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An Emerging Contradiction: Non-Farm Activity within Exclusive Farm Use Zones

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Oregon’s land use policy plan has been lauded nationally as one of the most successful conservation strategies for agricultural and forest lands.\textsuperscript{1} Urban growth boundaries (UGB), which limit urban development within the UGB area, are a key component of this statewide land use system to mitigate sprawl. In combination with UGBs, exclusive farm use (EFU) zones facilitate and protect farm production by restricting development that may potentially conflict with agricultural practices and offering tax incentives for farming. However, this restriction is not absolute, as a variety of non-farm-related uses and dwellings are legally allowed within EFU zones. The allowed non-farm activities are diverse, and delineating their impact on farm operations has been difficult due to the lack of data to measure these phenomena.

In this edition of the Atlas, we mapped the locations of non-farm permits collected and maintained by the Department of Land Conservation and Development (DLCD), from 1993 to 2015 in the northern Willamette Valley. We hope this work will contribute to a dialogue among various actors and researchers interested in the growth management of Oregon.

\textbf{BACKGROUND & SIGNIFICANCE}

While \textit{Oregon’s Statewide Planning Goal 3} explicitly states “agricultural lands shall be preserved and maintained for farm use,” it also allows counties to “authorize farm uses and nonfarm uses defined by commission rule that will not have significant adverse effects on accepted farm or forest practices.”\textsuperscript{2} It seems contradictory that non-farm activities are permitted to function within EFU zones, but there are a variety of reasons for their existence. Some non-farm operations, including processing plants, storage facilities, agritourist events, and other accessory uses, sustain the agglomerative properties of the local agriculture industry and serve as complementary, if not essential, elements to farming practices.\textsuperscript{3} Another reason is that some activities, such as solar farms and wind turbines, require open space and thus, contend with farming demand for EFU lands.\textsuperscript{4} Lastly, 

2. DLCD, “Goal 3: Agricultural Lands.”
it’s worth noting that not all land within EFU zones are conducive to farming because of soil quality or gradient. Ideally, non-farm uses and dwellings are relegated to non-productive farmlands as long as they don’t conflict with nearby farms. However since the creation of the first EFU zone in 1963, the number of allowed non-farm uses has increased from six to over fifty uses today. The gradual addition of uses over the decades has been a political process and a compromise with farmers and landowners, who want to increase the economic return of their land. Nonetheless, there is concern that the growing number of non-farm uses and dwellings may eventually undermine the critical mass of agricultural land, or the minimum inventory of land needed for farming to remain sustainable. Isolated operations may have little to no impact on farming practices individually, but concerns focus on the cumulative impacts of these activities.

Farm operations require open space to function because some farm activities (e.g. late and early work hours, farm machines on streets, animal noises and smells, and weed and pest management) may conflict with the day-to-day activities of neighboring, non-

5. DLCD.
6. DLCD.
farm businesses and residents. Conversely, in addition to converting farmland to other uses, nearby dwellings and non-farm operations can produce traffic, pollution, and complaints of their own that negatively impact the longevity and production of nearby farms.

While these processes have been discussed at length by researchers and farm advocates, we know relatively little about how they function on the ground. Questions surrounding the extent of these operations, their locations, and their overall impact on farming practices have not been thoroughly addressed. By analyzing the spatial distribution at a local scale, this work takes an important step towards deepening our understanding of the cumulative impacts of non-farm development. Using administrative data maintained by DLCD, we’ve geocoded permits for dwellings and uses from 1993 to 2015 in the northern Willamette Valley, Oregon’s agricultural heartland. An important note is that the permit data in their current form do not capture the entire history of non-farm development in the region, as illegal operations and structures are not recorded. By their nature, these permits can only inform us of approved development at specific points in time, not what is currently operational. Furthermore, we are not arguing that these phenomena produce a net negative or positive impact on farming practices, nor is it the intent of these maps to illustrate such. The purpose is to highlight the presence of these activities, identify broad areas where they have clustered, and generate questions for future research and practices.

USES

Permitted activities vary from county to county and are not codified in a standardized method, making it difficult to measure and track. Therefore, we recoded and geocoded 622 cases into four broad categories: accessory use, utility and communication facility, other use, and agri-tourism and events, as illustrated in Figure 2.

Accessory uses represent activities that complement or are necessary for farming production...
and made up roughly 16 percent, or 97 cases, of permitted uses. Utility and communication facilities include wind turbines, power plants, and cell towers, making up roughly 20 percent, or 126 cases, of permitted uses. We’ve isolated these activities from “other uses” because they are generally public amenities that require open space to operate, opposed to private commercial activities. Other uses was the broadest category including private parks, home businesses, personal airports, and many other activities not related to farming. A plurality of permits fell under other uses and made up roughly 39 percent, or 242 cases, of permitted uses. A large number of these cases clustered outside the city of Woodburn (Figure 4).

Finally, agri-tourism and events represent farm stands, viticulture operations, bed and breakfast establishments, and wedding venues. We chose to isolate agri-tourism because of its unclear relationship to farming. While agri-tourism may help individual operations, there is not a consensus on its impact on farming practices as a whole. On the one hand, agri-tourism, such as u-pick stations, farm stands, and wine tasting stations, produces supplementary income streams for farm operations. On the other hand, it can also create residential traffic and development that can negatively affect other farm operations that have not adopted these practices. By codifying these cases into a different category, we hope to highlight areas where these events are occurring. Agri-tourism made up 25 percent, or 157 cases, of permitted uses with a large majority concentrating in Yamhill County near Dundee (Figure 3).

**DWELLINGS**

In 1993, the Oregon legislature permitted non-farm dwellings to be built on less productive land within EFU zones. Permitted dwellings fall into seven categories, some defined more clearly than others:


- **Accessory farm dwellings**: Residences for farm workers not related to the operator.
- **Dwelling replacements**: Residences that replace dwellings that have been removed. It is not clear what type of residence is removed and what is being built.
- **Lot of record**: Residences that can be built under the condition that the land has been under the same ownership prior to 1985.
- **Non-farm dwellings**: Residences, unrelated to farming, which are approved on less agriculturally productive lands.
- **Primary dwelling**: Residences for farm operators.
- **Relative farm assistance**: Residences for the operators’ relatives who will work on the farm. However, there is no requirement that a relative occupy the residence or that the residence be used for farm-related purposes once built.
- **Temporary hardship**: Residences constructed concurrently with a primary dwelling for a family member enduring a medical hardship. The state does not track the removal of these temporary dwellings.

With the exception of accessory farm and primary farm dwellings, which make up 300 out of the 2,400 dwelling permits (13%), most of the dwellings are either unrelated to farming or are not explicitly farm related, with a large concentration located near the Yamhill and Washington County border (Figure 6). Our binary classification is deliberate, and highlights a broader issue that the official dwelling types in their current form don’t tell us enough about the nature of development within Oregon’s agricultural lands.

**SUMMARY & CONCLUSION**
With permit data as our main source to spatially track these phenomena, the information we’ve presented is only a glimpse of non-farm development that has occurred in the northern Willamette Valley. It is likely that the maps we have presented are the most conservative scenario of non-farm development, since they only include permitted uses within a certain time frame. One take-away from our research is that we need more tools and better data to track the extent and spatial distribution of non-farm uses and to evaluate their cumulative impacts. Better-detailed data with standardized classifications for non-farm development is necessary for better monitoring and evaluation. Site visits would also help us understand more about the varying impacts of different uses. We are hopeful that this work will contribute to a more informed dialogue about the cumulative impact of non-farm uses.

**Figure 7. Density of use permits by county.**

**Figure 8. Concentration of use permits.**

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**Previous Issue Correction:**

In the Atlas section of the Summer 2017 issue, the Figure 1 caption text incorrectly identifies "Pov" as "Personally-owned vehicle."

The correct meaning of "Pov" in Figure 1 is "Poverty."
Figure 9. Density of dwelling permits by county.

Dwelling permits per 1,000 acres
- 0 - 1.5
- 1.5 - 2.00
- 2.01 - 3.00
- > 3.0

Figure 10. Concentration of dwelling permits.

More Concentrated
Less Concentrated