

TABLE 7-1. Infant deaths by age and county of residence, Oregon residents, death cohort, 2016

County of residence	Total infant deaths ¹	Infant death rate ²	Neonatal deaths ³ (Age <28 days)				Neonatal rate ²	Post-neonatal deaths ⁴	Post-neonatal rate ²
			Total neonatal	Under 1 day	1-6 days	7-27 days			
Total	211	4.6	148	87	31	30	3.3	63	1.4
Baker	3	18.8	2	—	—	2	12.5	1	6.3
Benton	3	3.9	1	1	—	—	1.3	2	2.6
Clackamas	17	4.0	13	8	2	3	3.1	4	0.9
Clatsop	2	4.9	2	—	—	2	4.9	—	—
Columbia	3	5.7	1	1	—	—	1.9	2	3.8
Coos	2	3.2	1	1	—	—	1.6	1	1.6
Crook	1	4.2	1	—	1	—	4.2	—	—
Curry	2	11.0	1	—	—	1	5.5	1	5.5
Deschutes	5	2.8	3	1	1	1	1.7	2	1.1
Douglas	3	2.8	3	1	1	1	2.8	—	—
Gilliam	—	—	—	—	—	—	—	—	—
Grant	1	17.9	—	—	—	—	—	1	17.9
Harney	—	—	—	—	—	—	—	—	—
Hood River	1	4.0	1	—	—	1	4.0	—	—
Jackson	12	5.2	8	2	4	2	3.5	4	1.7
Jefferson	1	3.5	1	1	—	—	3.5	—	—
Josephine	5	5.7	2	2	—	—	2.3	3	3.4
Klamath	4	4.9	3	1	—	2	3.7	1	1.2
Lake	1	14.3	—	—	—	—	—	1	14.3
Lane	15	4.2	11	4	4	3	3.1	4	1.1
Lincoln	2	4.6	2	—	2	—	4.6	—	—
Linn	9	5.9	7	5	1	1	4.6	2	1.3
Malheur	3	6.5	1	1	—	—	2.2	2	4.3
Marion	21	4.6	16	10	4	2	3.5	5	1.1
Morrow	1	6.1	1	—	1	—	6.1	—	—
Multnomah	41	4.5	27	16	5	6	3.0	14	1.6
Polk	8	8.2	8	7	—	1	8.2	—	—
Sherman	1	58.8	1	—	1	—	58.8	—	—
Tillamook	2	7.8	1	1	—	—	3.9	1	3.9
Umatilla	7	7.4	3	2	—	1	3.2	4	4.2
Union	4	12.8	3	2	1	—	9.6	1	3.2
Wallowa	—	—	—	—	—	—	—	—	—
Wasco	1	3.1	1	1	—	—	3.1	—	—
Washington	24	3.4	19	15	3	1	2.7	5	0.7
Wheeler	—	—	—	—	—	—	—	—	—
Yamhill	6	5.2	4	4	—	—	3.4	2	1.7
Unknown	—	*	—	—	—	—	*	—	*

— Quantity is zero.

¹ Infant deaths occur in the first year of life.

² Rates per 1,000 live births.

³ Neonatal deaths occur in the first 27 days of life.

⁴ Postneonatal deaths occur from day 28 through 364 after birth.

WARNING: Rates based on less than five events are unreliable. * Rates are not calculated for unknown county of residence.

TABLE 7-2. Infant deaths by cause and age, Oregon residents, death cohort, 2016

Selected causes of death (and their ICD-10 codes)	Total infant deaths ¹	Neonatal deaths ²				Post- neo- natal deaths ³
		Under 1 day	1-6 days	7-27 days	Total neo- natal	
Total	211	87	31	30	148	63
Rate ⁴	4.6	1.9	0.7	0.7	3.3	1.4
Infections & parasitic disease (A00-B99)	2	–	–	–	–	2
Gastroenteritis of infectious origin (A09)	1	–	–	–	–	1
Septicaemia (A40-A41)	1	–	–	–	–	1
Endocrine, nutritional, & metabolic disease (E00-E88)	4	–	1	–	1	3
Diseases of the circulatory system (I00-I99)	3	–	–	1	1	2
Diseases of the heart (I00-I09, I11, I13, I20-I51)	2	–	–	–	–	2
Diseases of the respiratory system (J00-J99)	5	–	–	–	–	5
Diseases of the genitourinary system (N00-N99)	1	–	–	–	–	1
Perinatal conditions (P00-P96)	100	63	20	15	98	2
Fetus & newborn affected by maternal factors (P00-P04)	27	26	1	–	27	–
Gestation & fetal growth (P05-P08)	29	26	2	1	29	–
Intrauterine hypoxia & asphyxia (P20-P21)	2	–	2	–	2	–
Respiratory distress (P22)	2	–	2	–	2	–
Other respiratory (P24-P28)	9	4	3	1	8	1
Bacterial sepsis of newborn (P36)	7	1	2	4	7	–
Haemorrhagic disorders of newborn (P50-P61)	8	2	4	1	7	1
Congenital anomalies (Q00-Q99)	55	24	10	11	45	10
Anencephaly (Q000)	2	2	–	–	2	–
Congenital hydrocephalus & spina bifida (Q03, Q05)	1	1	–	–	1	–
Malformation of the heart (Q20-Q24)	11	2	3	4	9	2
Down syndrome & other chromosomal (Q90-Q99)	5	1	2	2	5	–
Symptoms, signs not elsewhere classified (R00-R99)	24	–	–	2	2	22
Sudden infant death syndrome (R95)	21	–	–	2	2	19
Other ill-defined and unspecified causes (R99)	3	–	–	–	–	3
External causes of death (V01-Y89)	17	–	–	1	1	16
Accidents (V01-X59, Y85-Y86)	11	–	–	–	–	11
Nontransport accidents (W00-X59, Y86)	11	–	–	–	–	11
Accidental suffocation/strangulation in bed (W75)	9	–	–	–	–	9
Assault (homicide) (X85-Y09, Y87.1)	2	–	–	–	–	2
Events of undetermined intent (Y10-Y34, Y87.2, Y89.9) ...	2	–	–	–	–	2
Strangulation/suffocation, undeterm intent (Y20)	1	–	–	–	–	1
Complications of medical & surgical care (Y40, Y84, Y88)	2	–	–	1	1	1

– Quantity is zero.

¹ Infant deaths occur in the first year of life.

² Neonatal deaths occur in the first 27 days of life.

³ Postneonatal deaths occur from day 28 through 364 after birth.

⁴ Rates per 1,000 live births.

TABLE 7-3. Fetal deaths by age of mother and county of residence, Oregon, 2016

County of residence	Total	Age of mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total	184	–	12	30	52	48	33	8	1
Ratio to births ¹	4.0	–	6.0	3.6	3.9	3.6	4.8	5.4	*
Baker	2	–	–	–	1	1	–	–	–
Benton	2	–	–	–	1	–	1	–	–
Clackamas	13	–	–	3	1	5	3	1	–
Clatsop	2	–	–	–	2	–	–	–	–
Columbia	1	–	–	–	1	–	–	–	–
Coos	5	–	1	–	1	2	1	–	–
Crook	3	–	–	1	1	1	–	–	–
Curry	1	–	–	–	1	–	–	–	–
Deschutes	8	–	–	4	1	1	2	–	–
Douglas	6	–	2	–	–	1	3	–	–
Gilliam	–	–	–	–	–	–	–	–	–
Grant	1	–	–	–	–	–	–	1	–
Harney	–	–	–	–	–	–	–	–	–
Hood River	1	–	–	–	–	–	1	–	–
Jackson	8	–	2	2	1	1	1	1	–
Jefferson	2	–	–	1	–	1	–	–	–
Josephine	4	–	1	3	–	–	–	–	–
Klamath	3	–	–	1	–	2	–	–	–
Lake	–	–	–	–	–	–	–	–	–
Lane	15	–	2	3	5	4	1	–	–
Lincoln	–	–	–	–	–	–	–	–	–
Linn	6	–	1	1	3	–	1	–	–
Malheur	4	–	1	1	1	1	–	–	–
Marion	19	–	–	1	10	5	2	1	–
Morrow	1	–	–	1	–	–	–	–	–
Multnomah	33	–	1	3	9	10	9	1	–
Polk	3	–	–	–	2	1	–	–	–
Sherman	–	–	–	–	–	–	–	–	–
Tillamook	3	–	–	1	–	2	–	–	–
Umatilla	4	–	1	–	–	2	–	1	–
Union	–	–	–	–	–	–	–	–	–
Wallowa	–	–	–	–	–	–	–	–	–
Wasco	–	–	–	–	–	–	–	–	–
Washington	28	–	–	3	9	6	7	2	1
Wheeler	1	–	–	–	–	–	1	–	–
Yamhill	5	–	–	1	2	2	–	–	–

– Quantity is zero.

¹ All ratios per 1,000 live births.

* Ratios are not calculated for fewer than five events.

TABLE 7-4. Fetal deaths by weeks of gestation and cause of death, Oregon, 2016

Selected causes of death (and their ICD-10 codes)	Total	Weeks of gestation ¹								
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+
Total	184	4	46	28	20	33	10	27	11	5
Perinatal conditions (P00-P96)	161	4	34	24	20	30	10	26	9	4
Maternal conditions unrelated to present pregnancy (P00)	11	-	-	3	4	3	-	1	-	-
Maternal complications of pregnancy (P01)	13	-	7	1	1	2	1	1	-	-
Complications of placenta, cord and membranes (P02)	53	1	11	5	7	12	1	11	2	3
Other complications of labor and delivery (P03)	1	-	-	-	-	-	-	-	1	-
Noxious influences transmitted via placenta (P04)	2	-	1	1	-	-	-	-	-	-
Slow fetal growth and fetal malnutrition (P05)	2	-	-	-	-	1	-	-	1	-
Transitory endocrine and metabolic disorders specific to fetus (P70-P74)	4	-	-	-	1	-	1	2	-	-
Other perinatal conditions (P80-P96)	74	3	15	14	7	11	7	11	5	1
Fetal death of unspecified cause (P95)	72	3	13	14	7	11	7	11	5	1
Congenital malformations (Q00-Q99)	23	-	12	4	-	3	-	1	2	1
Of the nervous system (Q00-Q07)	5	-	1	2	-	-	-	1	1	-
Anencephaly and similar malformations (Q00)	3	-	1	-	-	-	-	1	1	-
Of the heart (Q20-Q24)	2	-	2	-	-	-	-	-	-	-
Of the urinary system (Q60-Q64)	3	-	2	-	-	1	-	-	-	-
Of musculoskeletal system, limbs, and integument (Q65-Q85)	2	-	1	-	-	1	-	-	-	-
Chromosomal abnormalities, NEC (Q90-Q99)	9	-	5	2	-	-	-	-	1	1
Edwards syndrome (Q91.0-Q91.3)	3	-	-	1	-	-	-	-	1	1
Patau syndrome (Q91.4-Q91.7)	2	-	2	-	-	-	-	-	-	-

- Quantity is zero.

¹ Based on clinical estimate of gestation.

TABLE 7-5. Fetal deaths by weeks of gestation and age of mother, Oregon, 2016

Age of mother	Total	Weeks of gestation ¹									
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total	184	4	46	28	20	33	10	27	11	5	–
<15	–	–	–	–	–	–	–	–	–	–	–
15-19	12	–	2	6	1	–	–	2	1	–	–
20-24	30	2	11	3	2	7	2	3	–	–	–
25-29	52	1	7	7	8	11	1	7	7	3	–
30-34	48	1	16	7	5	7	3	6	2	1	–
35-39	33	–	7	4	4	7	3	8	–	–	–
40-44	8	–	3	–	–	1	1	1	1	1	–
45+	1	–	–	1	–	–	–	–	–	–	–
N.S.	–	–	–	–	–	–	–	–	–	–	–

– Quantity is zero.

¹ Based on clinical estimate of gestation.**TABLE 7-6. Births by weeks of gestation and weight, Oregon residents, 2015**

Birthweight (in grams)	Total	Weeks of gestation ¹									
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total	45,656	17	44	145	318	1,594	1,343	25,404	11,234	5,526	31
349 and less	28	17	10	1	–	–	–	–	–	–	–
350-499	26	–	20	6	–	–	–	–	–	–	–
<500	54	17	30	7	–	–	–	–	–	–	–
500-749	63	–	14	45	4	–	–	–	–	–	–
750-999	91	–	–	61	30	–	–	–	–	–	–
1000-1249	105	–	–	28	64	11	–	2	–	–	–
1250-1499	152	–	–	3	88	57	1	3	–	–	–
1500-1999	577	–	–	–	118	348	51	55	2	2	1
2000-2499	1,889	–	–	–	11	706	338	788	36	8	2
<2500	2,931	17	44	144	315	1,122	390	848	38	10	3
2500-2999	6,885	–	–	–	2	347	605	4,893	800	232	6
3000-3499	17,167	–	–	–	–	100	285	10,755	4,301	1,713	13
3500-3999	13,903	–	–	–	1	17	51	6,908	4,548	2,374	4
4000-4499	4,033	–	–	–	–	5	10	1,690	1,347	980	1
4500+	727	–	–	–	–	3	2	309	197	216	–
Unknown	10	–	–	1	–	–	–	1	3	1	4

– Quantity is zero.

¹ Based on clinical estimate of gestation.

TABLE 7-7. Fetal deaths by weeks of gestation and weight, Oregon residents, 2015

Birthweight (in grams)	Total	Weeks of gestation ¹								
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+
Total	186	4	44	28	21	35	9	35	4	4
349 and less	—	—	—	—	—	—	—	—	—	—
350-499	34	—	31	1	1	1	—	—	—	—
<500	34	—	31	1	1	1	—	—	—	—
500-749	30	—	8	17	4	1	—	—	—	—
750-999	18	2	4	6	4	2	—	—	—	—
1000-1249	12	2	—	3	4	2	1	—	—	—
1250-1499	8	—	—	1	3	3	—	1	—	—
1500-1999	17	—	—	—	5	7	2	3	—	—
2000-2499	22	—	—	—	—	14	3	4	—	—
<2500	141	4	43	28	21	30	6	8	—	—
2500-2999	18	—	—	—	—	3	2	12	—	1
3000-3499	13	—	—	—	—	2	—	8	2	1
3500-3999	9	—	—	—	—	—	—	5	2	2
4000-4499	3	—	—	—	—	—	1	1	—	—
4500+	1	—	—	—	—	—	—	1	—	—
Unknown	1	—	1	—	—	—	—	—	—	—

— Quantity is zero.

¹ Based on clinical estimate of gestation.

**TABLE 7-8. Early neonatal deaths¹ by weeks of gestation and weight,
Oregon residents, birth cohort, 2015**

Birthweight (in grams)	Total	Weeks of gestation ²									
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total ³	128	17	43	25	13	10	1	11	4	2	2
001-349	28	17	10	1	–	–	–	–	–	–	–
350-499	23	–	20	3	–	–	–	–	–	–	–
<500	51	17	30	4	–	–	–	–	–	–	–
500-749	28	–	13	15	–	–	–	–	–	–	–
750-999	7	–	–	4	3	–	–	–	–	–	–
1000-1249	4	–	–	1	3	–	–	–	–	–	–
1250-1499	3	–	–	–	3	–	–	–	–	–	–
1500-1999	9	–	–	–	4	4	–	1	–	–	–
2000-2499	8	–	–	–	–	3	–	4	–	1	–
<2500	110	17	43	24	13	7	–	5	–	1	–
2500+	16	–	–	–	–	3	1	6	4	1	1
2500-2999	7	–	–	–	–	2	1	4	–	–	–
3000-3499	5	–	–	–	–	1	–	2	1	1	–
3500-3999	3	–	–	–	–	–	–	–	3	–	–
4000-4499	1	–	–	–	–	–	–	–	–	–	1
4500+	–	–	–	–	–	–	–	–	–	–	–

– Quantity is zero.

¹ Early neonatal deaths occur through day six after birth.

² Clinical estimate of gestation. If clinical estimate is unknown, gestation is calculated from reported date of last menses.

³ Total includes reports with unknown weight.

TABLE 7-9. Late neonatal deaths¹ by weeks of gestation and weight, Oregon residents, birth cohort, 2015

Birthweight (in grams)	Total	Weeks of gestation ²								
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+
Total ³	25	–	–	5	4	4	1	8	3	–
001-349	–	–	–	–	–	–	–	–	–	–
350-499	–	–	–	–	–	–	–	–	–	–
<500	–	–	–	–	–	–	–	–	–	–
500-749	3	–	–	2	1	–	–	–	–	–
750-999	2	–	–	2	–	–	–	–	–	–
1000-1249	2	–	–	1	1	–	–	–	–	–
1250-1499	3	–	–	–	2	1	–	–	–	–
1500-1999	–	–	–	–	–	–	–	–	–	–
2000-2499	2	–	–	–	–	1	1	–	–	–
<2500	12	–	–	5	4	2	1	–	–	–
2500+	13	–	–	–	–	2	–	8	3	–
2500-2999	7	–	–	–	–	2	–	5	–	–
3000-3499	4	–	–	–	–	–	–	3	1	–
3500-3999	2	–	–	–	–	–	–	–	2	–
4000-4499	–	–	–	–	–	–	–	–	–	–
4500+	–	–	–	–	–	–	–	–	–	–

– Quantity is zero.

¹ Late neonatal deaths occur from day seven through 27 after birth.

² Clinical estimate of gestation. If clinical estimate is unknown, gestation is calculated from reported date of last menses.

³ Total includes reports with unknown birthweight.

**TABLE 7-10. Postneonatal deaths¹ by weeks of gestation and weight,
Oregon residents, birth cohort, 2015**

Birthweight (in grams)	Total	Weeks of gestation ²								
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+
Total ³	69	–	–	6	2	10	4	35	11	1
001-349	–	–	–	–	–	–	–	–	–	–
350-499	1	–	–	1	–	–	–	–	–	–
<500	1	–	–	1	–	–	–	–	–	–
500-749	3	–	–	2	1	–	–	–	–	–
750-999	2	–	–	2	–	–	–	–	–	–
1000-1249	3	–	–	1	–	2	–	–	–	–
1250-1499	–	–	–	–	–	–	–	–	–	–
1500-1999	3	–	–	–	1	2	–	–	–	–
2000-2499	15	–	–	–	–	6	2	7	–	–
<2500	27	–	–	6	2	10	2	7	–	–
2500+	42	–	–	–	–	–	2	28	11	1
2500-2999	13	–	–	–	–	–	1	11	1	–
3000-3499	15	–	–	–	–	–	1	8	6	–
3500-3999	11	–	–	–	–	–	–	8	2	1
4000-4499	3	–	–	–	–	–	–	1	2	–
4500+	–	–	–	–	–	–	–	–	–	–

– Quantity is zero.

¹ Postneonatal deaths occur from day 28 through 364 after birth.

² Clinical estimate of gestation. If clinical estimate is unknown, gestation is calculated from reported date of last menses.

³ Total includes reports with unknown birthweight.

TABLE 7-11. Neonatal deaths by birthweight, Oregon residents, birth cohort, 2015

Birthweight (in grams)	Deaths	Rate ¹
Total ²	153	3.4
001-349	28	1000.0
350-499	23	884.6
<500	51	944.4
500-749	31	492.1
750-999	9	98.9
1000-1249	6	57.1
1250-1499	6	39.5
1500-1999	9	15.6
2000-2499	10	5.3
<2500	122	41.6
2500+	29	0.7
2500-2999	14	2.0
3000-3499	9	0.5
3500-3999	5	0.4
4000-4499	1	*
4500+	—	—

— Quantity is zero.

¹ Rate per 1,000 live births.

² Total includes reports with unknown birthweight.

* Rates are not calculated when there are fewer than five deaths in a category.

TABLE 7-12. Neonatal deaths by birthweight, Oregon residents, birth cohort, 2013-2015

Birthweight (in grams)	Deaths	Rate ¹
Total ²	471	3.5
001-349	67	1000.0
350-499	83	912.1
<500	150	949.4
500-749	123	532.5
750-999	38	138.7
1000-1249	12	39.0
1250-1499	11	27.4
1500-1999	18	11.0
2000-2499	23	4.1
<2500	375	43.5
2500+	90	0.7
2500-2999	31	1.5
3000-3499	31	0.6
3500-3999	20	0.5
4000-4499	7	0.6
4500+	1	*

¹ Rate per 1,000 live births.

² Total includes reports with unknown birthweight.

* Rates are not calculated when there are fewer than five deaths in a category.

**TABLE 7-13. Perinatal death rates by county of residence,
Oregon residents, birth cohort, 2015**

County of residence	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Rate	Ratio	No.	Rate	Ratio	No.	Rate
Total ⁴	238	5.2	5.2	335	7.3	7.3	153	3.4
Baker	2	*	*	2	*	*	—	—
Benton	6	8.1	8.1	7	9.4	9.5	1	*
Clackamas	21	5.0	5.0	27	6.4	6.4	15	3.6
Clatsop	3	*	*	4	*	*	1	*
Columbia	3	*	*	3	*	*	1	*
Coos	—	—	—	3	*	*	2	*
Crook	2	*	*	3	*	*	2	*
Curry	—	—	—	—	—	—	—	—
Deschutes	7	3.9	3.9	10	5.6	5.6	4	*
Douglas	11	9.9	10.0	14	12.6	12.7	6	5.4
Gilliam	—	—	—	—	—	—	—	—
Grant	—	—	—	—	—	—	—	—
Harney	1	*	*	1	*	*	1	*
Hood River	—	—	—	—	—	—	—	—
Jackson	15	6.2	6.2	19	7.9	7.9	8	3.3
Jefferson	1	*	*	3	*	*	2	*
Josephine	7	8.1	8.1	10	11.5	11.6	5	5.8
Klamath	2	*	*	4	*	*	—	—
Lake	—	—	—	—	—	—	—	—
Lane	15	4.2	4.2	23	6.4	6.4	14	3.9
Lincoln	3	*	*	4	*	*	1	*
Linn	4	*	*	9	5.9	6.0	3	*
Malheur	1	*	*	2	*	*	—	—
Marion	26	5.9	5.9	36	8.1	8.2	17	3.9
Morrow	—	—	—	—	—	—	—	—
Multnomah	54	5.8	5.8	69	7.4	7.4	37	4.0
Polk	5	5.8	5.8	8	9.3	9.3	4	*
Sherman	—	—	—	—	—	—	—	—
Tillamook	3	*	*	5	19.8	20.1	1	*
Umatilla	2	*	*	3	*	*	1	*
Union	4	*	*	4	*	*	3	*
Wallowa	—	—	—	1	*	*	1	*
Wasco	2	*	*	2	*	*	1	*
Washington	31	4.4	4.4	47	6.7	6.7	16	2.3
Wheeler	—	—	—	—	—	—	—	—
Yamhill	7	6.2	6.2	12	10.6	10.7	6	5.3

— Quantity is zero.

¹ Perinatal definition I includes fetal deaths at 28 weeks of gestation or more and infant deaths of less than 7 days.

² Perinatal definition II includes fetal deaths at 20 weeks of gestation or more and infant deaths of less than 28 days.

³ Neonatal deaths include infant deaths of less than 28 days.

⁴ Total includes reports with unknown county of residence.

* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks of gestation or more.

**TABLE 7-14. Perinatal death rates by county of residence,
Oregon residents, birth cohort, 2013-2015**

County of residence	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Rate	Ratio	No.	Rate	Ratio	No.	Rate
Total ⁴	739	5.4	5.4	1,027	7.5	7.5	471	3.5
Baker	3	*	*	3	*	*	—	—
Benton	12	5.6	5.6	17	8.0	8.0	7	3.3
Clackamas	53	4.3	4.3	81	6.6	6.6	38	3.1
Clatsop	7	5.6	5.7	9	7.3	7.3	6	4.9
Columbia	10	6.5	6.6	12	7.8	7.9	5	3.3
Coos	4	*	*	11	5.9	6.0	4	*
Crook	5	7.9	7.9	6	9.5	9.5	3	*
Curry	2	*	*	3	*	*	2	*
Deschutes	28	5.3	5.3	36	6.8	6.8	14	2.7
Douglas	22	6.7	6.7	31	9.4	9.5	17	5.2
Gilliam	—	—	—	—	—	—	—	—
Grant	1	*	*	1	*	*	—	—
Harney	4	*	*	4	*	*	4	*
Hood River	2	*	*	4	*	*	2	*
Jackson	41	5.8	5.8	51	7.2	7.3	23	3.3
Jefferson	5	5.8	5.8	9	10.3	10.4	4	*
Josephine	22	8.5	8.6	32	12.4	12.5	15	5.8
Klamath	8	3.3	3.3	14	5.8	5.9	5	2.1
Lake	—	—	—	1	*	*	—	—
Lane	60	5.5	5.6	81	7.5	7.5	43	4.0
Lincoln	8	6.2	6.2	11	8.5	8.6	5	3.9
Linn	24	5.5	5.5	41	9.3	9.4	14	3.2
Malheur	6	4.7	4.7	8	6.2	6.2	1	*
Marion	75	5.7	5.7	103	7.8	7.9	41	3.1
Morrow	1	*	*	1	*	*	—	—
Multnomah	162	5.7	5.7	215	7.6	7.6	113	4.0
Polk	16	6.2	6.2	21	8.2	8.2	14	5.5
Sherman	—	—	—	—	—	—	—	—
Tillamook	6	8.1	8.1	8	10.8	10.8	4	*
Umatilla	13	4.1	4.1	15	4.7	4.7	7	2.2
Union	9	9.9	9.9	10	11.0	11.0	6	6.6
Wallowa	1	*	*	2	*	*	2	*
Wasco	7	7.3	7.4	9	9.4	9.5	3	*
Washington	105	4.9	4.9	152	7.1	7.2	61	2.9
Wheeler	—	—	—	—	—	—	—	—
Yamhill	17	5.1	5.1	24	7.2	7.2	8	2.4

— Quantity is zero.

¹ Perinatal definition I includes fetal deaths at 28 weeks of gestation or more and infant deaths of less than 7 days.

² Perinatal definition II includes fetal deaths at 20 weeks of gestation or more and infant deaths of less than 28 days.

³ Neonatal deaths include infant deaths of less than 28 days.

⁴ Total includes reports with unknown county of residence.

* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks of gestation or more.

TABLE 7-15. Perinatal death rates by maternal characteristics, Oregon residents, birth cohort, 2015

Selected maternal characteristics	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Rate	Ratio	No.	Rate	Ratio	No.	Rate
Total ⁴	238	5.2	5.2	335	7.3	7.3	153	3.4
Marital status								
Married	138	4.7	4.7	191	6.5	6.6	92	3.2
Unmarried	99	6.0	6.0	140	8.5	8.5	59	3.6
Age of mother								
10-14	—	—	—	—	—	—	—	—
15-19	14	6.1	6.1	22	9.6	9.6	11	4.8
20-24	41	4.6	4.6	64	7.2	7.2	23	2.6
25-29	63	4.7	4.7	84	6.3	6.3	45	3.4
30-34	66	5.0	5.0	87	6.6	6.6	39	3.0
35-39	38	5.7	5.7	58	8.7	8.7	26	3.9
40-44	15	11.1	11.2	17	12.6	12.7	8	6.0
45+	—	—	—	2	*	*	1	*
Non-Hispanic race								
White	160	5.1	5.1	227	7.2	7.3	103	3.3
Black	14	13.6	13.6	18	17.4	17.5	10	9.7
American Indian	1	*	*	3	*	*	—	—
Asian ⁵	15	6.5	6.5	17	7.4	7.4	8	3.5
Pacific Islander ⁶	1	*	*	1	*	*	1	*
Other & not stated	3	*	*	3	*	*	3	*
Multiple races	6	3.5	3.5	10	5.9	5.9	4	*
Total Hispanic	38	4.5	4.5	56	6.6	6.6	24	2.8
Education								
8th grade or less	10	7.1	7.1	11	7.8	7.8	3	*
9th-12th grade, no diploma	20	4.1	4.1	33	6.7	6.8	14	2.9
High school/GED	58	5.8	5.8	88	8.8	8.8	38	3.8
More than high school	128	4.4	4.4	176	6.0	6.0	87	3.0
Start of prenatal care								
Any trimester	210	4.7	4.7	293	6.6	6.6	127	2.9
1st trimester	165	4.7	4.7	231	6.5	6.5	106	3.0
2nd trimester	37	5.0	5.0	54	7.3	7.3	19	2.6
3rd trimester	8	4.8	4.8	8	4.8	4.8	2	*
No prenatal care	13	39.5	39.8	19	57.1	58.1	13	39.8
Tobacco use								
Pre-pregnancy only	4	*	*	8	6.5	6.5	3	*
During pregnancy	32	7.1	7.1	50	11.0	11.1	19	4.2
No tobacco use	196	4.9	4.9	271	6.8	6.8	125	3.1
Multiple birth								
Yes	27	17.1	17.2	37	23.3	23.5	25	15.9
No	211	4.8	4.8	298	6.7	6.8	128	2.9

— Quantity is zero.

¹ Perinatal definition I includes fetal deaths at 28 weeks gestation or more and infant deaths of less than 7 days.

² Perinatal definition II includes fetal deaths at 20 weeks gestation or more and infant deaths of less than 28 days.

³ Neonatal deaths include infant deaths of less than 28 days.

⁴ Due to unreported items, the sum of all categories may not equal the total.

⁵ Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.

⁶ Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.

* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks of gestation or more.

TABLE 7-16. Perinatal death rates by maternal characteristics, Oregon residents, birth cohort, 2013-2015

Selected maternal characteristics	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Rate	Ratio	No.	Rate	Ratio	No.	Rate
Total⁴	739	5.4	5.4	1,027	7.5	7.5	471	3.5
Marital status								
Married	425	4.9	4.9	587	6.7	6.7	274	3.1
Unmarried	308	6.3	6.3	429	8.8	8.8	190	3.9
Age of mother								
10-14	2	*	*	3	*	*	2	*
15-19	53	7.3	7.3	70	9.6	9.6	37	5.1
20-24	136	4.9	4.9	191	6.9	6.9	81	2.9
25-29	194	4.9	4.9	269	6.8	6.8	122	3.1
30-34	184	4.7	4.7	244	6.3	6.3	112	2.9
35-39	115	6.1	6.1	176	9.3	9.3	79	4.2
40-44	47	11.8	11.9	59	14.8	14.9	34	8.6
45+	2	*	*	4	*	*	2	*
Non-Hispanic race								
White	501	5.3	5.4	694	7.4	7.4	317	3.4
Black	30	10.3	10.3	39	13.3	13.4	24	8.3
American Indian	9	6.2	6.2	12	8.2	8.2	4	*
Asian ⁵	37	5.6	5.6	50	7.6	7.6	18	2.7
Pacific Islander ⁶	7	7.9	8.0	10	11.3	11.4	2	*
Other & not stated	8	17.0	17.0	9	19.1	19.1	9	19.1
Multiple races	21	4.2	4.2	34	6.8	6.8	15	3.0
Total Hispanic	126	4.9	4.9	179	7.0	7.0	82	3.2
Education								
8th grade or less	32	7.1	7.1	42	9.3	9.3	19	4.2
9th-12th grade, no diploma	85	5.6	5.6	121	7.9	8.0	52	3.4
High school/GED	180	5.9	6.0	247	8.1	8.2	114	3.8
More than high school	383	4.5	4.5	537	6.2	6.3	260	3.0
Start of prenatal care								
Any trimester	645	4.9	4.9	887	6.7	6.8	397	3.0
1st trimester	507	4.9	4.9	707	6.8	6.9	326	3.2
2nd trimester	116	5.1	5.1	157	6.9	6.9	67	2.9
3rd trimester	22	4.4	4.4	23	4.6	4.6	4	*
No prenatal care	34	35.1	35.5	57	57.8	59.5	28	29.2
Tobacco use								
Pre-pregnancy only	17	5.3	5.3	28	8.7	8.8	11	3.4
During pregnancy	111	8.0	8.1	156	11.3	11.3	62	4.5
No tobacco use	597	5.0	5.0	828	6.9	7.0	384	3.2
Multiple birth								
Yes	93	19.8	19.8	121	25.6	25.8	93	19.8
No	646	4.9	4.9	904	6.8	6.9	378	2.9

- Quantity is zero.

¹ Perinatal Definition I includes fetal deaths at 28 weeks gestation or more and infant deaths of less than seven days.

² Perinatal Definition II includes fetal deaths at 20 weeks gestation or more and infant deaths of less than 28 days.

³ Neonatal deaths include infant deaths of less than 28 days.

⁴ Due to unreported items, the sum of all categories may not equal the total.

⁵ Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.

⁶ Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.

* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks gestation or more.

TABLE 7-17. Neonatal, postneonatal and infant death rates by maternal characteristics, Oregon residents, birth cohort, 2015

Selected maternal characteristics	Neonatal ¹		Postneonatal ²		Infant ³	
	No.	Rate	No.	Rate	No.	Rate
Total⁴	153	3.4	69	1.5	222	4.9
Marital status						
Married	92	3.2	33	1.1	125	4.3
Unmarried	59	3.6	36	2.2	95	5.8
Age of mother						
10-14	—	—	—	—	—	—
15-19	11	4.8	3	*	14	6.1
20-24	23	2.6	26	2.9	49	5.5
25-29	45	3.4	21	1.6	66	5.0
30-34	39	3.0	9	0.7	48	3.7
35-39	26	3.9	8	1.2	34	5.1
40-44	8	6.0	2	*	10	7.4
45+	1	*	—	—	1	*
Non-Hispanic race						
White	103	3.3	52	1.7	155	5.0
Black	10	9.7	4	*	14	13.6
American Indian	—	—	1	*	1	*
Asian ⁵	8	3.5	2	*	10	4.4
Pacific Islander ⁶	1	*	1	*	2	*
Other & not stated	3	*	—	—	3	*
Multiple races	4	*	4	*	8	4.7
Total Hispanic	24	2.8	5	0.6	29	3.4
Education						
8th grade or less	3	*	1	*	4	*
9th-12th grade, no diploma	14	2.9	10	2.1	24	4.9
High school/GED	38	3.8	25	2.5	63	6.3
More than high school	87	3.0	33	1.1	120	4.1
Start of prenatal care						
Any trimester	127	2.9	61	1.4	188	4.2
1st trimester	106	3.0	47	1.3	153	4.3
2nd trimester	19	2.6	11	1.5	30	4.1
3rd trimester	2	*	3	*	5	3.0
No prenatal care	13	39.8	1	*	14	42.8
Tobacco use						
Pre-pregnancy only	3	*	5	4.1	8	6.5
During pregnancy	19	4.2	18	4.0	37	8.2
No tobacco use	125	3.1	45	1.1	170	4.3
Multiple birth						
Yes	25	15.9	9	5.7	34	21.6
No	128	2.9	60	1.4	188	4.3

— Quantity is zero.

¹ Neonatal deaths include infant deaths of less than 28 days.

² Postneonatal deaths occur from day 28 through 364 after birth.

³ Infant deaths occur in the first year of life.

⁴ Due to unreported items, the sum of all categories may not equal the total.

⁵ Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.

⁶ Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.

* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: All rates per 1,000 live births.

TABLE 7-18. Neonatal, postneonatal and infant death rates by maternal characteristics, Oregon residents, birth cohort, 2013-2015

Selected maternal characteristics	Neonatal ¹		Postneonatal ²		Infant ³	
	No.	Rate	No.	Rate	No.	Rate
Total⁴	471	3.5	211	1.5	682	5.0
Marital status						
Married	274	3.1	94	1.1	368	4.2
Unmarried	190	3.9	115	2.4	305	6.3
Age of mother						
10-14	2	*	1	*	3	*
15-19	37	5.1	17	2.3	54	7.4
20-24	81	2.9	65	2.4	146	5.3
25-29	122	3.1	64	1.6	186	4.7
30-34	112	2.9	34	0.9	146	3.8
35-39	79	4.2	22	1.2	101	5.3
40-44	34	8.6	7	1.8	41	10.3
45+	2	*	1	*	3	*
Non-Hispanic race						
White	317	3.4	144	1.5	461	4.9
Black	24	8.3	9	3.1	33	11.4
American Indian	4	*	6	4.1	10	6.9
Asian ⁵	18	2.7	12	1.8	30	4.6
Pacific Islander ⁶	2	*	1	*	3	*
Other & not stated	9	19.1	1	*	10	21.2
Multiple races	15	3.0	9	1.8	24	4.8
Total Hispanic	82	3.2	29	1.1	111	4.4
Education						
8th grade or less	19	4.2	7	1.5	26	5.8
9th-12th grade, no diploma	52	3.4	38	2.5	90	5.9
High school/GED	114	3.8	69	2.3	183	6.1
More than high school	260	3.0	94	1.1	354	4.1
Start of prenatal care						
Any trimester	397	3.0	186	1.4	583	4.5
1st trimester	326	3.2	124	1.2	450	4.4
2nd trimester	67	2.9	49	2.2	116	5.1
3rd trimester	4	*	13	2.6	17	3.4
No prenatal care	28	29.2	7	7.3	35	36.5
Tobacco use						
Pre-pregnancy only	11	3.4	10	3.1	21	6.6
During pregnancy	62	4.5	62	4.5	124	9.0
No tobacco use	384	3.2	138	1.2	522	4.4
Multiple birth						
Yes	93	19.8	25	5.3	118	25.1
No	378	2.9	186	1.4	564	4.3

— Quantity is zero.

¹ Neonatal deaths include infant deaths of less than 28 days.

² Postneonatal deaths occur from day 28 through 364 after birth.

³ Infant deaths occur in the first year of life.

⁴ Due to unreported items, the sum of all categories may not equal the total.

⁵ Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.

⁶ Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.

* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: All rates per 1,000 live births.

TABLE 7-19. Term fetal deaths¹ by planned attendant and planned place of birth, Oregon occurrence, 2016

Planned birth attendant	Total term fetal deaths	Planned hospital birth ²	Planned out-of-hospital birth		
			Total	Intrapartum transfer to hospital ³	Non-hospital delivery ⁴
Total	45	43	–	–	–
MD's and DO's	33	33	–	–	–
Certified nurse midwives	10	10	–	–	–
Licensed direct-entry midwives	–	–	–	–	–
Unlicensed direct-entry midwives	–	–	–	–	–
Naturopathic physicians	–	–	–	–	–
Other	2	–	–	–	–

– Quantity is zero.

¹ Term fetal deaths include fetal deaths with gestation of 37 weeks or more.

² For planned hospital births, actual attendant type is used.

³ For planned out-of-hospital births with intrapartum transfer to hospitals, planned attendant type is reported by mother and not verified.

⁴ For planned out-of-hospital births with non-hospital deliveries, the actual attendant type is used.

TABLE 7-20. Term early neonatal deaths¹ by planned attendant and planned place of birth, Oregon occurrence, preliminary 2016 birth cohort

Planned birth attendant	Total term early neonatal deaths	Planned hospital birth ²	Planned out-of-hospital birth		
			Total	Intrapartum transfer to hospital ³	Non-hospital delivery ⁴
Total	21	19	2	1	1
MD's and DO's	19	19	–	–	–
Certified nurse midwives	–	–	–	–	–
Licensed direct-entry midwives	–	–	–	–	–
Unlicensed direct-entry midwives	1	–	1	1	–
Naturopathic physicians	–	–	–	–	–
Other	1	–	1	–	1

– Quantity is zero.

¹ Term early neonatal deaths include infant deaths of less than seven days and with gestation of 37 weeks or more.

² For planned hospital births, actual attendant type is used.

³ For planned out-of-hospital births with intrapartum transfer to hospitals, planned attendant type is reported by mother and not verified.

⁴ For planned out-of-hospital births with non-hospital deliveries, the actual attendant type is used.

NOTE: The 2016 birth cohort may include infant deaths that occurred in 2016 or 2017. Data for 2017 are undergoing editing processes and are subject to change.

Table 7-21: Fetal deaths by maternal characteristics by planned place of birth, Oregon occurrence, 2014-2016

Selected maternal characteristics	Total ¹	Planned hospital birth			Planned out-of-hospital birth		
		Clinical estimate of gestation					
		<37	37-40	41+	<37	37-40	41+
Total fetal deaths	569	418	122	13	1	3	1
Mother's age							
<20	39	33	6	—	—	—	—
20-24	109	89	12	2	—	1	—
25-29	147	101	37	5	—	1	—
30-34	144	102	34	4	1	1	1
35-39	98	70	26	1	—	—	—
40+	31	23	7	1	—	—	—
Single mention race²							
White	366	269	79	10	—	3	—
African American	22	15	7	—	—	—	—
American Indian	10	6	2	—	1	—	—
Asian/Hawaiian/Pacific Islander	47	30	14	—	—	—	1
Other/multiple races	22	18	3	—	—	—	—
Hispanic	102	80	17	3	—	—	—
Marital status							
Married	314	225	77	4	—	3	1
Unmarried	251	190	45	8	1	—	—
Mother's education							
8th grade or less	20	15	4	1	—	—	—
9th-12th, no diploma	76	57	11	2	—	1	—
High school/GED	144	106	35	3	—	—	—
Some college	122	96	21	1	1	1	—
Associate degree	39	31	8	—	—	—	—
Bachelor's degree	74	47	20	4	—	1	1
Postbaccalaureate	51	36	14	1	—	—	—
Pre-pregnancy body mass index							
Underweight (< 18.5)	10	8	2	—	—	—	—
Normal (18.5 - 24.9)	213	156	47	5	—	1	—
Overweight (25.0 - 29.9)	131	95	33	2	1	—	—
Obese (> 30.0)	171	128	34	3	—	2	—
Maternal tobacco use							
Tobacco use	96	74	21	—	—	—	—
No tobacco use	469	342	101	13	1	3	1
Initiation of care							
1st trimester	394	292	88	6	1	1	—
2nd trimester	98	70	22	3	—	1	—
3rd trimester	21	10	8	3	—	—	—
No care	35	28	3	1	—	1	—
Multiple birth							
Yes	26	22	3	—	—	—	—
No	543	396	119	13	1	3	1

— Quantity is zero.

¹ Total includes nine fetal deaths that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified. Total also includes two fetal deaths with unknown gestation.

² Non-Hispanic single mention race. The Hispanic category may include any mention of race.

NOTE: Numbers within each maternal characteristic may not add up to total fetal death counts due to unknown responses.

Table 7-22: Early neonatal deaths by maternal characteristics by planned place of birth, Oregon occurrence, preliminary 2014-2016 birth cohort

Selected maternal characteristics	Total	Planned hospital birth			Planned out-of-hospital birth		
		Clinical estimate of gestation					
		<37	37-40	41+	<37	37-40	41+
Total early neonatal deaths¹	386	320	45	4	1	3	2
Mother's age							
<20	31	25	4	—	1	—	—
20-24	79	67	7	2	—	1	—
25-29	94	81	10	1	—	—	1
30-34	95	80	11	1	—	—	1
35-39	60	47	10	—	—	2	—
40+	27	20	3	—	—	—	—
Single mention race²							
White	251	205	31	4	—	3	2
African American	18	15	1	—	—	—	—
American Indian	3	2	1	—	—	—	—
Asian/Hawaiian/Pacific Islander	17	16	1	—	—	—	—
Other/multiple races	24	18	3	—	—	—	—
Hispanic	73	64	8	—	1	—	—
Marital status							
Married	200	169	24	2	1	1	2
Unmarried	186	151	21	2	—	2	—
Mother's education							
8th grade or less	14	13	1	—	—	—	—
9th-12th, no diploma	53	41	10	—	—	—	—
High school/GED	100	84	12	2	1	—	—
Some college	72	60	7	—	—	—	—
Associate degree	33	28	4	1	—	—	—
Bachelor's degree	48	39	4	1	—	3	1
Postbaccalaureate	38	32	5	—	—	—	1
Source of Payment³							
Medicaid/Oregon Health Plan	202	169	21	3	—	2	—
Private insurance	159	133	21	1	1	1	2
Self-pay	12	8	2	—	—	—	—
Other coverage	8	7	1	—	—	—	—
Birth order							
1st	165	143	12	3	—	3	2
2nd	101	83	14	1	1	—	—
3rd	57	48	7	—	—	—	—
4th +	63	46	12	—	—	—	—
Pre-pregnancy body mass index							
Underweight (< 18.5)	5	5	—	—	—	—	—
Normal (18.5 - 24.9)	140	110	22	2	1	2	1
Overweight (25.0 - 29.9)	103	86	12	1	—	—	1
Obese (> 30.0)	105	93	9	1	—	1	—
Maternal tobacco use							
Tobacco use	59	45	10	—	—	—	—
No tobacco use	316	269	34	4	1	3	2
Initiation of care							
1st trimester	279	237	35	3	—	2	1
2nd trimester	65	53	8	1	1	1	1
3rd trimester	2	2	—	—	—	—	—
No care	25	15	2	—	—	—	—
Prenatal care⁴							
Adequate	235	184	41	4	—	3	2
Inadequate	134	122	3	—	1	—	—

— Quantity is zero.

¹ Total includes eight births that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified. Total also includes five births with unknown gestation.

² Non-Hispanic single mention race. The Hispanic category may include any mention of race.

³ Expected principal method of payment for delivery. Actual method of payment may differ.

⁴ Adequate care: Care that began in the first or second trimester and included at least five visits.
Inadequate care: No care, or care that began in the third trimester, or fewer than five visits.