## **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**

# <u>Tdap (Tetanus/diphtheria/pertussis booster)</u>

- 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         Rate         Rate         1 + HPV         3 + MPV         2 + MPV         3 + M	2013 Oregon County Teen Imr				_			
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%           DOUGLAS         93%         57%         17%         52%         27%         12%         4%           GRANT         91%         51%         21%         56%         32%         16%         6%           HARNEY         89%         18%         24%         37%         20%         9% </td <td></td> <td>Tdap</td> <td>Meningococcal</td> <td>Influenza</td> <td colspan="2"><u>Female</u></td> <td colspan="2"><u>Male</u></td>		Tdap	Meningococcal	Influenza	<u>Female</u>		<u>Male</u>	
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	·							3+ HPV
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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%	LINN	88%	43%	29%	53%	25%	14%	3%
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%	MALHEUR	90%	52%	29%	57%	31%	33%	11%
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%	MARION	91%	63%	35%	62%	32%	22%	5%
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%	MORROW	93%	67%	39%	68%	32%	34%	10%
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%	MULTNOMAH	92%	75%	45%	71%	41%	38%	10%
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%	POLK	91%	59%	30%	59%	30%	19%	4%
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%	TILLAMOOK	89%	32%	27%	43%	17%	12%	2%
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%	UMATILLA	88%	62%	29%	61%	31%	27%	8%
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%	UNION	90%	44%	25%	46%	25%	15%	6%
WASHINGTON         89%         76%         42%         66%         36%         29%         7%           WHEELER         93%         48%         36%         66%         24%         32%         10%           YAMHILL         90%         68%         31%         56%         28%         24%         5%	WALLOWA	94%	41%	36%	49%	30%	23%	11%
WHEELER         93%         48%         36%         66%         24%         32%         10%           YAMHILL         90%         68%         31%         56%         28%         24%         5%	WASCO-SHERMAN-GILLIAM	91%	62%	34%	61%	30%	20%	4%
YAMHILL         90%         68%         31%         56%         28%         24%         5%	WASHINGTON	89%	76%	42%	66%	36%	29%	7%
	WHEELER	93%	48%	36%	66%	24%	32%	10%
State 250/ 250/ 250/ 250/ 50/	YAMHILL	90%	68%	31%	56%	28%	24%	5%
	State	90%	65%	36%	61%	33%	26%	6%

Source: Oregon ALERT Immunization Information System









