

## **Highlights from the 2013 Oregon Immunization Program's Teen Immunization Rates**

### **Overview**

- This is the first year that the Oregon Immunization Program (OIP) has used the ALERT Immunization Information System (ALERT IIS) to forecast teen immunization rates. The ALERT IIS receives reports of almost all immunizations given to children in Oregon, and is used by over 95% of Oregon immunization providers.
- The CDC uses the National Immunization Survey (NIS) to produce state-level estimates of teen immunization rates. The NIS for Oregon is based on a phone survey of around 200 Oregon residents per year.
- The ALERT teen immunization rates are based on immunization records for over 200,000 Oregon teenagers, and are available both for the entire state and for individual counties.
- Registry populations such as for teens in ALERT reflect any child who has ever lived in the area, instead of the current population. This will distort rates for teens. The OIP teen immunization rate forecasts are a first in the U.S. to correct for this and produce more accurate rates.
- For 2013, OIP is reporting immunization rates for teens age 13 to 17, for the tdap vaccine (tetanus/diphtheria/pertussis), seasonal influenza vaccine, meningococcal vaccine, and HPV (human papillomavirus vaccine).

## **Summary by Vaccine**

### Tdap (Tetanus/diphtheria/pertussis booster)

- This vaccine is required at the 7<sup>th</sup> grade for Oregon school attendance though exemptions are allowed.
- Overall 90% of Oregon teenagers have received a Tdap.
- County level coverage for teenagers is high, ranging from 85% to 94%. However adequate protection against pertussis may require up to 95% immunization rates.

### HPV (Human papillomavirus vaccine)

- Nationally there is a concern that HPV immunization rates for girls are low and have stopped increasing. In Oregon 61% of teen girls have received at least one dose of HPV. However less than a third of girls age 13 to 17 have finished the recommended three dose HPV series.
- HPV immunization rates generally are higher in urban counties than in rural ones. The highest rate of HPV series completion (3 doses) for girls was in Multnomah County at 41%. The lowest rate of completion was 13% in Curry County.
- Starting in 2011 HPV was also recommended for teen boys. Overall 26% of Oregon teen boys have received at least one dose of HPV, although only 6% have finished the 3 dose series.
- Locally the highest rate of starting HPV for boys was in Multnomah County, at 38%. The lowest rate was in Lake County at 5%.

### Meningococcal Vaccine

- Following an outbreak of meningococcal disease in Central Oregon in 2012, Oregon teen immunization rates for meningococcal disease have increased. Overall 65% of Oregon teenagers have received a meningococcal vaccination.
- Rates locally range from a high in Crook County at 78% to a low of 18% in Harney County.

### Seasonal Influenza Vaccine

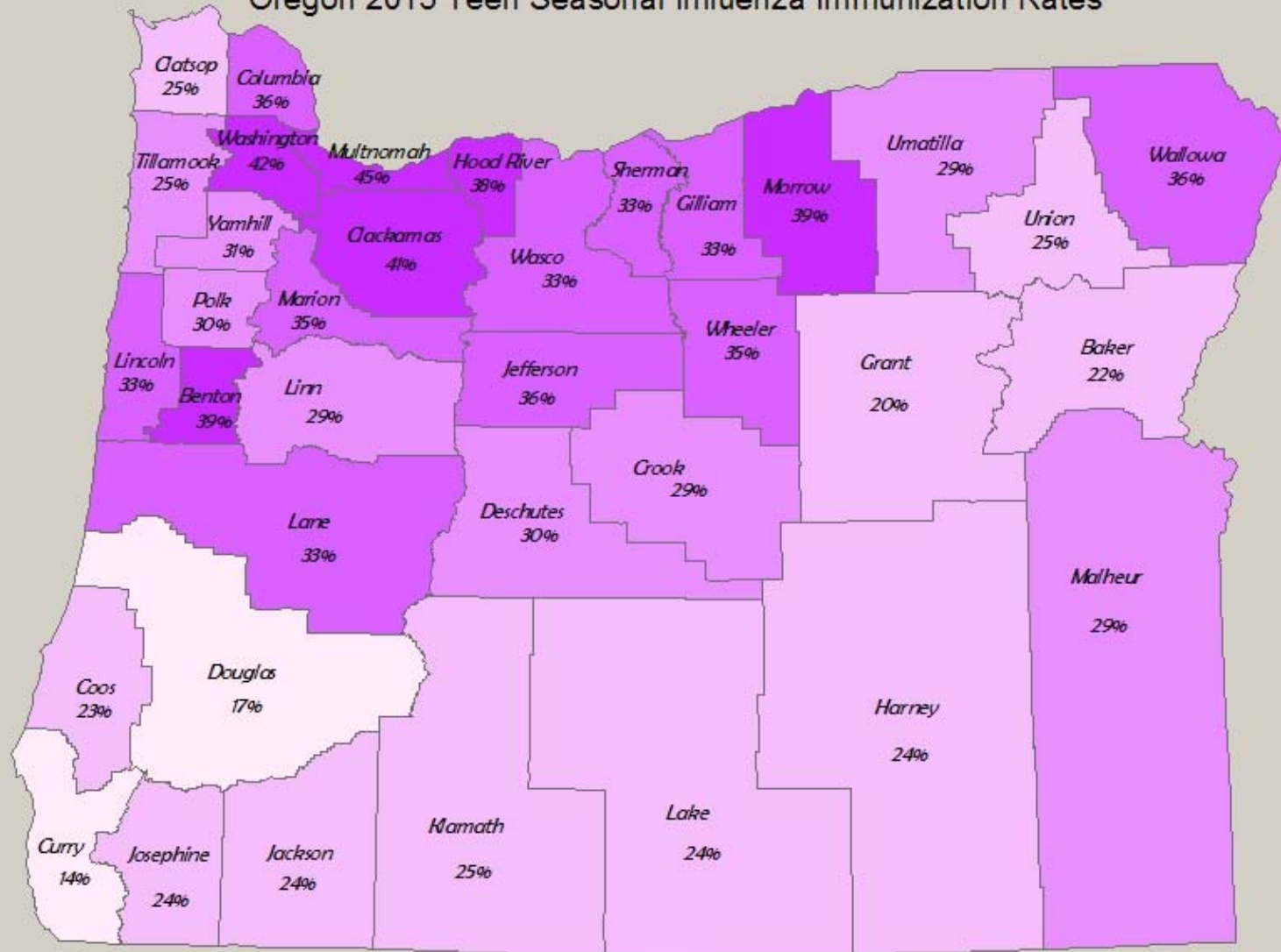
- Seasonal influenza vaccination is recommended on a yearly basis. For the 2012-2013 season 36% of Oregon teenagers received an influenza vaccination.
- Teens in urban counties received more influenza immunizations than those in rural counties. Rates for seasonal influenza immunization ranged from a high of 45% in Multnomah County to a low of 17% in Douglas County.

**2013 Oregon County Teen Immunization Rates for 13 to 17 Year Olds**

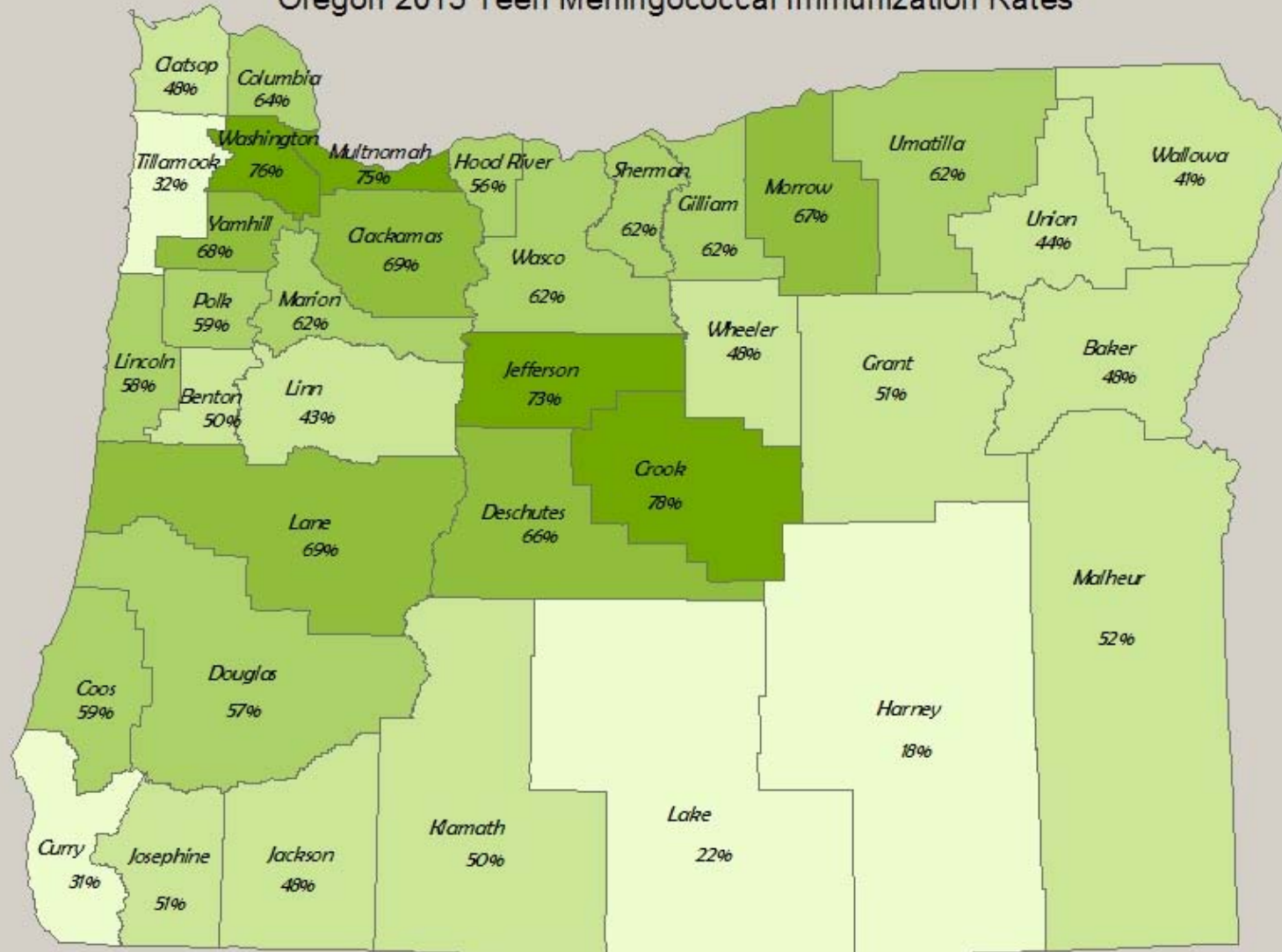
County	Tdap	Meningococcal	Influenza	Female		Male	
	Rate	Rate	Rate	1+ HPV	3+ HPV	1+ HPV	3+ HPV
BAKER	88%	48%	22%	53%	18%	11%	2%
BENTON	89%	51%	39%	56%	32%	21%	5%
CLACKAMAS	90%	69%	41%	62%	34%	29%	7%
CLATSOP	88%	48%	25%	53%	23%	13%	3%
COLUMBIA	91%	64%	36%	63%	33%	25%	5%
COOS	90%	59%	24%	61%	30%	26%	7%
CROOK	88%	78%	29%	52%	23%	13%	5%
CURRY	85%	31%	14%	40%	13%	8%	1%
DESCHUTES	90%	66%	30%	60%	31%	20%	5%
DOUGLAS	93%	57%	17%	52%	27%	12%	4%
GRANT	91%	51%	21%	56%	32%	16%	6%
HARNEY	89%	18%	24%	37%	20%	9%	2%
HOOD RIVER	90%	56%	38%	57%	30%	20%	5%
JACKSON	90%	48%	24%	49%	25%	17%	5%
JEFFERSON	88%	73%	36%	69%	36%	20%	5%
JOSEPHINE	91%	51%	24%	47%	23%	17%	6%
KLAMATH	84%	50%	25%	55%	25%	18%	6%
LAKE	88%	23%	24%	38%	21%	5%	3%
LANE	88%	69%	33%	61%	32%	23%	5%
LINCOLN	89%	58%	33%	56%	29%	16%	4%
LINN	88%	43%	29%	53%	25%	14%	3%
MALHEUR	90%	52%	29%	57%	31%	33%	11%
MARION	91%	63%	35%	62%	32%	22%	5%
MORROW	93%	67%	39%	68%	32%	34%	10%
MULTNOMAH	92%	75%	45%	71%	41%	38%	10%
POLK	91%	59%	30%	59%	30%	19%	4%
TILLAMOOK	89%	32%	27%	43%	17%	12%	2%
UMATILLA	88%	62%	29%	61%	31%	27%	8%
UNION	90%	44%	25%	46%	25%	15%	6%
WALLOWA	94%	41%	36%	49%	30%	23%	11%
WASCO-SHERMAN-GILLIAM	91%	62%	34%	61%	30%	20%	4%
WASHINGTON	89%	76%	42%	66%	36%	29%	7%
WHEELER	93%	48%	36%	66%	24%	32%	10%
YAMHILL	90%	68%	31%	56%	28%	24%	5%
<b>State</b>	<b>90%</b>	<b>65%</b>	<b>36%</b>	<b>61%</b>	<b>33%</b>	<b>26%</b>	<b>6%</b>

Source: Oregon ALERT Immunization Information System

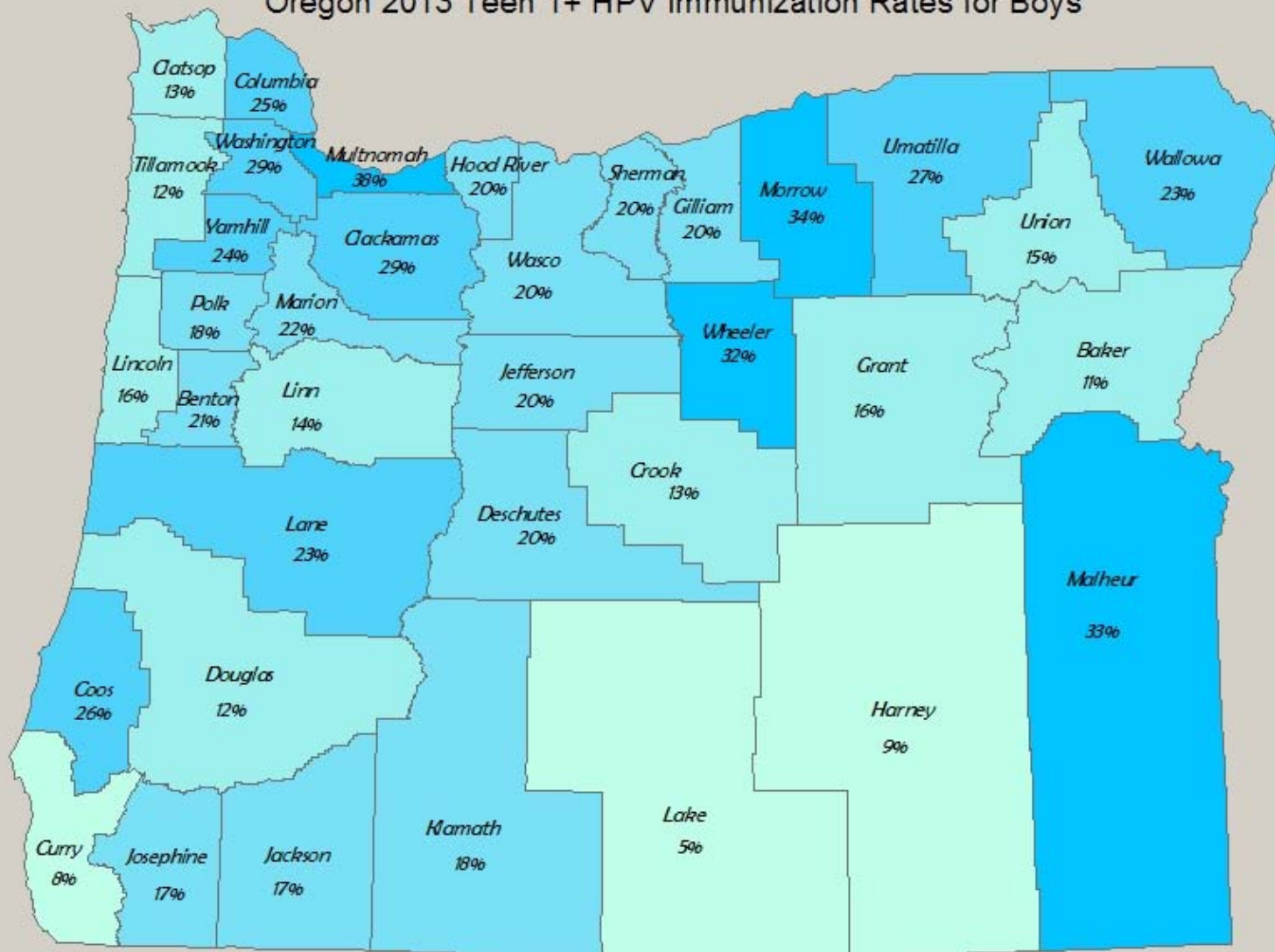
## Oregon 2013 Teen Seasonal Influenza Immunization Rates



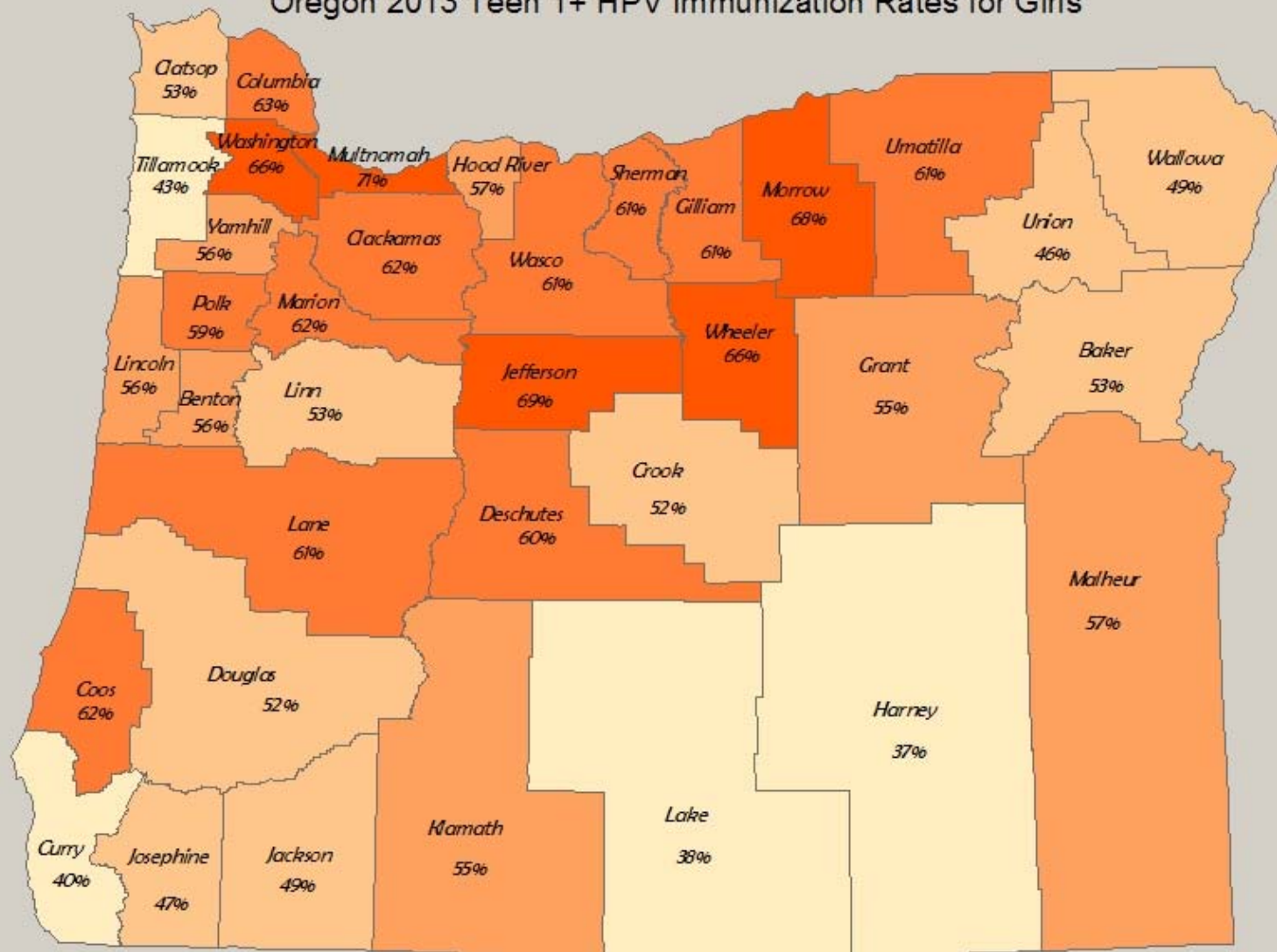
## Oregon 2013 Teen Meningococcal Immunization Rates



Oregon 2013 Teen 1+ HPV Immunization Rates for Boys



## Oregon 2013 Teen 1+ HPV Immunization Rates for Girls



## Oregon 2013 Teen Tdap Immunization Rates

