

8-2018

Knappa School District Enrollment Forecast 2018-19 to 2027-28

Portland State University. Population Research Center

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**KNAPPA SCHOOL DISTRICT
ENROLLMENT FORECAST
2018-19 TO 2027-28**



AUGUST, 2018

Project Staff:

Charles Rynerson, Research Associate

Table 1
Historic and Forecast Enrollment
Knappa School District

	Actual			Forecast	
	2007-08	2012-13	2017-18	2022-23	2027-28
District Total	538	462	493	535	540
<i>5 year change</i>		<i>-76</i> <i>-14%</i>	<i>31</i> <i>7%</i>	<i>42</i> <i>9%</i>	<i>5</i> <i>1%</i>
K-5	236	208	239	291	247
<i>5 year change</i>		<i>-28</i> <i>-12%</i>	<i>31</i> <i>15%</i>	<i>52</i> <i>22%</i>	<i>-44</i> <i>-15%</i>
6-8	117	123	118	107	136
<i>5 year change</i>		<i>6</i> <i>5%</i>	<i>-5</i> <i>-4%</i>	<i>-11</i> <i>-9%</i>	<i>29</i> <i>27%</i>
9-12	185	131	136	137	157
<i>5 year change</i>		<i>-54</i> <i>-29%</i>	<i>5</i> <i>4%</i>	<i>1</i> <i>1%</i>	<i>20</i> <i>15%</i>

Population Research Center, PSU. August 2018.

Chart 1
KSD K-12 Enrollment History and Forecast

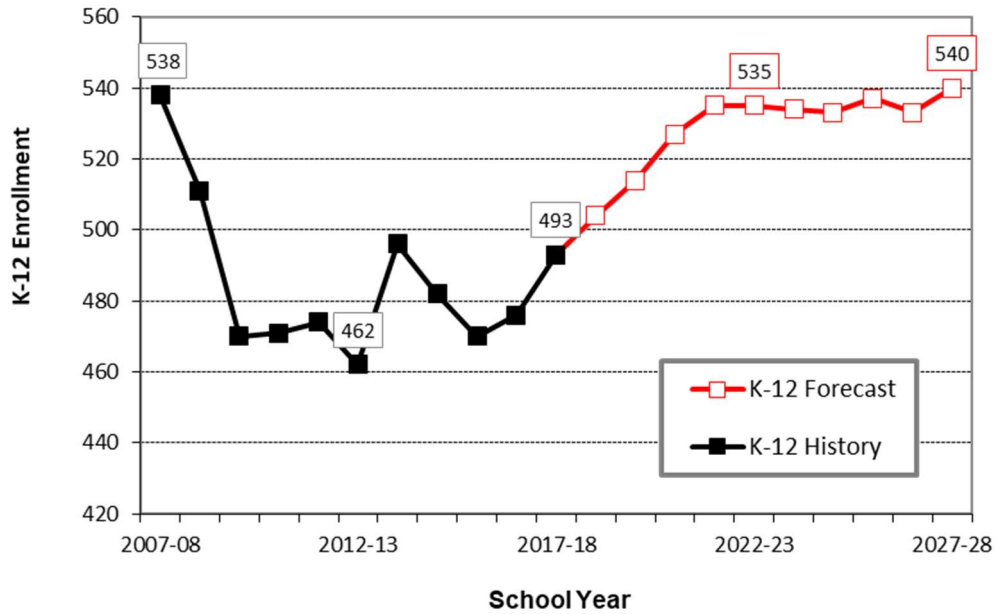


Table 2
Knappa School District, Enrollment History, 2007-08 to 2017-18

Grade	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
K	30	33	23	38	41	28	39	35	27	38	44
1	48	30	36	23	37	39	31	44	36	29	42
2	39	42	35	37	28	38	43	34	50	38	33
3	36	40	42	38	38	30	44	45	32	48	36
4	40	40	42	39	37	38	33	44	49	36	49
5	43	38	35	41	41	35	38	30	44	45	35
6	39	37	39	38	38	41	38	36	30	42	42
7	33	39	38	41	39	43	41	37	32	29	38
8	45	29	39	41	41	39	45	38	32	34	38
9	40	42	27	40	38	39	39	41	37	33	30
10	45	40	35	25	38	32	36	38	38	36	33
11	56	46	39	32	24	37	34	32	32	38	39
12	44	55	40	38	34	23	35	28	31	30	34
Total	538	511	470	471	474	462	496	482	470	476	493
<i>Annual change</i>		-27 -5.0%	-41 -8.0%	1 0.2%	3 0.6%	-12 -2.5%	34 7.4%	-14 -2.8%	-12 -2.5%	6 1.3%	17 3.6%
K-5	236	223	213	216	222	208	228	232	238	234	239
6-8	117	105	116	120	118	123	124	111	94	105	118
9-12	185	183	141	135	134	131	144	139	138	137	136

	5 Year Change: 2007-08 to 2012-13		5 Year Change: 2012-13 to 2017-18		10 Year Change: 2007-08 to 2017-18	
	Change	Pct.	Change	Pct.	Change	Pct.
K-5	-28	-12%	31	15%	3	1%
6-8	6	5%	-5	-4%	1	1%
9-12	-54	-29%	5	4%	-49	-26%
Total	-76	-14%	31	7%	-45	-8%

Source: Oregon Department of Education, Fall Membership Report (students enrolled on the first school day in October).

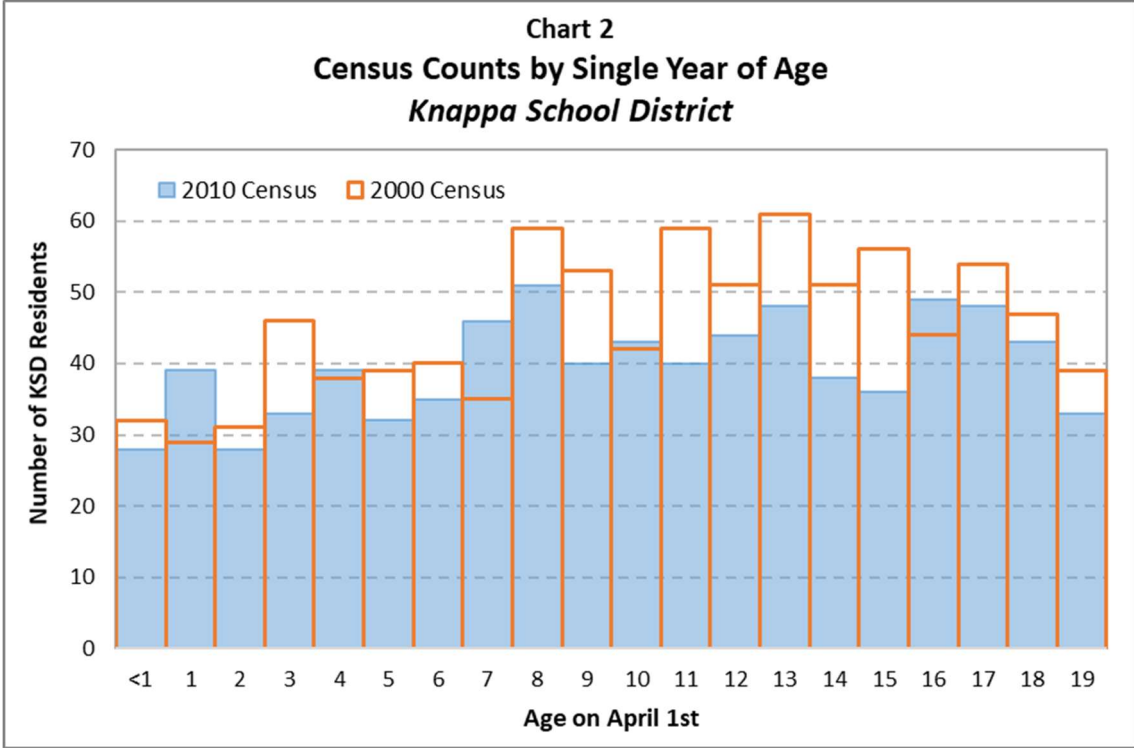


Table 3
Residential Building Permits Approved
Knappa School District

YEAR	New Homes	Demolitions	Net Growth
2014	5	0	5
2015	12	0	12
2016	13	0	13
2017	13	4	9
2018 (Jan-July)	6	1	5

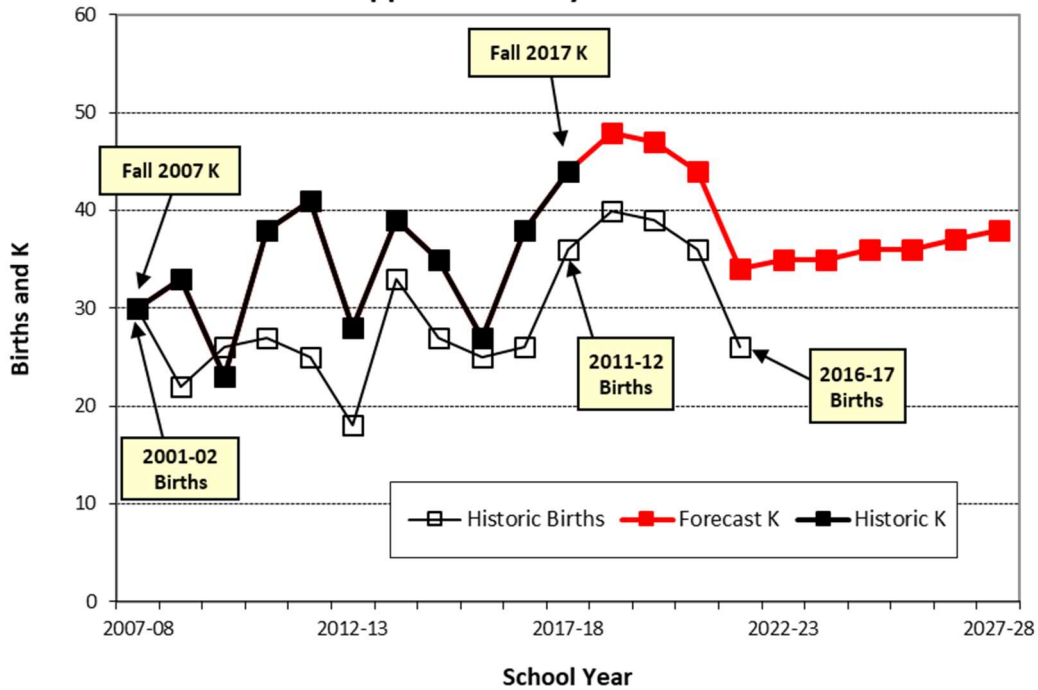
Source: Information from Clatsop County Building Codes Division, compiled by Construction Monitor, LLC, filtered and geocoded by PSU-PRC.

Table 4
Home School Students Registered with NWRESD
Knappa School District

YEAR	Students
2005-06	6
2006-07	13
2007-08	9
2008-09	8
2009-10	12
2010-11	13
2011-12	10
2012-13	13
2013-14	21
2014-15	26
2015-16	26
2016-17	30

Source: Northwest Regional Education Service District Annual Reports.

Chart 3
Birth Cohorts and Kindergarten Enrollment
Knappa SD History and Forecast



**Table 5
Knappa School District, Enrollment Forecasts, 2018-19 to 2027-28**

Grade	Actual	Forecast									
	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
K	44	48	47	44	34	35	35	36	36	37	38
1	42	48	52	51	48	37	38	38	39	39	40
2	33	47	53	58	57	53	41	42	42	43	43
3	36	32	46	51	56	55	51	40	41	41	42
4	49	38	34	48	54	59	58	54	42	43	43
5	35	47	36	33	46	52	57	56	52	40	41
6	42	34	46	35	32	45	50	55	54	50	39
7	38	39	32	43	33	30	42	47	52	51	47
8	38	37	38	31	42	32	30	41	46	51	50
9	30	37	36	37	30	41	31	29	40	45	50
10	33	29	36	35	36	29	40	30	28	39	44
11	39	32	28	35	34	35	28	39	29	27	38
12	34	36	30	26	33	32	33	26	36	27	25
Total	493	504	514	527	535	535	534	533	537	533	540
<i>Annual change</i>		11	10	13	8	0	-1	-1	4	-4	7
		2.2%	2.0%	2.5%	1.5%	0.0%	-0.2%	-0.2%	0.8%	-0.7%	1.3%
K-5	239	260	268	285	295	291	280	266	252	243	247
6-8	118	110	116	109	107	107	122	143	152	152	136
9-12	136	134	130	133	133	137	132	124	133	138	157

	5 Year Change: 2017-18 to 2022-23		5 Year Change: 2022-23 to 2027-28		10 Year Change: 2017-18 to 2027-28	
	Growth	Pct.	Growth	Pct.	Growth	Pct.
K-5	52	22%	-44	-15%	8	3%
6-8	-11	-9%	29	27%	18	15%
9-12	1	1%	20	15%	21	15%
Total	42	9%	5	1%	47	10%

Population Research Center, Portland State University, August 2018

APPENDIX

POPULATION, HOUSING, SOCIAL AND ECONOMIC PROFILE

2000 AND 2010 CENSUS PROFILE FOR THE DISTRICT

Population, Housing, Social and Economic Profile

Knappa School District 4, Oregon

	2007-2011			2012-2016			Compare Statistically Different?
	Estimate	CV *	Margin of Error (+/-)	Estimate	CV *	Margin of Error (+/-)	
POPULATION							
Total population	3,125	●	349	3,524	●	313	
Percent under 18 years	19.2%	●	3.6%	22.9%	●	3.7%	
Percent 65 years and over	12.9%	●	3.4%	18.9%	●	4.0%	**
Median age (years)	46.1	●	3.0	44.5	●	5.0	
Percent white alone, non-Latino	91.8%	●	4.5%	87.6%	●	5.6%	
HOUSING							
Total housing units	1,419	●	142	1,512	●	130	
Occupied housing units	1,326	●	130	1,359	●	117	
Owner occupied	1,114	●	118	1,160	●	120	
Percent owner-occupied	84.0%	●	5.9%	85.4%	●	5.8%	
Renter occupied	212	●	85	199	●	84	
Vacant housing units***	93	●	67	153	●	71	
Vacancy rate	6.6%	●	4.5%	10.1%	●	4.3%	
Average household size	2.36	●	0.18	2.59	●	0.17	
Renter households paying more than 30 percent of household income on rent plus utilities	34.1%	●	29.5%	64.1%	●	27.0%	
SOCIAL							
Age 25+ with a bachelor's degree or higher	10.2%	●	4.1%	16.0%	●	4.1%	**
Foreign-born population	89	●	110	61	●	40	
Percent foreign-born	2.8%	●	3.5%	1.7%	●	1.2%	
Age 5+ language other than English at home	167	●	127	100	●	86	
Percent language other than English	5.6%	●	4.3%	3.0%	●	2.6%	
ECONOMIC							
Median household income (2016 dollars)	\$48,544	●	\$6,690	\$60,689	●	\$8,052	**
Per capita income (2016 dollars)	\$26,670	●	\$3,347	\$27,540	●	\$2,772	
Percent of persons below poverty level	7.4%	●	3.1%	9.2%	●	5.1%	

* **Green**, **yellow**, and **red** icons indicate the reliability of each estimate using the coefficient of variation (CV). The lower the CV, the more reliable the data. **High reliability** (CV <15%) is shown in green, **medium reliability** (CV between 15-30% - be careful) is shown in yellow, and **low reliability** (CV >30% - use with extreme caution) is shown in red. However, there are no absolute rules for acceptable thresholds of reliability. Users should consider the margin of error and the need for precision.

** Indicates that the two estimates are statistically different at the 90 percent confidence level based on results of z-test taking into account the difference between the two estimates as well as an approximation of the standard errors of both estimates.

*** Vacant units include those for sale or rent, those sold or rented but not yet occupied, those held for seasonal, recreational, or occasional use, as well as other vacant such as homes under renovation, settlement of an estate, or foreclosures.

Source: U.S. Census Bureau, American Community Survey 5 year estimates. Surveys are collected over a 60 month period. Estimates represent average characteristics over the entire period. Tabulated by Population Research Center, Portland State University, with additional calculations from source data as needed.

2000 and 2010 Census Profile

Knappa School District

Approximation based on census blocks

POPULATION	2000		2010		Change	
SEX AND AGE						
Total population	3,093	100.0%	3,241	100.0%	148	4.8%
Under 5 years	176	5.7%	167	5.2%	-9	-5.1%
5 to 9 years	226	7.3%	204	6.3%	-22	-9.7%
10 to 14 years	264	8.5%	213	6.6%	-51	-19.3%
15 to 19 years	240	7.8%	209	6.4%	-31	-12.9%
20 to 24 years	118	3.8%	169	5.2%	51	43.2%
25 to 29 years	116	3.8%	160	4.9%	44	37.9%
30 to 34 years	173	5.6%	175	5.4%	2	1.2%
35 to 39 years	248	8.0%	178	5.5%	-70	-28.2%
40 to 44 years	250	8.1%	207	6.4%	-43	-17.2%
45 to 49 years	276	8.9%	254	7.8%	-22	-8.0%
50 to 54 years	270	8.7%	284	8.8%	14	5.2%
55 to 59 years	180	5.8%	288	8.9%	108	60.0%
60 to 64 years	151	4.9%	270	8.3%	119	78.8%
65 to 69 years	118	3.8%	156	4.8%	38	32.2%
70 to 74 years	112	3.6%	129	4.0%	17	15.2%
75 to 79 years	85	2.7%	92	2.8%	7	8.2%
80 to 84 years	55	1.8%	45	1.4%	-10	-18.2%
85 years and over	35	1.1%	41	1.3%	6	17.1%
Median age (years)	39.7		43.5		3.8	
Under 18 years	820	26.5%	717	22.1%	-103	-12.6%
18 to 64 years	1,868	60.4%	2,061	63.6%	193	10.3%
65 years and over	405	13.1%	463	14.3%	58	14.3%
Male population	1,599	100.0%	1,672	100.0%	73	4.6%
Under 5 years	105	6.6%	78	4.7%	-27	-25.7%
5 to 9 years	109	6.8%	112	6.7%	3	2.8%
10 to 14 years	140	8.8%	112	6.7%	-28	-20.0%
15 to 19 years	149	9.3%	103	6.2%	-46	-30.9%
20 to 24 years	66	4.1%	91	5.4%	25	37.9%
25 to 29 years	54	3.4%	85	5.1%	31	57.4%
30 to 34 years	90	5.6%	94	5.6%	4	4.4%
35 to 39 years	122	7.6%	83	5.0%	-39	-32.0%
40 to 44 years	120	7.5%	119	7.1%	-1	-0.8%
45 to 49 years	148	9.3%	131	7.8%	-17	-11.5%
50 to 54 years	139	8.7%	147	8.8%	8	5.8%
55 to 59 years	89	5.6%	147	8.8%	58	65.2%
60 to 64 years	72	4.5%	141	8.4%	69	95.8%
65 to 69 years	62	3.9%	74	4.4%	12	19.4%
70 to 74 years	57	3.6%	69	4.1%	12	21.1%
75 to 79 years	43	2.7%	47	2.8%	4	9.3%
80 to 84 years	21	1.3%	21	1.3%	0	0.0%
85 years and over	13	0.8%	18	1.1%	5	38.5%

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1.
 Tabulated by Population Research Center, Portland State University.

www.pdx.edu/prc

2000 and 2010 Census Profile

Knappa School District

Approximation based on census blocks

POPULATION (continued)	2000		2010		Change	
Male population (continued)						
Median age (years)	38.6		43.3		4.7	
Under 18 years	440	27.5%	370	22.1%	-70	-15.9%
18 to 64 years	963	60.2%	1,073	64.2%	110	11.4%
65 years and over	196	12.3%	229	13.7%	33	16.8%
Female population	1,494	100.0%	1,569	100.0%	75	5.0%
Under 5 years	71	4.8%	89	5.7%	18	25.4%
5 to 9 years	117	7.8%	92	5.9%	-25	-21.4%
10 to 14 years	124	8.3%	101	6.4%	-23	-18.5%
15 to 19 years	91	6.1%	106	6.8%	15	16.5%
20 to 24 years	52	3.5%	78	5.0%	26	50.0%
25 to 29 years	62	4.1%	75	4.8%	13	21.0%
30 to 34 years	83	5.6%	81	5.2%	-2	-2.4%
35 to 39 years	126	8.4%	95	6.1%	-31	-24.6%
40 to 44 years	130	8.7%	88	5.6%	-42	-32.3%
45 to 49 years	128	8.6%	123	7.8%	-5	-3.9%
50 to 54 years	131	8.8%	137	8.7%	6	4.6%
55 to 59 years	91	6.1%	141	9.0%	50	54.9%
60 to 64 years	79	5.3%	129	8.2%	50	63.3%
65 to 69 years	56	3.7%	82	5.2%	26	46.4%
70 to 74 years	55	3.7%	60	3.8%	5	9.1%
75 to 79 years	42	2.8%	45	2.9%	3	7.1%
80 to 84 years	34	2.3%	24	1.5%	-10	-29.4%
85 years and over	22	1.5%	23	1.5%	1	4.5%
Median age (years)	40.8		43.9		3.1	
Under 18 years	380	25.4%	347	22.1%	-33	-8.7%
18 to 64 years	905	60.6%	988	63.0%	83	9.2%
65 years and over	209	14.0%	234	14.9%	25	12.0%

AREA AND DENSITY

2010 Land Area - Acres ¹	43,551		43,551			
Persons per acre	0.1		0.1		0.0	4.8%
Persons per square mile	45		48		2	4.8%

RACE

Total population	3,093	100.0%	3,241	100.0%	148	4.8%
White alone	2,958	95.6%	3,046	94.0%	88	3.0%
Black or African American alone	13	0.4%	15	0.5%	2	15.4%
American Indian and Alaska Native alone	34	1.1%	51	1.6%	17	50.0%
Asian alone	7	0.2%	19	0.6%	12	171.4%
Native Hawaiian and Other Pacific Islander alone	3	0.1%	6	0.2%	3	100.0%
Some Other Race alone	5	0.2%	16	0.5%	11	220.0%
Two or More Races	73	2.4%	88	2.7%	15	20.5%

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1.

Tabulated by Population Research Center, Portland State University.

www.pdx.edu/prc

2000 and 2010 Census Profile

Knappa School District

Approximation based on census blocks

POPULATION (continued)	2000		2010		Change	
RACE (continued)						
Race alone or in combination with one or more other races ²						
White	3,028	97.9%	3,127	96.5%	99	3.3%
Black or African American	22	0.7%	21	0.6%	-1	-4.5%
American Indian and Alaska Native	83	2.7%	85	2.6%	2	2.4%
Asian	19	0.6%	55	1.7%	36	189.5%
Native Hawaiian and Other Pacific Islander	10	0.3%	22	0.7%	12	120.0%
Some Other Race	12	0.4%	21	0.6%	9	75.0%
HISPANIC OR LATINO AND RACE						
Total population	3,093	100.0%	3,241	100.0%	148	4.8%
Hispanic or Latino	56	1.8%	90	2.8%	34	60.7%
Not Hispanic or Latino	3,037	98.2%	3,151	97.2%	114	3.8%
White alone	2,918	94.3%	2,987	92.2%	69	2.4%
Black or African American alone	8	0.3%	15	0.5%	7	87.5%
American Indian and Alaska Native alone	33	1.1%	49	1.5%	16	48.5%
Asian alone	7	0.2%	19	0.6%	12	171.4%
Native Hawaiian and Other Pacific Islander alone	3	0.1%	5	0.2%	2	66.7%
Some Other Race alone	1	0.0%	1	0.0%	0	0.0%
Two or More Races	67	2.2%	75	2.3%	8	11.9%
RELATIONSHIP						
Total population	3,093	100.0%	3,241	100.0%	148	4.8%
In households	3,093	100.0%	3,241	100.0%	148	4.8%
In family households	2,723	88.0%	2,786	86.0%	63	2.3%
Householder	907	29.3%	927	28.6%	20	2.2%
Spouse ³	756	24.4%	762	23.5%	6	0.8%
Child	905	29.3%	861	26.6%	-44	-4.9%
Own child under 18 years	730	23.6%	605	18.7%	-125	-17.1%
Other relatives	98	3.2%	148	4.6%	50	51.0%
Nonrelatives	57	1.8%	88	2.7%	31	54.4%
In nonfamily households	370	12.0%	455	14.0%	85	23.0%
Householder	297	9.6%	353	10.9%	56	18.9%
Nonrelatives	73	2.4%	102	3.1%	29	39.7%
Population under 18 in households	820	100.0%	717	100.0%	-103	-12.6%
Population 18 to 64 in households	1,868	100.0%	2,061	100.0%	193	10.3%
Population 65 and over in households	405	100.0%	463	100.0%	58	14.3%
In group quarters	0	0.0%	0	0.0%	0	--

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1.
 Tabulated by Population Research Center, Portland State University.

www.pdx.edu/prc

2000 and 2010 Census Profile

Knappa School District

Approximation based on census blocks

POPULATION (continued)	2000		2010		Change	
GROUP QUARTERS						
Total group quarters population	0	--	0	--	0	--
Institutionalized population	0	--	0	--	0	--
Male	0	--	0	--	0	--
Female	0	--	0	--	0	--
Noninstitutionalized population	0	--	0	--	0	--
Male	0	--	0	--	0	--
Female	0	--	0	--	0	--
Population under 18 in group quarters	0	0.0%	0	0.0%	0	--
Population 18 to 64 in group quarters	0	0.0%	0	0.0%	0	--
Population 65 and over in group quarters	0	0.0%	0	0.0%	0	--
HOUSEHOLDS						
Total households	1,204	100.0%	1,280	100.0%	76	6.3%
Family households (families) ⁴	907	75.3%	927	72.4%	20	2.2%
With own children under 18 years	386	32.1%	331	25.9%	-55	-14.2%
Husband-wife family	756	62.8%	762	59.5%	6	0.8%
With own children under 18 years	285	23.7%	250	19.5%	-35	-12.3%
Male householder, no wife present	66	5.5%	65	5.1%	-1	-1.5%
With own children under 18 years	43	3.6%	34	2.7%	-9	-20.9%
Female householder, no husband present	85	7.1%	100	7.8%	15	17.6%
With own children under 18 years	58	4.8%	47	3.7%	-11	-19.0%
Nonfamily households ⁴	297	24.7%	353	27.6%	56	18.9%
Householder living alone	247	20.5%	277	21.6%	30	12.1%
Male	115	9.6%	150	11.7%	35	30.4%
65 years and over	31	2.6%	39	3.0%	8	25.8%
Female	132	11.0%	127	9.9%	-5	-3.8%
65 years and over	74	6.1%	69	5.4%	-5	-6.8%
Households with individuals under 18 years	427	35.5%	388	30.3%	-39	-9.1%
Households with individuals 65 years and over	296	24.6%	335	26.2%	39	13.2%
Average household size	2.57		2.53		-0.04	-1.4%
Average family size ⁴	2.94		2.91		-0.03	-1.0%

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1.
 Tabulated by Population Research Center, Portland State University.

www.pdx.edu/prc

2000 and 2010 Census Profile

Knappa School District

Approximation based on census blocks

HOUSING UNITS	2000		2010		Change	
Total housing units	1,346	100.0%	1,432	100.0%	86	6.4%
Occupied housing units	1,204	89.5%	1,280	89.4%	76	6.3%
Owner occupied ⁵	1,020	84.7%	1,088	85.0%	68	6.7%
Owned with a mortgage or a loan	N/A		691	63.5%		
Owned free and clear	N/A		397	36.5%		
Renter occupied	184	15.3%	192	15.0%	8	4.3%
Vacant housing units ⁶	142	10.5%	152	10.6%	10	7.0%
For rent	13	9.2%	10	6.6%	-3	-23.1%
For sale only	14	9.9%	17	11.2%	3	21.4%
Rented or sold, not occupied	24	16.9%	8	5.3%	-16	-66.7%
For seasonal, recreational, or occasional use	57	40.1%	82	53.9%	25	43.9%
For migrant workers	0	0.0%	0	0.0%	0	--
All other vacants	34	23.9%	35	23.0%	1	2.9%
Owner-occupied housing units	1,020	84.7%	1,088	85.0%	68	6.7%
Population in owner-occupied housing units	2,588		2,736		148	5.7%
Average household size of owner-occupied units	2.54		2.51		-0.03	-1.2%
Renter-occupied housing units	184	15.3%	192	15.0%	8	4.3%
Population in renter-occupied housing units	505		505		0	0.0%
Average household size of renter-occupied units	2.74		2.63		-0.11	-4.0%

1. Land area of the 2010 census blocks that approximate the area.
2. In combination with one or more of the other races listed. The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.
3. "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."
4. "Family households" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples unless there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.
5. Percentage distribution of ownership categories ("owned with a mortgage or a loan" and "owned free and clear") adds to 100 percent.
6. Percentage distribution of vacancy categories ("for rent," etc.) adds to 100 percent.

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1.
 Tabulated by Population Research Center, Portland State University.

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