregon.gov/oda/shared/Documents/Publications/Administration/AgStatsDirectory.pdf>

Oregon Department of Forestry (2017). 2017 Wildfire Report. Retrieved from [https://www.oregon.gov/ODF/Documents/Fire/2017\\_ODF\\_Protection\\_Fire\\_Season\\_Report.pdf](https://www.oregon.gov/ODF/Documents/Fire/2017_ODF_Protection_Fire_Season_Report.pdf)

Oregon Forest Resources Institute (2020). Oregon Forest Facts 2019-2020 Edition. Retrieved from [https://oregonforests.org/sites/default/files/2019-01/OFRI\\_2019-20\\_ForestFacts\\_WEB.pdf](https://oregonforests.org/sites/default/files/2019-01/OFRI_2019-20_ForestFacts_WEB.pdf)

Martinuzzi, Sebastián Susan I. Stewart, David P. Helmers, Miranda H. Mockrin, Roger B. Hammer, and Volker C. Radeloff (2010). The 2010 Wildland-Urban Interface of the Conterminous United States. [https://www.fs.fed.us/nrs/pubs/rmap/rmap\\_nrs8.pdf](https://www.fs.fed.us/nrs/pubs/rmap/rmap_nrs8.pdf)

Radeloff, Volker C.; Helmers, David P.; Kramer, H. Anu; Mockrin, Miranda H.; Alexandre, Patricia M.; Bar Massada, Avi; Butsic, Van; Hawbaker, Todd J.; Martinuzzi, Sebastián; Syphard, Alexandra D.; Stewart, Susan I. (2017). The 1990-2010 wildland-urban interface of the conterminous United States - geospatial data. 2nd Edition. Forest Service Research Data Archive. Retrieved from <http://silvis.forest.wisc.edu/data/wui-change/>

Richmond, Henry R. & Houchen, Timothy G (2015). Farm Zoning and Fairness in Oregon 1964-2014. American Land Institute.

Solar Energy Industries Association (2020). State Solar Spotlight - Oregon. Retrieved from <https://www.seia.org/sites/default/files/2020-09/Oregon.pdf>

Sorte, Bruce & Rahe, Mallory. Oregon State University Extension Service (2015).

Oregon Agriculture, Food and Fiber: An Economic Analysis. Retrieved from <http://www.oregon.gov/ODA/shared/Documents/Publications/Administration/OregonEconomicReport.pdf>

USDA (USDA (2017). Census of Agriculture. Retrieved from [https://www.nass.usda.gov/Publications/AgCensus/2017/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Oregon/](https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Oregon/)

U.S. Forest Service (Photographer. (1989). Retrieved from <https://www.flickr.com/photos/forestservicenw/36796830610>

Wonderlane (Photographer). (2011). Retrieved from <https://flic.kr/p/auRfwy>



## APPENDIX

### 2018-2019 Data Tables

Table 1	All Dwelling approvals on Farmland, type and county, 2018–2019
Table 2	Primary farm dwelling approvals, option and county, 2018–2019
Table 3	Primary farm dwelling approvals on Farmland, parcel size and county, 2018–2019
Table 4	Nonfarm dwelling approvals on Farmland, parcel size and county, 2018–2019
Table 5	Nonresidential use approvals on Farmland, 2018–2019
Table 6	New parcel approvals on Farmland, parcel size and county, 2018–2019
Table 7	Dwelling approvals on Forestland by type and county, 2018–2019
Table 8	Template dwelling approvals on Forestland, parcel size and county, 2018–2019
Table 9	Nonresidential use approvals on Forestland, 2018–2019
Table 10	New parcel approvals on Forestland, parcel size and county, 2018–2019
Table 11	UGB expansions and zone changes on Farm and Forest Land, by county, 2018–2019

### Historical Data Tables

Table 11	Dwellings approvals on Farmland, by county, 1994–2019
Table 12	Dwellings approvals on Farmland, by year, 1994–2019
Table 13	Dwellings approvals on Forestland, by county, 1994–2019
Table 14	Dwellings approvals on Forestland, by year, 1994–2019
Table 15	Total Measure 49 authorizations, by county
Table 16	Farm and Forest Land included in UGBs by Year, 1989 – 2019
Table 17	Farmland zone changes, 1989–2019
Table 18	Forest and mixed farm-forest zone changes, 1989–2019
Table 19	USDA NASS Acres in Farm Use by County 1997 - 2017

Table 1, All Dwelling approvals on Farmland, type and county, 2018–2019

County	Primary Farm			Accessory Farm			Relative Help			NonFarm Dwelling			Lot of Record			Replacement			Health Hardship		
	2018	2019	Total	2018	2019	Total	2018	2019	Total	2018	2019	Total	2018	2019	Total	2018	2019	Total	2018	2019	Total
Baker			0		1	1		1	1			0		1	1	7	3	10	2		2
Benton		2	2			0			0			0			0	4		4	1	2	3
Clackamas	1	1	2			0	4	1	5		1	1	1	1	2	2	3	5	6	9	15
Clatsop			0			0			0		1	1			0		1	1			0
Columbia		2	2	1	1	2			0			0			0	2		2			0
Coos			0			0	1	1	2			0			0	2	2	4			0
Crook	3	2	5	2	2	4	2		2	9	1	10	3	3	6	4		4		1	1
Curry			0			0			0			0			0			0			0
Deschutes		1	1	1		1	1		1	23	21	44	3	1	4	15	14	29	7	11	18
Douglas	3	3	6			0	6	8	14	9	5	14		1	1	14	20	34	4	1	5
Gilliam			0		1	1	1		1	1	1	2			0			0			0
Grant	3	1	4			0	1	1	2	1	4	5	3	1	4	5	4	9			0
Harney	1	1	2		1	1	2	1	3		4	4	1		1		3	3			0
Hood River	1		1	9	10	19			0	1		1	2	1	3	13	9	22	1	1	2
Jackson	1		1			0	1	2	3	5	6	11		1	1	1	2	3	3	3	6
Jefferson	1	2	3	1		1			0		2	2	1		1	5	4	9	1		1
Josephine			0	1		1			0	1	1	2			0		1	1			0
Klamath	1	1	2			0			0	1	1	2			0			0			0
Lake	6	2	8	3		3	1		1	24	15	39			0	6	6	12			0
Lane			0			0	1	2	3	1	4	5			0	7	13	20	2	3	5
Lincoln			0			0			0			0			0			0			0
Linn	2	1	3	2	3	5	1	2	3	5	3	8	1	1	2	30	25	55	9	8	17
Malheur			0		4	4			0	10	4	14			0	6	9	15	1	1	2
Marion	1	3	4	4	4	8			0	3	2	5	1	1	2	9	7	16	11	11	22
Morrow			0	1		1	1	1	2	4	5	9	1		1		2	2			0
Multnomah			0			0			0			0			0		2	2			0
Polk	1	1	2		3	3	1	3	4			0		1	1	18	15	33	4	5	9
Sherman		1	1			0			0	3	2	5			0	1	1	2			0
Tillamook	1	2	3	1	1	2	1	1	2	2	2	4			0	8	2	10			0
Umatilla		1	1	3	1	4	1	1	2	2	2	4	1		1	21	15	36	1		1
Union	1	2	3		1	1	1		1	3	2	5	2	1	3	12	5	17		1	1
Wallowa	8		8			0	1		1		1	1	5	2	7	3	4	7			0
Wasco	3		3			0			0	4		4	1		1	6	4	10	1		1
Washington	3		3		1	1	1		1	2		2	3	6	9	9	10	19		1	1
Wheeler	2		2	1		1			0		1	1			0	2	1	3			0
Yamhill	4	6	10			0	2	3	5	1	1	2			0	1	2	3	11	6	17
Grand Total	47	35	82	30	34	64	31	28	59	115	92	207	29	22	51	213	189	402	65	64	129

Table 2, Primary farm dwelling approvals, option and county, 2018-2019

County	Total			HV Income		Non-HV Income		Large Lot		HV Capability	
	2018	2019	Grand Total	2018	2019	2018	2019	2018	2019	2018	2019
Baker	0	0	0								
Benton	0	2	2		2						
Clackamas	1	1	2	1	1						
Clatsop	0	0	0								
Columbia	0	2	2		1		1				
Coos	0	0	0								
Crook	3	2	5			2		1	2		
Curry	0	0	0								
Deschutes	0	1	1				1				
Douglas	3	3	6				1	2	1	1	1
Gilliam	0	0	0								
Grant	3	1	4					3	1		
Harney	1	1	2					1	1		
Hood River	1	0	1	1							
Jackson	1	0	1							1	
Jefferson	1	2	3			1			2		
Josephine	0	0	0								
Klamath	1	1	2					1	1		
Lake	6	2	8	1			2	5			
Lane	0	0	0								
Lincoln	0	0	0								
Linn	2	1	3	2	1						
Malheur	0	0	0								
Marion	1	3	4	1	3						
Morrow	0	0	0								
Multnomah	0	0	0								
Polk	1	1	2		1	1					
Sherman	0	1	1						1		
Tillamook	1	2	3		1	1	1				
Umatilla	0	1	1						1		
Union	1	2	3		2			1			
Wallowa	8	0	8					8			
Wasco	3	0	3	1				2			
Washington	3	0	3	2		1					
Wheeler	2	0	2			1		1			
Yamhill	4	6	10	4	6						
Grand Total	47	35	82	13	18	7	6	25	10	2	1

Table 3, Primary farm dwelling approvals on Farmland, parcel size and county, 2018-2019

County	Total			0 to 10 Acres		11 to 20 Acres		21 to 40 Acres		41 to 79 Acres		80 to 160 Acres		> 160 Acres		Acreage Not Reported	
	2018	2019	Grand Total	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
Baker	0	0	0														
Benton	0	2	2		1		1										
Clackamas	1	1	2				1			1							
Clatsop	0	0	0														
Columbia	0	2	2		1				1								
Coos	0	0	0														
Crook	3	2	5									1		1	2	1	
Curry	0	0	0														
Deschutes	0	1	1										1				
Douglas	3	3	6							1			2	2	1		
Gilliam	0	0	0														
Grant	3	1	4											3	1		
Harney	1	1	2											1	1		
Hood River	1	0	1	1													
Jackson	1	0	1					1									
Jefferson	1	2	3										1	1	1		
Josephine	0	0	0														
Klamath	1	1	2											1	1		
Lake	6	2	8	1										4	2	1	
Lane	0	0	0														
Lincoln	0	0	0														
Linn	2	1	3			1						1	1				
Malheur	0	0	0														
Marion	1	3	4		1				1	1					1		
Morrow	0	0	0														
Multnomah	0	0	0														
Polk	1	1	2							1	1						
Sherman	0	1	1												1		
Tillamook	1	2	3						1	1	1						
Umatilla	0	1	1												1		
Union	1	2	3											1	2		
Wallowa	8	0	8	3								2		2		1	
Wasco	3	0	3											3			
Washington	3	0	3	1		1						1					
Wheeler	2	0	2											2			
Yamhill	4	6	10	1	2				1		1	1		2	1		1
Grand Total	47	35	82	7	5	2	2	1	4	5	3	6	5	23	15	3	1

Table 4, Nonfarm dwelling approvals on Farmland, parcel size and county, 2018-2019

County	Total			0 to 5 Acres		6 to 10 Acres		11 to 20 Acres		21 to 40 Acres		41 to 80 Acres		> 80 Acres	
	2018	2019	Grand Total	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
Baker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clackamas	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0
Clatsop	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0
Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crook	9	1	10	0	0	2	0	2	0	2	0	3	1	0	0
Curry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschutes	23	21	44	6	9	3	1	8	7	5	0	1	1	0	3
Douglas	9	5	14	5	3	3	0	0	2	1	0	0	0	0	0
Gilliam	1	1	2	0	0	0	1	0	0	0	0	1	0	0	0
Grant	1	4	5	1	0	0	1	0	3	0	0	0	0	0	0
Harney	0	4	4	0	0	0	1	0	1	0	2	0	0	0	0
Hood River	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Jackson	5	6	11	4	3	0	1	0	0	0	1	1	1	0	0
Jefferson	0	2	2	0	0	0	0	0	0	0	1	0	0	0	1
Josephine	1	1	2	0	0	1	1	0	0	0	0	0	0	0	0
Klamath	1	1	2	0	0	0	0	1	0	0	1	0	0	0	0
Lake	24	15	39	10	6	3	2	7	5	3	2	0	0	1	0
Lane	1	4	5	0	3	0	1	0	0	1	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linn	5	3	8	3	0	2	1	0	0	0	1	0	0	0	1
Malheur	10	4	14	2	3	3	1	0	0	0	0	1	0	4	0
Marion	3	2	5	2	2	0	0	0	0	1	0	0	0	0	0
Morrow	4	5	9	1	1	3	2	0	1	0	0	0	1	0	0
Multnomah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sherman	3	2	5	1	0	1	0	1	0	0	2	0	0	0	0
Tillamook	2	2	4	0	0	2	0	0	0	0	1	0	1	0	0
Umatilla	2	2	4	1	0	0	1	0	1	0	0	0	0	1	0
Union	3	2	5	2	0	0	0	0	0	0	1	1	1	0	0
Wallowa	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
Wasco	4	0	4	0	0	0	0	3	0	0	0	1	0	0	0
Washington	2	0	2	0	0	1	0	0	0	1	0	0	0	0	0
Wheeler	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0
Yamhill	1	1	2	1	0	0	0	0	1	0	0	0	0	0	0
Grand Total	115	92	207	40	30	24	14	22	22	14	14	9	6	6	6

### Table 5, Nonresidential use approvals on Farmland, 2018-2019

[illegible]

Table 6, New parcel approvals on Farmland, parcel size and county, 2018-2019

County	Total		0 to 10 Acres		11 to 20 Acres		21 to 40 Acres		41 to 80 Acres		81 to 160 Acres		> 160 Acres		Division in conjunction with a Nonfarm Dwelling		Division in conjunction with a conditional use	
	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
Baker	1	4	1	1	0	0	0	0	0	1	0	1	0	1				3
Benton	0	0																
Clackamas	0	3		0		0		1		1		1		0				
Clatsop	0	6		6		0		0		0		0		0				
Columbia	0	0																
Coos	0	0																
Crook	4	5	2	0	1	0	0	2	1	0	0	0	0	3	4	1		
Curry	0	0																
Deschutes	2	7	2	7	0	0	0	0	0	0	0	0	0	0	2	5		2
Douglas	9	10	6	1	0	0	0	0	0	0	2	5	1	4	6	1		
Gilliam	4	0	1		0		0		0		0		3					
Grant	2	1	1	0	0	0	0	0	0	0	0	0	1	1	1			
Harney	0	0																
Hood River	0	0																
Jackson	1	2	0	0	0	0	0	0	0	0	1	0	0	2				
Jefferson	1	0	0		0		0		0		0		1					
Josephine	3	0	2		1		0		0		0		0					
Klamath	7	0	2		1		0		0		1		3					
Lake	16	5	4	2	2	1	2	0	1	0	1	1	6	1	3		1	
Lane	1	6	0	4	0	1	1	0	0	0	0	1	0	0		2		1
Lincoln	0	0																
Linn	3	5	0	4	2	0	0	0	0	0	1	1	0	0		1	1	3
Malheur	1	0	1		0		0		0		0		0		1			
Marion	1	1	1	1	0	0	0	0	0	0	0	0	0	0			1	1
Morrow	11	5	7	1	1	0	0	0	2	1	0	1	1	2	4	2	1	
Multnomah	0	0																
Polk	0	2		1		0		0		0		1		0				1
Sherman	2	1	2	0	0	0	0	1	0	0	0	0	0	0	2	1		
Tillamook	0	0																
Umatilla	12	9	2	5	0	2	0	0	0	0	3	2	7	0	2	3		
Union	3	3	2	1	0	0	0	0	0	0	0	0	1	2	2			
Wallowa	0	0																
Wasco	2	2	0	0	2	0	0	0	0	0	0	1	0	1	2	1		
Washington	1	5	1	5	0	0	0	0	0	0	0	0	0	0		5		
Wheeler	2	1	0	0	0	0	0	1	0	0	0	0	2	0	1	1		
Yamhill	5	4	4	2	1	0	0	1	0	0	0	1	0	0				
Grand Total	94	87	41	41	11	4	3	6	4	3	9	16	26	17	30	23	4	11

Table 7, Dwelling approvals on Forestland by type and county, 2018–2019

County	Total			Health Hardship		Large Tract Dwelling		Lot of Record		Replacement dwelling		Template Test Dwelling	
	2018	2019	Grand Total	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
Baker	1	1	2						1	1			
Benton	6	1	7	2		1				1		2	1
Clackamas	21	20	41	6	2		2	1			1	14	15
Columbia	10	6	16						2			10	4
Coos	22	15	37							8	6	14	9
Crook	1	1	2				1			1			
Curry	2	1	3									2	1
Deschutes	4	8	12			1	2	1	2		3	2	1
Douglas	10	7	17	1	1	2		1		3	5	3	1
Grant	2	5	7			1	1	1	1		3		
Hood River	3	4	7							3	1		3
Jackson	18	25	43	1	3		5	2		1	1	14	16
Josephine	1	4	5			1	2						2
Klamath	7	6	13			4			1			3	5
Lane	25	58	83		2	1				8	14	16	42
Lincoln	1	0	1									1	
Linn	10	12	22	1	2					4	3	5	7
Marion	3	6	9							2	1	1	5
Morrow	0	1	1										1
Multnomah	1	7	8							1	4		3
Polk	18	12	30	1	1		1		1	9	3	8	6
Tillamook	1	0	1							1			
Umatilla	3	3	6			3	2						1
Union	1	5	6			1	1				4		
Wallowa	2	4	6			1		1	1		1		2
Wasco	1	0	1							1			
Washington	22	13	35		1		1	3		6	6	13	5
Wheeler	0	1	1				1						
Yamhill	14	15	29	4	7		1	1				9	7
Grand Total	210	241	451	16	19	16	20	11	9	50	56	117	137

Table 8, Template dwelling approvals on Forestland, parcel size and county, 2018–2019

County	Total			Not Reported		VC Class 1		VC Class 2		VC Class 3		0 to 5 Acres		6 to 10 Acres		11 to 20 Acres		21 to 40 Acres		41 to 79 Acres		> 80 Acres	
	2018	2019	Grand Total	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
Baker	0	0	0																				
Benton	2	1	3							2	1	0	0	1	0	1	0	0	0	0	1	0	0
Clackamas	14	15	29						2	14	13	7	2	1	2	3	5	0	4	3	1	0	1
Clatsop	0	0	0																				
Columbia	10	4	14							10	4	2	1	1	0	3	1	3	2	1	0	0	0
Coos	14	9	23	1						13	9	4	3	3	2	5	2	2	0	0	1	0	1
Crook	0	0	0																				
Curry	2	1	3			1		1			1	1	0	0	0	0	0	0	0	0	1	1	0
Deschutes	2	1	3					2	1			0	0	0	0	1	1	1	0	0	0	0	0
Douglas	3	1	4							3	1	0	0	2	0	0	1	0	0	0	0	1	0
Gilliam	0	0	0																				
Grant	0	0	0																				
Harney	0	0	0																				
Hood River	0	3	3								3		2		0		1		0		0		0
Jackson	14	16	30			1	1	1	2	12	13	5	2	2	5	3	3	2	4	1	0	1	2
Jefferson	0	0	0																				
Josephine	0	2	2								2		0		0		0		1		0		1
Klamath	3	5	8			1		2			5	0	1	0	0	0	1	3	0	0	0	0	3
Lake	0	0	0																				
Lane	16	42	58			10	12			6	30	2	10	1	16	8	9	4	7	0	0	1	0
Lincoln	1	0	1							1		1		0		0		0		0		0	
Linn	5	7	12			1				4	7	2	2	0	2	2	0	0	2	1	1	0	0
Malheur	0	0	0																				
Marion	1	5	6						3	1	2	0	4	0	1	0	0	0	0	1	0	0	0
Morrow	0	1	1						1				1		0		0		0		0		0
Multnomah	0	3	3								3		2		0		1		0		0		0
Polk	8	6	14						4	8	2	2	0	2	2	3	3	0	0	1	1	0	0
Sherman	0	0	0																				
Tillamook	0	0	0																				
Umatilla	0	1	1				1						0		0		0		0		1		0
Union	0	0	0																				
Wallowa	0	2	2				2						0		1		0		1		0		0
Wasco	0	0	0																				
Washington	13	5	18				3			13	2	5	1	2	1	0	0	3	3	2	0	1	0
Wheeler	0	0	0																				
Yamhill	9	7	16			1	1		2	8	4	1	4	5	0	2	1	1	1	0	0	0	1
Grand Total	117	137	254	1	0	15	20	6	15	95	102	32	35	20	32	31	29	19	25	10	7	5	9

Table 9, Nonresidential use approvals on Forestland, 2018-2019

	TOTAL	Baker	Benton	Clackamas	Clatsop	Columbia	Coos	Crook	Curry	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wallowa	Wasco	Washington	Wheeler	Yamhill
Accessory use	43						4			4			1			15					3						3						3		10		
Agricultural building	26						4									17																			5		
Home occupation	20								2						3	5		1			1							2				1	2		1		2
Other	20						3		2	1	2				1	5															1	1	1	1			2
Communication facilities	14						3									1		1			6						1			1			1				
Private park/campground	5	2		1	1																1																
Commercial power generating facility	4			2																							2										
Road improvements, conditional	4		1								1					1					1																
Mining/processing of aggregate	3				1						1																										1
Winery	3																																				3
Public park	2																				1	1															
Reservoirs/water impoundment	2																										2										
Utility facility	2																														2						
Cemetery	1															1																					
Church/cemetery with church	1			1																																	
Cider business	1																										1										
Commercial activities with farm use	1																										1										
Commercial dog boarding kennel	1																																				1
Exploration for minerals/aggregate	1						1																														
Exploration/production of geothermal/gas/oil	1																				1																
Fire station	1																																			1	
Forest management research	1															1																					
Logging equipment repair/storage	1																						1														
Outdoor other gathering	1															1																					
Private hunting/fishing without lodging	1			1																																	
Processing	1							1																													
Road improvements, outright	1																										1										
Solar power generating facility	1			1																																	
Transmission lines with ROW of up to 100 feet	1																													1							
Uses to conserve soil/air/water quality	1																									1											
Water intake facilities/canals for irrigation	1																									1											
Youth Camp	1																															1					

Table 10, New parcel approvals on Forestland, parcel size and county, 2018-2019

County	Total New Parcels			0 to 10 Acres		11 to 20 Acres		21 to 40 Acres		41 to 79 Acres		80 to 160 Acres		> 160 Acres		Division associated with Dwelling		Division associated with Conditional Use	
	2018	2019	Grand Total	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
Baker	0	0	0																
Benton	0	1	1		1		0		0		0		0		0				
Clackamas	4	3	7	3	2	0	1	0	0	0	0	1	0	0	0				
Clatsop	3	0	3	0		1		0		0		2		0					
Columbia	0	2	2		0		0		1		0		1		0				
Coos	5	1	6	5	1	0	0	0	0	0	0	0	0	0	0				
Crook	0	3	3		2		0		0		1		0		0				
Curry	0	0	0																
Deschutes	2	0	2	0		0		0		0		0		2					
Douglas	0	6	6		4		0		0		0		0		2				
Gilliam	0	0	0																
Grant	0	1	1		0		0		0		0		0		1				
Harney	0	0	0																
Hood River	0	0	0																
Jackson	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0				
Jefferson	0	0	0																
Josephine	0	0	0																
Klamath	8	0	8	2		0		0		2		0		4		8			
Lake	0	0	0																
Lane	1	4	5	0	4	1	0	0	0	0	0	0	0	0	0				
Lincoln	0	0	0																
Linn	0	2	2		1		0		1		0		0		0				1
Malheur	0	0	0																
Marion	0	0	0																
Morrow	0	0	0																
Multnomah	0	0	0																
Polk	0	1	1		1		0		0		0		0		0				
Sherman	0	0	0																
Tillamook	1	0	1	0		0		0		1		0		0					
Umatilla	0	0	0																
Union	0	0	0																
Wallowa	0	0	0																
Wasco	0	0	0																
Washington	2	1	3	2	1	0	0	0	0	0	0	0	0	0	0				1
Wheeler	0	0	0																
Yamhill	0	4	4		4		0		0		0		0		0				
Grand Total	27	30	57	13	22	2	1	0	2	3	1	3	1	6	3	8	0	0	2

Table 11, Dwelling approvals on Farmland, by county, 1994-2019

County	Total EFU Dwelling Approvals 1994-2019	% Approved by County	Primary Farm	Accessory Farm	Relative Farm	Non Farm	Lot Of Record	Temp Hardship	Replacement
Baker	428	2.36%	51	5	31	45	107	26	163
Benton	188	1.04%	14	3	22	15	21	49	64
Clackamas	489	2.70%	71	13	59	33	72	236	5
Clatsop	75	0.41%	4	0	5	22	7	2	35
Columbia	52	0.29%	12	4	0	7	9	6	14
Coos	198	1.09%	10	5	33	6	25	23	96
Crook	924	5.10%	138	17	14	475	50	29	201
Curry	25	0.14%	5	0	8	10	1	1	0
Deschutes	1,293	7.13%	47	7	21	865	75	111	167
Douglas	2,260	12.47%	126	2	224	492	134	151	1,131
Gilliam	48	0.26%	11	6	5	8	1	1	16
Grant	301	1.66%	30	7	20	65	43	2	134
Harney	404	2.23%	112	9	15	180	36	9	43
Hood River	417	2.30%	22	83	10	35	29	28	210
Jackson	793	4.37%	57	4	56	283	256	123	14
Jefferson	324	1.79%	71	8	10	29	30	32	144
Josephine	98	0.54%	7	6	5	63	9	6	2
Klamath	577	3.18%	102	3	38	227	25	13	169
Lake	711	3.92%	91	19	25	511	3	6	56
Lane	674	3.72%	47	2	80	60	6	112	367
Lincoln	60	0.33%	3	0	0	28	21	5	3
Linn	696	3.84%	36	9	42	68	57	296	188
Malheur	839	4.63%	89	9	26	203	36	38	438
Marion	1,138	6.28%	78	26	18	89	37	269	621
Morrow	249	1.37%	29	15	19	62	23	5	96
Multnomah	72	0.40%	6	1	11	6	4	3	41
Polk	811	4.47%	65	6	43	21	93	125	458
Sherman	62	0.34%	10	1	4	33	3	0	11
Tillamook	215	1.19%	8	7	17	29	1	12	141
Umatilla	831	4.58%	64	13	33	118	56	56	491
Union	396	2.18%	60	6	17	63	53	18	179
Wallowa	232	1.28%	44	2	12	34	61	3	76
Wasco	462	2.55%	68	205	15	81	15	16	62
Washington	883	4.87%	86	4	27	64	19	143	540
Wheeler	126	0.70%	17	6	2	67	6	1	27
Yamhill	777	4.29%	75	10	69	40	121	190	272
Grand Total	18,128		1,766	523	1,036	4,437	1,545	2,146	6,675

**Table 12, Dwelling approvals on Farmland, by year, 1994-2019**

<b>Year</b>	<b>Total</b>	<b>Primary Farm</b>	<b>Accessory Farm</b>	<b>Relative Farm</b>	<b>Non Farm</b>	<b>Lot Of Record</b>	<b>Temp Hardship</b>	<b>Replacement</b>
1994	809	77	0	48	226	105	127	226
1995	899	103	1	48	259	111	145	232
1996	958	75	0	56	264	132	116	315
1997	1,028	89	0	80	265	125	127	342
1998	805	69	0	60	183	103	102	288
1999	751	74	0	51	164	85	81	296
2000	1,065	96	0	59	279	106	146	379
2001	825	88	0	38	216	76	111	296
2002	929	76	0	48	283	87	102	333
2003	835	95	0	34	261	54	83	308
2004	762	87	0	53	193	64	71	294
2005	715	83	0	45	227	46	84	230
2006	765	102	0	33	239	54	82	255
2007	789	94	0	59	271	63	69	233
2008	586	67	4	37	123	53	52	250
2009	521	54	15	20	111	34	60	227
2010	465	34	26	25	84	20	58	218
2011	393	50	21	18	56	15	51	182
2012	456	38	57	22	71	21	59	188
2013	459	47	45	24	69	24	31	219
2014	486	45	31	36	70	28	54	222
2015	530	51	27	30	90	21	57	254
2016	725	41	189	23	117	39	64	252
2017	578	49	43	30	109	28	85	234
2018	530	47	30	31	115	29	65	213
2019	464	35	34	28	92	22	64	189
<b>Grand Total</b>	<b>18,128</b>	<b>1,766</b>	<b>523</b>	<b>1,036</b>	<b>4,437</b>	<b>1,545</b>	<b>2,146</b>	<b>6,675</b>
<b>5-Year Average</b>	<b>565</b>	<b>45</b>	<b>65</b>	<b>28</b>	<b>105</b>	<b>28</b>	<b>67</b>	<b>228</b>
<b>10-Year Average</b>	<b>509</b>	<b>44</b>	<b>50</b>	<b>27</b>	<b>87</b>	<b>25</b>	<b>59</b>	<b>217</b>
<b>20-Year Average</b>	<b>644</b>	<b>64</b>	<b>26</b>	<b>35</b>	<b>154</b>	<b>44</b>	<b>72</b>	<b>249</b>

Table 13, Dwellings approvals on Forestland, by county, 1994-2019

County	Total Forest Dwelling Approvals 1994-2019	% Approved by County	Template Test	Large Tract	Lot of Record	Replacement	Health Hardship
Baker	46	0.49%	2	8	18	18	0
Benton	102	1.10%	40	9	19	24	10
Clackamas	983	10.56%	670	20	131	1	161
Clatsop	112	1.20%	54	2	20	32	4
Columbia	648	6.96%	520	2	16	56	54
Coos	581	6.24%	370	9	22	167	13
Crook	20	0.21%	0	12	1	6	1
Curry	191	2.05%	121	45	17	7	1
Deschutes	118	1.27%	76	13	11	14	4
Douglas	727	7.81%	109	41	55	501	21
Gilliam	0	0.00%	0	0	0	0	0
Grant	121	1.30%	40	20	23	38	0
Harney	6	0.06%	0	0	5	1	0
Hood River	88	0.95%	45	9	13	21	0
Jackson	923	9.92%	544	103	175	30	71
Jefferson	2	0.02%	0	1	0	1	0
Josephine	320	3.44%	283	17	12	5	3
Klamath	295	3.17%	128	17	51	90	9
Lake	2	0.02%	1	0	0	1	0
Lane	1,378	14.80%	890	16	21	404	47
Lincoln	234	2.51%	177	7	34	11	5
Linn	341	3.66%	186	4	32	44	75
Malheur	0	0.00%	0	0	0	0	0
Marion	161	1.73%	96	0	12	46	7
Morrow	53	0.57%	33	6	2	12	0
Multnomah	133	1.43%	49	1	6	74	3
Polk	522	5.61%	254	21	27	179	41
Sherman	0	0.00%	0	0	0	0	0
Tillamook	72	0.77%	47	2	4	15	4
Umatilla	36	0.39%	3	13	6	13	1
Union	144	1.55%	19	26	38	56	5
Wallowa	105	1.13%	40	19	20	22	4
Wasco	14	0.15%	1	2	4	5	2
Washington	457	4.91%	202	5	43	189	18
Wheeler	8	0.09%	1	2	0	3	2
Yamhill	365	3.92%	252	16	26	42	29
Grand Total	9,308		5,253	468	864	2,128	595

**Table 14, Dwellings approvals on Forestland, by year, 1994-2019**

<b>Year</b>	<b>Total</b>	<b>Large Tract</b>	<b>Replacement</b>	<b>Template Test</b>	<b>Lot of Record</b>	<b>Health Hardship</b>
1994	420	11	93	281	35	0
1995	563	12	114	334	103	0
1996	503	31	104	304	61	3
1997	475	14	112	265	59	25
1998	447	13	114	231	61	28
1999	400	17	64	225	42	52
2000	591	25	101	371	55	39
2001	438	22	101	224	49	42
2002	402	15	92	221	33	41
2003	430	28	100	235	43	24
2004	467	30	96	271	52	18
2005	434	15	104	243	42	30
2006	456	15	130	257	34	20
2007	427	24	90	227	48	38
2008	345	16	87	194	27	21
2009	271	31	64	133	11	32
2010	248	20	58	141	16	13
2011	216	22	78	90	10	16
2012	189	18	48	95	6	22
2013	203	11	66	105	6	15
2014	214	10	59	126	10	9
2015	233	8	50	152	9	14
2016	225	9	47	128	22	19
2017	260	15	50	146	10	39
2018	210	16	50	117	11	16
2019	241	20	56	137	9	19
<b>Grand Total</b>	<b>9,308</b>	<b>468</b>	<b>2,128</b>	<b>5,253</b>	<b>864</b>	<b>595</b>
<b>5-Year Avg</b>	<b>234</b>	<b>14</b>	<b>51</b>	<b>136</b>	<b>12</b>	<b>21</b>
<b>10-Year Avg</b>	<b>224</b>	<b>15</b>	<b>56</b>	<b>124</b>	<b>11</b>	<b>18</b>
<b>20-Year Avg</b>	<b>325</b>	<b>19</b>	<b>76</b>	<b>181</b>	<b>25</b>	<b>24</b>

**Table 15, Total approvals pursuant to M49, by county, 2010-2019**

<b>County</b>	<b>Claims</b>	<b>Claims Authorized</b>	<b>Authorized New Dwellings</b>	<b>Authorized New Parcels</b>
<b>Total</b>	4,960	3,542	6,417	4,096
<b>Baker</b>	97	66	116	58
<b>Benton</b>	80	57	93	53
<b>Clackamas</b>	863	673	1,204	855
<b>Clatsop</b>	52	29	46	31
<b>Columbia</b>	79	50	92	64
<b>Coos</b>	135	96	182	104
<b>Crook</b>	33	21	44	27
<b>Curry</b>	75	48	102	50
<b>Deschutes</b>	116	83	133	97
<b>Douglas</b>	168	124	208	148
<b>Gilliam</b>	1	0	0	0
<b>Grant</b>	5	3	5	5
<b>Harney</b>	0	0	2	2
<b>Hood River</b>	160	117	180	121
<b>Jackson</b>	349	265	450	308
<b>Jefferson</b>	142	86	192	119
<b>Josephine</b>	124	82	142	106
<b>Klamath</b>	139	92	195	78
<b>Lake</b>	1	1	2	2
<b>Lane</b>	327	237	473	297
<b>Lincoln</b>	78	62	112	51
<b>Linn</b>	270	182	331	222
<b>Malheur</b>	19	11	33	21
<b>Marion</b>	322	211	361	223
<b>Morrow</b>	0	0	9	6
<b>Multnomah</b>	72	50	85	40
<b>Polk</b>	247	168	302	184
<b>Sherman</b>	0	0	0	0
<b>Tillamook</b>	67	40	78	46
<b>Umatilla</b>	34	25	72	45
<b>Union</b>	31	19	28	20
<b>Wallowa</b>	38	29	63	37
<b>Wasco</b>	31	26	45	21
<b>Washington</b>	485	360	607	390
<b>Wheeler</b>	2	0	29	15
<b>Yamhill</b>	318	229	401	250

**Table 15a, Total Measure 49 authorizations, by county, 2018-2019**

County	New Dwellings		New Parcels		Total New Dwelling Approvals	Total New Parcels
	2018	2019	2018	2019	2018-2019	2018-2019
<b>TOTAL</b>	<b>74</b>	<b>98</b>	<b>58</b>	<b>82</b>	<b>179</b>	<b>143</b>
Baker	4		4		4	4
Benton		2		0	2	0
Clackamas	18	28	16	29	46	45
Clatsop	0	1	2	2	1	4
Columbia	2		2		2	2
Coos		3		2	3	2
Deschutes	2	1	2	2	3	4
Douglas	2		2		2	2
Hood River	1	11	1	7	12	8
Jackson	2	1	2	0	5	2
Jefferson	2	5	2	4	7	6
Josephine	1		1		1	1
Lane	2	5	1	4	7	5
Lincoln		2		2	2	2
Linn	10	5	6	4	17	11
Marion	6		4		9	6
Multnomah	1		1		1	1
Polk	4	13	4	11	17	15
Union	1		0		1	0
Washington	11	18	3	12	29	15
Yamhill	5	3	5	3	8	8

**Table 16, Farm and Forest Land included in UGBs by Year, 1989 – 2019**

<b>Year</b>	<b>Number of UGB Expansion Approvals</b>	<b>Acres added to UGBs</b>	<b>Acres from EFU Zones</b>	<b>Acres from Forest Zones</b>
1989	25	1,445	259	100
1990	9	2,737	1,734	17
1991	21	1,480	177	70
1992	15	970	297	120
1993	22	2,277	1,390	448
1994	20	1,747	201	20
1995	15	624	219	143
1996	19	3,816	2,466	16
1997	12	668	508	40
1998	21	2,726	493	2
1999	10	927	587	72
2000	8	624	0	0
2001	4	140	11	0
2002	55	17,962	3,281	1,659
2003	10	385	124	85
2004	7	3,391	2,090	176
2005	10	739	70	8
2006	15	3,231	670	27
2007	19	292	105	65
2008	6	972	949	0
2009	7	782	686	4
2010	5	58	37	2
2011	6	2,738	1,662	699
2012	6	4,941	757	1,272
2013	7	894	559	0
2014	8	4,188	3,262	350
2015	7	1,028	79	1
2016	5	2,605	225	0
2017	10	1,845	1,192	135
2018	4	415	194	44
2019	7	2,497	1,294	0
<b>TOTAL</b>	<b>395</b>	<b>69,144</b>	<b>25,578</b>	<b>5,575</b>

**Table 17, Farmland zone changes not involving urban lands, 1989–2019**

	To Commercial*	To Industrial **	To Residential	Subtotal	To Forest or Natural Resource	To EFU from Other Zone	Net Zone Change
<b>1989-2000</b>	614	1,370	5,986	<b>7,970</b>	2,410	944,670	<b>934,290</b>
<b>2001</b>	11	31	283	<b>325</b>	67	148	<b>-244</b>
<b>2002</b>	18	69	147	<b>234</b>	202	10	<b>-426</b>
<b>2003</b>	21	2	283	<b>306</b>	90	77	<b>-319</b>
<b>2004</b>	25	1,681	220	<b>1,925</b>	269	52	<b>-2,142</b>
<b>2005</b>	479	772	414	<b>1,665</b>	988	21	<b>-2,632</b>
<b>2006</b>	31	539	1,468	<b>2,038</b>	311	777	<b>-1,572</b>
<b>2007</b>	2	342	1,704	<b>2,048</b>	1,115	2,020	<b>-1,143</b>
<b>2008</b>	79	10	1,011	<b>1,100</b>	73	0	<b>-1,173</b>
<b>2009</b>	6	375	396	<b>777</b>	459	53	<b>-1,183</b>
<b>2010</b>	30	439	402	<b>871</b>	546	41	<b>-1,376</b>
<b>2011</b>	0	288	270	<b>558</b>	199	0	<b>-757</b>
<b>2012</b>	57	1,075	42	<b>1,174</b>	517	0	<b>-1,691</b>
<b>2013</b>	0	0	380	<b>380</b>	1,316	0	<b>-1,696</b>
<b>2014</b>	22	55	2,987	<b>3,064</b>	6	916	<b>-2,154</b>
<b>2015</b>	640	569	10	<b>1,219</b>	204	8	<b>-1,415</b>
<b>2016</b>	103	167	206	<b>476</b>	0	93	<b>-383</b>
<b>2017</b>	8	157	184	<b>349</b>	432	54	<b>-727</b>
<b>2018</b>	106	505	674	<b>1,285</b>	498	263	<b>-1,521</b>
<b>2019</b>	0	248	728	<b>976</b>	166	0	<b>-1,142</b>
<b>TOTAL</b>	<b>2,252</b>	<b>8,694</b>	<b>17,795</b>	<b>28,741</b>	<b>9,868</b>	<b>949,203</b>	<b>910,594</b>

\*Public zones are counted as commercial; \*\* Mineral and aggregate zones are counted as industrial.

**Table 18, Forest and mixed farm-forest zone changes not involving urban lands, 1989–2019**

	To Commercial*	To Industrial **	To Residential	Subtotal	To EFU or Natural Resource	To Forest from Other Zone	Net Zone Change
<b>1989-2000</b>	16	275	3,692	<b>3,983</b>	8,517	36,854	<b>24,354</b>
<b>2001</b>	0	0	232	<b>232</b>	0	0	<b>-232</b>
<b>2002</b>	0	0	113	<b>113</b>	109	0	<b>-222</b>
<b>2003</b>	0	0	520	<b>520</b>	113	0	<b>-633</b>
<b>2004</b>	0	82	95	<b>177</b>	50	0	<b>-227</b>
<b>2005</b>	0	31	101	<b>132</b>	44	50	<b>-126</b>
<b>2006</b>	0	3	292	<b>295</b>	0	163	<b>-132</b>
<b>2007</b>	2	5	1,269	<b>1,276</b>	0	90	<b>-1,186</b>
<b>2008</b>	3	212	5	<b>220</b>	131	509	<b>158</b>
<b>2009</b>	0	56	2,451	<b>2,507</b>	0	27	<b>-2,480</b>
<b>2010</b>	215	185	489	<b>889</b>	10	378	<b>-521</b>
<b>2011</b>	2	0	53	<b>55</b>	162	0	<b>-217</b>
<b>2012</b>	0	5	74	<b>79</b>	0	80	<b>1</b>
<b>2013</b>	18	129	0	<b>147</b>	288	0	<b>-435</b>
<b>2014</b>	4	0	159	<b>163</b>	0	11	<b>-152</b>
<b>2015</b>	0	197	164	<b>361</b>	0	204	<b>-157</b>
<b>2016</b>	0	32	120	<b>152</b>	35	0	<b>-187</b>
<b>2017</b>	16	136	32	<b>184</b>	41	432	<b>207</b>
<b>2018</b>	0	151	107	<b>258</b>	263	120	<b>-401</b>
<b>2019</b>	0	165	0	<b>165</b>	0	83	<b>-82</b>
<b>TOTAL</b>	<b>276</b>	<b>1,664</b>	<b>9,968</b>	<b>11,908</b>	<b>9,763</b>	<b>39,001</b>	<b>17,330</b>

\*\* Mineral and aggregate zones are counted as industrial.

**Table 19, USDA NASS Acres in Farm Use by County 1997 – 2017****Table: USDA NASS 2017 Census of Agriculture: Oregon Land In Farms by County 1997-2017**

County	2017	2012	2007	2002	1997	2017 to 2012	2017 to 1997	Acreage
COLUMBIA	43,379	56,668	57,758	62,398	72,700	77%	60%	-29,321
GRANT	628,895	656,410	761,541	892,400	1,041,463	96%	60%	-412,568
CLATSOP	15,070	16,382	21,198	22,234	24,341	92%	62%	-9,271
JACKSON	170,298	214,079	244,055	252,185	254,607	80%	67%	-84,309
KLAMATH	482,999	650,416	675,127	702,951	713,255	74%	68%	-230,256
MULTNOMAH	25,435	29,983	28,506	34,329	36,503	85%	70%	-11,068
UNION	385,152	411,671	487,584	478,411	544,720	94%	71%	-159,568
WASHINGTON	104,715	135,733	127,984	130,683	140,884	77%	74%	-36,169
JOSEPHINE	27,866	28,256	37,706	32,370	37,170	99%	75%	-9,304
LINN	314,947	331,316	376,483	385,589	416,737	95%	76%	-101,790
CURRY	70,338	63,342	74,336	70,459	90,090	111%	78%	-19,752
BAKER	754,585	710,789	711,809	869,523	953,771	106%	79%	-199,186
WHEELER	556,967	649,086	757,780	738,207	694,696	86%	80%	-137,729
CLACKAMAS	157,426	162,667	182,743	215,210	195,602	97%	80%	-38,176
POLK	148,905	144,748	166,663	168,881	184,323	103%	81%	-35,418
LINCOLN	29,017	30,225	31,179	32,791	35,780	96%	81%	-6,763
GILLIAM	611,920	723,405	733,387	642,996	752,067	85%	81%	-140,147
YAMHILL	169,357	177,365	180,846	196,298	204,739	95%	83%	-35,382
COOS	138,171	157,496	145,675	144,077	166,082	88%	83%	-27,911
LANE	203,148	219,625	245,531	234,807	238,014	92%	85%	-34,866
WALLOWA	520,213	452,559	527,957	518,110	606,259	115%	86%	-86,046
MALHEUR	1,093,362	1,076,768	1,170,664	1,175,280	1,252,746	102%	87%	-159,384
CROOK	799,845	822,676	761,548	937,628	904,794	97%	88%	-104,949
MARION	288,671	286,194	307,647	341,051	325,048	101%	89%	-36,377
TILLAMOOK	32,936	36,551	37,780	39,526	36,551	90%	90%	-3,615
HOOD RIVER	28,451	25,817	26,952	29,064	30,834	110%	92%	-2,383
BENTON	127,626	123,975	114,558	130,203	137,465	103%	93%	-9,839
DOUGLAS	400,179	382,386	396,984	390,140	422,605	105%	95%	-22,426
UMATILLA	1,352,241	1,308,312	1,447,321	1,330,932	1,403,598	103%	96%	-51,357
MORROW	1,126,101	1,165,126	1,104,250	1,124,593	1,165,678	97%	97%	-39,577
JEFFERSON	792,920	817,051	708,974	701,440	793,525	97%	100%	-605
DESCHUTES	134,600	131,036	129,369	138,226	131,734	103%	102%	2,866
LAKE	755,639	657,055	692,778	747,888	737,531	115%	102%	18,108
SHERMAN	524,857	513,649	514,004	507,705	451,769	102%	116%	73,088
HARNEY	1,557,103	1,505,437	1,461,508	1,575,020	1,319,828	103%	118%	237,275
WASCO	1,388,988	1,427,324	949,462	1,086,817	1,140,704	97%	122%	248,284
						Percent Change	Percent Change	Change
STATE LEVEL	15,962,322	16,301,578	16,399,647	17,080,422	17,658,213	98%	90%	-1,695,891