



**SECONDARY DATA FOR A FISCAL  
IMPACT MODEL OF IDAHO COUNTIES**

by

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A. E. Research Series No. 92-5

May 19, 1992

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## SECONDARY DATA FOR A FISCAL IMPACT MODEL OF IDAHO COUNTIES

The public expects increased services provided by counties along with the lowest possible tax burden. County governments need accurate and complete information to improve local public finance decision making. To improve local fiscal policy making Tom Johnson and his graduate students at Virginia Polytechnic Institute developed a micro computer based fiscal impact model. The model provides decision makers a method to simulate the impacts of various demographic, fiscal, and economic changes in the community. Researchers at the University of Idaho's Agricultural Economics and Rural Sociology are adapting the Virginia model for Idaho counties.

The Virginia Impact Projections (VIP) model uses a combination of data from primary and secondary sources. The objective of this publication is to familiarize users with secondary data necessary for the model and aid the data collection process. To accomplish this objective section one summarizes the formulas and data sources used to obtain secondary data necessary for the Idaho Fiscal Impact Model which is based on the VIP model. Section two includes the secondary data set and appendix A describes the steps taken to calculate fire protection ratings. The model requires a complete set of data for an entire year (base year). Every effort was made to collect a complete set of data for 1990, however some variables were not available from the 1990 census at the time of this publication. Listed below are the secondary variables addressed in this manual.

## Variable Names

Population	Fire Protection Rating
Population Change	Ratio of Professional to Volunteer Firemen
County Area	Labor Force
Population Density	Unemployment
Mortality per 1000 population	Percent Labor Force Unemployed
Miles to "Standard Metropolitan Statistical Areas"	Total Employment
Non White Population	Base Employment
Enrollment	Residential Employment
Enrollment Change	Per Capita Income
Instructors per capita	Outcommuters
Graduates per 100 population	Incommuters
Crimes per capita	Number of Businesses
Crimes Cleared per capita	Development Groups

Population and Land Area Data

## 1. Population

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

## 2. Population Change (%)

Formula:  $(1990 \text{ Population} - 1980 \text{ Population}) / 1980 \text{ Population}$

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

### 3. County Area (Square Miles)

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

### 4. Population Density

Formula: 1990 Population/County area (Sq. Miles)

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

### 5. Mortality per 1000

Formula: total 1990 county mortality/(1990 population/1000)

Source: "1990 Annual Summary of Vital Statistics." Idaho Department of Health and Welfare, Prepared by Cooperative Center for Health Statistics.

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

### 6. Miles to "Standard Metropolitan Statistical Areas" ("SMSA")

Formula: Mileage calculated from county seat to regions "SMSA" (Spokane, Lewiston, Boise, Twin Falls, Pocatello, and Idaho Falls). See figure 1 for Idaho Counties and corresponding cities representing region's "SMSA".

Source: Idaho Official Highway Map.

### 7. Non White Percent

Formula: (1990 population - 1990 white population)/1990 population

Source: Both 1990 population and white population taken from: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

## Education Data

### 8. Enrollment

Source: "Financial Summaries, Idaho School Districts." State Superintendent of Public Instruction, Department of Education, 1986-87 and 1990-91, Boise, ID.

## 9. Enrollment Change (%)

Formula:  $\{(1990 \text{ enrollment} - 1986 \text{ enrollment}) / (1986 \text{ enrollment}) / 4 \text{ years}\}$

Source: "Financial Summaries, Idaho School Districts." State Superintendent of Public Instruction, Department of Education, 1986-87 and 1990-91, Boise, ID.

## 10. Instructors per capita

Formula:  $1990 \text{ full time equivalence (FTE)} / 1990 \text{ population}$

Note: FTE - the percentage of full time worked by each employee)

Source: "Annual Statistical Report Public School Certified Personnel and Employees in Non-Certified Positions." State Superintendent of Public Instruction, Department of Education, 1990-91, Boise, ID.

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

## 11. Graduates per 100 Population

Formula: Percent of people 25 and over with a high school diploma or higher.

Source: 1990 U.S. Department of Commerce News, Economics and Statistics Administration, Bureau of Census, Idaho Economic, Social, and Housing. Washington D.C. (Portrait Drawn from 1990 Census Long Form).

Public Safety Data

## 12. Crimes per capita

Formula:  $\text{Crimes per } 1000 / 1000$

Source "Crime in Idaho." Prepared by the Bureau of Criminal Identification, Uniform Crime Reporting Section, Department of Law Enforcement, 1990.

## 13. Crimes Cleared per capita

Formula:  $\text{Crimes per capita} * \text{percent crimes cleared}$

Source: "Crime in Idaho." Prepared by the Bureau of Criminal Identification, Uniform Crime Reporting Section, Department of Law Enforcement, 1990.

#### 14. Fire Protection Rating

Formula: County ratings were calculated using as weighted average of each fire district located in the county. District population as a percent of total county population was used as a weighting factor. If a district population was unknown it was considered in an "other" category where the population was calculated as total population minus known fire district populations. These weights were multiplied by the reported fire district rating and summed, resulting in a county weighted average fire protection rating. See Appendix A for county by county calculations.

Source: "Public Protection Classification Manual - Idaho." Idaho Surveying and Rating Bureau, Inc. Circular PC-1-92, February 25, 1992.

Source: 1990 Census of Population and Housing: on CDROM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

#### 15. Ratio of Professional to Volunteer Firemen

Source: Must contact individual fire districts.

#### Labor Force and Income Data

#### 16. Labor Force

Source: "Idaho Employment." A Publication of the Idaho Department of Employment, Research and Analysis Bureau, February 1991, Table 2, p. 20.

#### 17. Unemployment

Source: "Idaho Employment." A Publication of the Idaho Department of Employment, Research and Analysis Bureau, February 1991, Table 2, p. 20.

#### 18. Percent Labor Force Unemployed

Source: "Idaho Employment." A Publication of the Idaho Department of Employment, Research and Analysis Bureau, February 1991, Table 2, p. 20.

#### 19. Total Employment

Formula: Calculated within VIP model as Base Employment + Residentiary Employment (non base).

Source: "Idaho Employment." A Publication of the Idaho Department of Employment, Research and Analysis Bureau, February 1991, Table 2, p. 20.

## 20. Base Employment

Formula: Total employment in the following industries: Agriculture, Mining, Manufacturing, Federal Government.

Source: 1990 U.S. Department of Commerce News, Economics and Statistics Administration, Bureau of Census, Idaho Economic, Social, and Housing. Washington D.C. (Portrait Drawn from 1990 Census Long Form).

## 21. Residentiary Employment

Formula: Total Employment - Base Employment

Source: 1990 U.S. Department of Commerce News, Economics and Statistics Administration, Bureau of Census, Idaho Economic, Social, and Housing. Washington D.C. (Portrait Drawn from 1990 Census Long Form).

## 22. Per Capita Income

Source: 1990 U.S. Department of Commerce News, Economics and Statistics Administration, Bureau of Census, Idaho Economic, Social, and Housing. Washington D.C. (Portrait Drawn from 1990 Census Long Form).

## 23. Outcommuters

Source: 1980 Census of General Social and Economic Characteristics, U.S. Department of Commerce, Bureau of Census, Washington D.C. (Worked outside area of residence).

Note: 1990 data was not available from the Bureau of Census at the time of publication, therefore 1980 data was included in the data set.

## 24. Incommuters

Source: 1980 Census of General Social and Economic Characteristics, U.S. Department of Commerce, Bureau of Census, Washington D.C. (Place of work not reported).

Note: 1990 data was not available from the Bureau of Census at the time of publication, therefore 1980 data was included in the data set.

## Service Data

## 25. Number of Businesses

Formula: Number of establishments grouped by of classification of major reported activity.

Source: U.S. Bureau of Census, County Business Patterns, 1989, Idaho, U.S. Government Printing Office, Washington D.C. 1991. (a yearly publication)

## 26. Development Groups

Formula: Dummy variable takes on value of one if county has an organized development group and zero otherwise.

Source: Long, Cliff. Economic Development Analyst, Department of Commerce, Boise, ID (208) 334-2470.



Table 1 - Idaho Population and Land Profile by County for 1990.

County	Code	Population 1980	Population 1990	Population Change (%)	Area Sq. Miles	Population Density
Ada	00	173125	205775	18.86 <sup>1.1%</sup>	1055.0	195.04
Adams	01	3347	3254	-2.78 <sup>2.5%</sup>	1364.6	2.38
Bannock	02	65421	66026	0.92	1113.2	59.31
Bear Lake	03	6931	6084	-12.22	971.4	6.26
Benewah	04	8292	7937	-4.28	776.0	10.23
Bingham	05	36489	37583	3.00	2094.8	17.94
Blaine	06	9841	13552	37.71	2644.8	5.12
Boise	07	2999	3509	17.01	1902.5	1.84
Bonner	08	24163	26622	10.18	1737.6	15.32
Bonneville	09	65980	72207	9.44	1868.5	38.64
Boundary	10	7289	8332	14.31	1268.8	6.57
Butte	11	3342	2918	-12.69	2232.9	1.31
Camas	12	818	727	-11.12	1075.0	0.68
Canyon	13	83756	90076	7.55	589.7	152.73
Caribou	14	8695	6963	-19.92	1766.1	3.94
Cassia	15	19427	19532	0.54	2566.5	7.61
Clark	16	798	762	-4.51	1764.7	0.43
Clearwater	17	10390	8505	-18.14	2461.5	3.46
Custer	18	3385	4133	22.10	4925.5	0.84
Elmore	19	21565	21205	-1.67	3077.7	6.89
Franklin	20	8895	9232	3.79	665.4	13.87
Fremont	21	10813	10937	1.15	1866.8	5.86
Gem	22	11972	11844	-1.07	562.6	21.05
Gooding	23	11874	11633	-2.03	730.8	15.92
Idaho	24	14769	13783	-6.68	8485.1	1.62
Jefferson	25	15304	16543	8.10	1095.1	15.11
Jerome	26	14840	15138	2.01	599.8	25.23
Kootenai	27	59770	69795	16.77	1245.2	56.05
Latah	28	28749	30617	6.50	1076.7	28.44
Lemhi	29	7460	6899	-7.52	4564.3	1.51
Lewis	30	4118	3516	-14.62	479.0	7.34
Lincoln	31	3436	3308	-3.73	1205.5	2.74
Madison	32	19480	23674	21.53	471.5	50.20
Minidoka	33	19718	19361	-1.81	759.6	25.49
Nez Perce	34	33220	33754	1.61	849.1	39.75
Oneida	35	3258	3492	7.18	1200.4	2.91
Owyhee	36	8272	8392	1.45	7678.3	1.09
Payette	37	15825	16434	3.85	407.5	40.33
Power	38	6844	7086	3.54	1405.6	5.04
Shoshone	39	19226	13931	-27.54	2634.0	5.29
Teton	40	2897	3439	18.71	450.3	7.64
Twin Falls	41	52927	53580	1.23	1925.1	27.83
Valley	42	5604	6109	9.01	3678.1	1.66
Washington	43	8803	8550	-2.87	1456.3	5.87

Source: 1990 Census of Population and Housing: on CDRM, U.S. Department of Commerce, Bureau of Census, Washington D.C.

Table 1 cont. - Idaho Population and Land Profile by County for 1990.

County	Code	Mortality per 1000	Miles to "SMSA" *	Non White Percent
Ada	00	6.61	0.00	3.35
Adams	01	7.99	123.00	1.57
Bannock	02	6.16	0.00	6.49
Bear Lake	03	8.55	98.00	1.40
Benewah	04	7.81	84.00	8.30
Bingham	05	6.63	23.00	13.69
Blaine	06	4.65	93.00	2.29
Boise	07	5.70	44.00	2.22
Bonner	08	9.13	72.00	1.55
Bonneville	09	6.04	0.00	4.10
Boundary	10	8.04	109.00	4.58
Butte	11	8.57	67.00	3.05
Camas	12	6.88	64.00	2.06
Canyon	13	8.27	26.00	10.69
Caribou	14	4.45	58.00	2.00
Cassia	15	7.73	38.00	9.99
Clark	16	5.25	48.00	9.71
Clearwater	17	7.29	42.00	2.86
Custer	18	5.81	145.00	2.15
Elmore	19	5.14	37.00	10.88
Franklin	20	8.12	69.00	1.95
Fremont	21	5.03	42.00	6.07
Gem	22	10.22	31.00	4.41
Gooding	23	11.09	34.00	6.42
Idaho	24	9.79	73.00	2.94
Jefferson	25	5.92	18.00	5.54
Jerome	26	8.65	13.00	5.51
Kootenai	27	8.31	33.00	1.91
Latah	28	5.55	84.00	4.01
Lemhi	29	9.13	160.00	1.83
Lewis	30	6.83	57.00	5.52
Lincoln	31	9.67	21.00	2.33
Madison	32	3.55	26.00	3.94
Minidoka	33	7.08	37.00	14.57
Nez Perce	34	8.89	0.00	6.14
Oneida	35	9.45	51.00	1.75
Owyhee	36	6.55	34.00	17.36
Payette	37	10.41	55.00	7.45
Power	38	6.92	24.00	13.11
Shoshone	39	13.71	83.00	2.23
Teton	40	6.11	74.00	2.30
Twin Falls	41	8.25	0.00	4.44
Valley	42	7.53	79.00	1.98
Washington	43	11.93	71.00	10.41

Source: "1990 Annual Summary of Vital Statistics," Idaho Department of Health and Welfare, Prepared by Cooperative Center for Health Statistics.

Source: Idaho Official Highway Map. Mileage calculated from county seat to regions "SMSA" (Spokane, Lewiston, Boise, Twin Falls, Pocatello, and Idaho Falls).

\* See Figure 1 for Idaho counties and corresponding "SMSA's".

Figure 1 - Idaho Counties and Corresponding Cities Representing region's "SHSA".

Spokane ●

Lewiston ●

Boise ●

Idaho Falls ●

Twin Falls ●

Pocatello ●

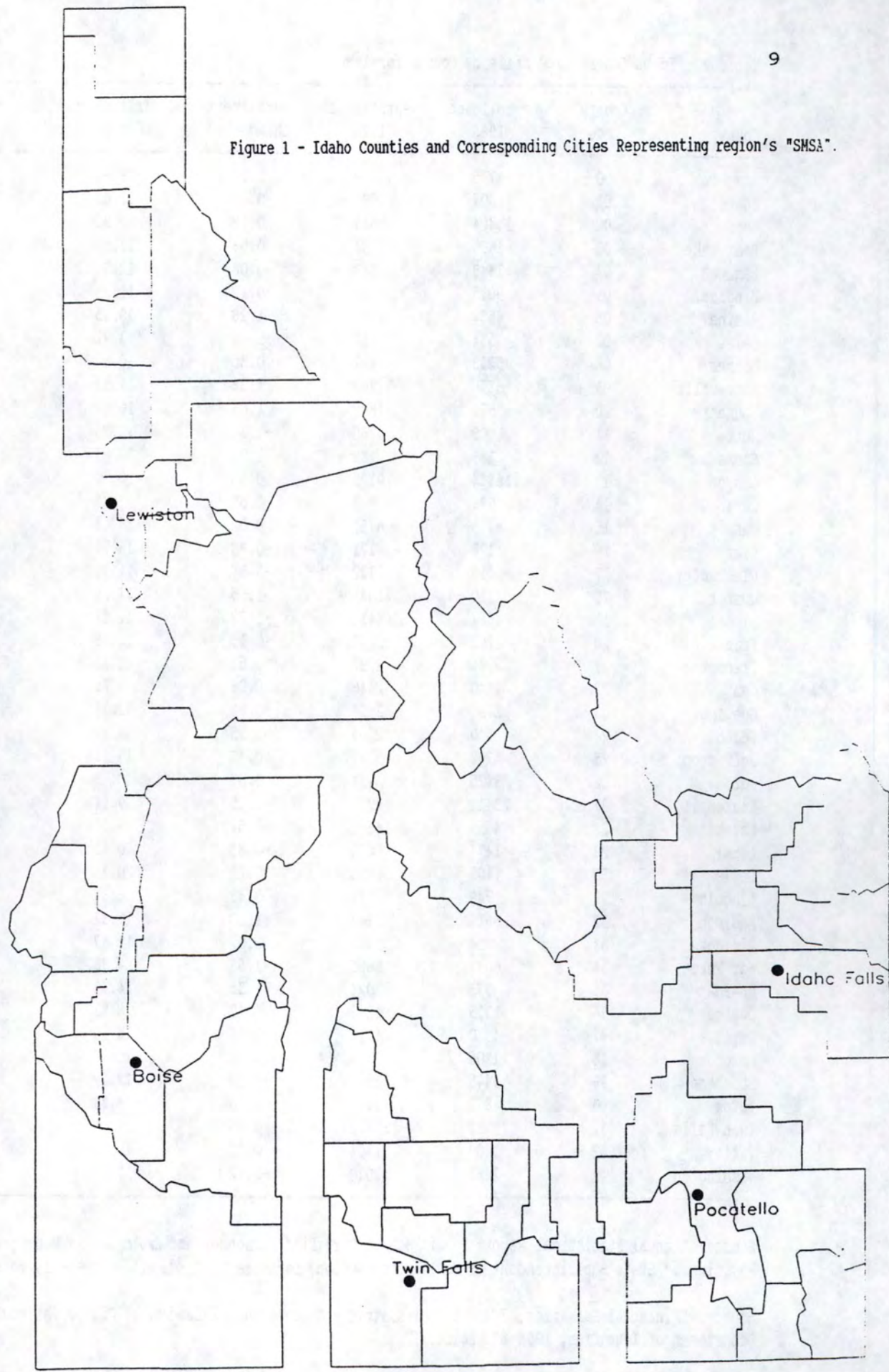


Table 2 - Idaho Education Profile by County for 1990.

County	County Code	enrollment 1986	enrollment 1990	enrollment change (%)	Instructors 1000 population	Graduates per 100
Ada	00	38775	40539	1.14	9.90	87.2
Adams	01	607	594	-0.54	12.60	75.3
Bannock	02	15404	15514	0.18	10.96	82.9
Bear Lake	03	1695	1731	0.53	13.51	79.8
Benewah	04	1849	1843	-0.08	12.96	74.2
Bingham	05	9035	9080	0.12	11.35	76.8
Blaine	06	4554	4787	1.28	18.65	91.7
Boise	07	584	717	5.69	13.91	80.0
Bonner	08	5233	5411	0.85	10.69	78.2
Bonneville	09	16850	17780	1.38	11.52	84.0
Boundary	10	1573	1640	1.06	10.03	74.6
Butte	11	809	765	-1.36	13.26	80.4
Camas	12	169	182	1.92	20.63	81.8
Canyon	13	18854	19125	0.36	10.90	71.0
Caribou	14	996	972	-0.60	7.71	84.3
Cassia	15	6705	6711	0.02	16.13	72.7
Clark	16	178	171	-0.98	15.75	74.7
Clearwater	17	2019	1732	-3.55	11.91	73.4
Custer	18	1110	1041	-1.55	14.28	81.7
Elmore	19	4664	4434	-1.23	11.87	83.1
Franklin	20	2763	2746	-0.15	14.36	82.2
Fremont	21	2736	2792	0.51	12.38	75.6
Gem	22	2440	2446	0.06	9.76	70.1
Gooding	23	2651	2558	-0.88	12.11	72.5
Idaho	24	2540	2504	-0.35	9.92	75.1
Jefferson	25	5290	5357	0.32	15.14	77.6
Jerome	26	3425	3434	0.07	10.75	72.4
Kootenai	27	13413	13278	-0.25	9.14	81.1
Latah	28	4657	4562	-0.51	9.06	86.6
Lemhi	29	1474	1425	-0.83	10.93	73.9
Lewis	30	1108	1116	0.18	20.36	78.8
Lincoln	31	749	762	0.43	16.84	79.8
Madison	32	5610	5968	1.60	11.32	87.6
Minidoka	33	4758	5152	2.07	12.89	68.5
Nez Perce	34	6073	5665	-1.68	8.86	79.9
Oneida	35	973	1024	1.31	14.78	78.7
Owyhee	36	1315	1293	-0.42	8.83	62.0
Payette	37	4930	4718	-1.08	14.79	67.4
Power	38	1906	1824	-1.08	15.06	72.1
Shoshone	39	3445	2949	-3.60	13.69	70.1
Teton	40	872	920	1.38	14.83	80.2
Twin Falls	41	11957	11740	-0.45	11.05	75.4
Valley	42	1409	1394	-0.27	13.32	83.8
Washington	43	2065	2030	-0.42	12.99	72.7

Source: "Annual Statistical Report Public School Certified Personnel and Employees in Non-Certified Positions." State Superintendent of Public Instruction, Department of Education, 1990-91, Boise, ID.

Source: "Financial Summaries, Idaho School Districts." State Superintendent of Public Instruction, Department of Education, 1986-87, Boise, ID.

Table 3 - Idaho Public Safety Profile by County for 1990.

County	Code	Crimes per capita	Cleared Crimes percent	Cleared Crimes per capita	Fire Protection Rating
Ada	00	4.755	27	1.284	5.10
Adams	01	1.321	7	0.092	8.70
Bannock	02	4.784	39	1.866	4.20
Bear Lake	03	2.153	38	0.818	7.40
Benewah	04	3.465	31	1.074	8.40
Bingham	05	2.214	39	0.863	7.40
Blaine	06	4.966	18	0.894	6.30
Boise	07	2.394	11	0.263	9.40
Bonner	08	3.758	32	1.203	8.40
Bonneville	09	5.052	33	1.667	5.10
Boundary	10	2.268	41	0.930	8.50
Butte	11	1.474	26	0.383	8.20
Camas	12	1.100	38	0.418	8.50
Canyon	13	6.039	29	1.751	6.50
Caribou	14	1.551	42	0.651	7.40
Cassia	15	4.843	31	1.501	7.30
Clark	16	2.493	11	0.274	8.50
Clearwater	17	2.787	22	0.613	7.20
Custer	18	1.694	17	0.288	8.50
Elmore	19	2.499	23	0.575	6.10
Franklin	20	2.437	39	0.950	8.40
Fremont	21	1.554	9	0.140	8.30
Gem	22	2.254	33	0.744	7.60
Gooding	23	1.693	26	0.440	7.80
Idaho	24	1.487	29	0.431	8.50
Jefferson	25	2.436	21	0.512	8.60
Jerome	26	3.455	27	0.933	7.20
Kootenai	27	4.795	34	1.630	6.40
Latah	28	2.528	23	0.581	5.80
Lemhi	29	NA	NA	NA	7.60
Lewis	30	2.198	61	1.341	7.40
Lincoln	31	NA	NA	NA	8.40
Madison	32	3.388	36	1.220	6.20
Minidoka	33	2.644	34	0.899	8.70
Nez Perce	34	3.306	23	0.760	4.90
Oneida	35	NA	NA	NA	8.20
Owyhee	36	2.467	24	0.592	9.00
Payette	37	3.852	15	0.578	8.40
Power	38	4.318	28	1.209	7.60
Shoshone	39	4.185	39	1.632	7.20
Teton	40	1.018	14	0.143	9.00
Twin Falls	41	4.686	28	1.312	5.80
Valley	42	4.780	28	1.338	7.90
Washington	43	2.842	39	1.108	7.50

Source: "Crime in Idaho," Prepared by the Bureau of Criminal Identification, Uniform Crime Reporting Section, Department of Law Enforcement, 1990.

Source: "Public Protection Classification Manual - Idaho," Idaho Surveying and Rating Bureau, Inc. Circular PC-1-92, February 25, 1992.

Table 4 - Idaho Labor Force Profile by County for 1990.

County	County Code	Labor Force	Unemployment	Labor Force Unemployed (%)	Total Employment
Ada	00	116504	4471	3.8	112033
Adams	01	1668	218	13.1	1450
Bannock	02	30493	1945	6.4	28548
Bear Lake	03	2283	135	5.9	2148
Benewah	04	3535	380	10.7	3155
Bingham	05	16564	1130	6.8	15434
Blaine	06	8805	325	3.7	8480
Boise	07	1414	96	6.8	1318
Bonner	08	12302	1075	8.7	11227
Bonneville	09	36965	1716	4.6	35249
Boundary	10	4491	345	7.7	4146
Butte	11	1645	82	5	1563
Camas	12	396	40	10.1	356
Canyon	13	43467	3247	7.5	40220
Caribou	14	3017	153	5.1	2864
Cassia	15	7933	690	8.7	7243
Clark	16	730	19	2.6	711
Clearwater	17	4177	525	12.6	3652
Custer	18	2936	112	3.8	2824
Elmore	19	8536	517	6.1	8019
Franklin	20	3474	153	4.4	3321
Fremont	21	4679	395	8.4	4284
Gem	22	4993	385	7.7	4608
Gooding	23	5286	227	4.3	5059
Idaho	24	6443	508	7.9	5935
Jefferson	25	6943	457	6.6	6486
Jerome	26	6630	394	5.9	6236
Kootenai	27	34827	2460	7.1	32367
Latah	28	14821	584	3.9	14237
Lemhi	29	3222	285	8.8	2937
Lewis	30	2016	132	6.5	1884
Lincoln	31	1825	93	5.1	1732
Madison	32	8495	461	5.4	8034
Minidoka	33	10091	771	7.6	9320
Nez Perce	34	16673	811	4.9	15862
Oneida	35	1214	51	4.2	1163
Owyhee	36	3512	189	5.4	3323
Payette	37	8500	584	6.9	7916
Power	38	2682	283	10.6	2399
Shoshone	39	5185	526	10.1	4659
Teton	40	1635	93	5.7	1542
Twin Falls	41	26750	1290	4.8	25460
Valley	42	4033	324	8	3709
Washington	43	4215	329	7.8	3886

Source: "Idaho Employment," A Publication of the Idaho Department of Employment, Research and Analysis Bureau, February 1991, Table 2, p. 20.

Table 5 - Idaho Labor Force Profile by County for 1990 and 1980.

County	County Code	Base Employment	Non Base Employment	Income Per Capita	Incommuters (1980)	Outcommuters (1980)
Ada	00	85905	18518	14268	4867	3983
Adams	01	746	547	13732	49	108
Bannock	02	24354	4707	10976	2172	1819
Bear Lake	03	1289	792	8989	67	599
Benewah	04	1863	1181	9921	79	169
Bingham	05	10550	4453	9474	1157	3046
Blaine	06	6879	921	19979	472	170
Boise	07	1020	418	11747	55	415
Bonner	08	7471	2974	10527	626	885
Bonneville	09	27523	4493	12123	2537	3130
Boundary	10	1999	1046	9054	304	92
Butte	11	815	383	10257	91	107
Camas	12	222	104	11373	27	2
Canyon	13	27126	12055	9916	2383	4460
Caribou	14	1571	1054	10808	252	333
Cassia	15	4629	3079	9726	400	1321
Clark	16	208	208	10608	4	15
Clearwater	17	2000	1061	11234	145	164
Custer	18	1041	820	11607	118	88
Elmore	19	6067	1306	9981	1118	539
Franklin	20	1854	1521	8532	189	658
Fremont	21	2613	1704	8674	391	846
Gem	22	2992	1765	10450	141	845
Gooding	23	3186	1847	9625	387	839
Idaho	24	3256	2016	10527	379	478
Jefferson	25	4866	1723	9055	813	2005
Jerome	26	4420	2240	9727	320	1649
Kootenai	27	24887	5808	12330	1912	3578
Latah	28	12114	1946	10892	256	1497
Lemhi	29	1951	825	10624	154	210
Lewis	30	786	529	9780	66	245
Lincoln	31	1160	427	9339	58	176
Madison	32	6722	1870	7385	249	1286
Minidoka	33	5247	2939	10110	608	2036
Nez Perce	34	11296	3999	12476	1128	1213
Oneida	35	761	566	8824	22	169
Owyhee	36	1802	1800	9786	204	556
Payette	37	4702	2100	9400	416	2137
Power	38	1749	1280	9951	200	619
Shoshone	39	3582	1728	10373	400	138
Teton	40	1129	467	8983	26	179
Twin Falls	41	17572	6787	11096	1619	1234
Valley	42	2023	525	12344	162	102
Washington	43	2183	1040	9088	175	403

Source: 1980 Census of General Social and Economic Characteristics, U.S. Department of Commerce, Bureau of Census, Washington D.C.

Table 6 - Idaho Service Profile by County for 1989 and 1990.

County	County Code	Number of Businesses (1989)	Number of Development Groups	Development Group Dummy Variable
Ada	00	6217	4	1
Adams	01	72	0	0
Bannock	02	1571	3	1
Bear Lake	03	107	1	1
Benewah	04	218	1	1
Bingham	05	584	0	0
Blaine	06	836	1	1
Boise	07	65	0	0
Bonner	08	814	2	1
Bonneville	09	1923	1	1
Boundary	10	227	0	0
Butte	11	59	0	0
Camas	12	13	0	0
Canyon	13	1781	2	1
Caribou	14	166	2	1
Cassia	15	500	1	1
Clark	16	14	0	0
Clearwater	17	260	2	1
Custer	18	95	0	0
Elmore	19	336	0	0
Franklin	20	148	1	1
Fremont	21	190	1	1
Gem	22	207	1	1
Gooding	23	262	0	0
Idaho	24	358	2	1
Jefferson	25	216	0	0
Jerome	26	280	0	0
Kootenai	27	1955	2	1
Latah	28	735	1	1
Lemhi	29	212	0	0
Lewis	30	106	0	0
Lincoln	31	41	0	0
Madison	32	416	2	1
Minidoka	33	310	0	0
Nez Perce	34	1082	2	1
Oneida	35	55	0	0
Owyhee	36	103	1	1
Payette	37	274	1	1
Power	38	138	0	0
Shoshone	39	341	1	1
Teton	40	84	1	1
Twin Falls	41	1658	3	1
Valley	42	287	0	0
Washington	43	181	0	0

Source: U.S. Bureau of Census, County Business Patterns, 1989, Idaho, U.S. Government Printing Office, Washington D.C. 1991.

Source: Long, Cliff. Economic Development Analyst, Department of Commerce, Boise, ID (208) 334-2470.



Appendix A

Calculations for Determining Average Fire Protection Ratings County by County

## Ada

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Boise	3	125738	0.61	1.83
Kuna	7	1955	0.01	0.07
Meridian	6	9596	0.05	0.28
Other	8.7	68486	0.33	2.90
Total		205775	1.00	5.07

## Adams

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Council	7	831	0.26	1.79
New Meadows	8	534	0.16	1.31
Other	9.60	1889	0.58	5.57
Total		3254	1.00	8.67

## Bannock

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Arimo	9	311	0.00	0.04
Chubbock	4	7791	0.12	0.47
Downey	8	626	0.01	0.08
Inkom	7	769	0.01	0.08
Lava Hot Springs	8	420	0.01	0.05
McCannon	8	722	0.01	0.09
Pocatello	3	46027	0.70	2.09
Other	9.30	9360	0.14	1.32
Total		66026	1.00	4.22

## Bear Lake

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Georgetown	8	558	0.09	0.73
Montpelier	6	2656	0.44	2.62
Paris	8	581	0.10	0.76
Other	8.75	2289	0.38	3.29
Total		6084	1.00	7.41

## Benewah

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Chatcolet	10	72	0.01	0.09
Plummer	8	804	0.10	0.81
St. Maries	6	2442	0.31	1.85
Tensed	10	90	0.01	0.11
Other	9.70	4529	0.57	5.54
Total		7937	1.00	8.40

## Bingham

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Aberdeen	6	1406	0.04	0.22
Atomic City	10	25	0.00	0.01
Basalt	8	407	0.01	0.09
Blackfoot	4	9646	0.26	1.03
Firth	8	429	0.01	0.09
Fort Hall agency	8	1311	0.03	0.28
Shelley	7	3536	0.09	0.66
Other	9.00	20823	0.55	4.99
Total		37583	1.00	7.36

## Blaine

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Bellevue	7	1275	0.09	0.66
Hailey	5	3687	0.27	1.36
Ketchum	4	2523	0.19	0.74
Sun Valley	5	938	0.07	0.35
Other	8.40	5129	0.38	3.18
Total		13552	1.00	6.29

## Boise

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Horseshoe Bend	8	643	0.18	1.47
Idaho City	8	322	0.09	0.73
Other	10.00	2544	0.72	7.25
Total		3509	1.00	9.45

## Bonner

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Clark Fork	8	448	0.02	0.13
Dover	9	294	0.01	0.10
Hope	9	99	0.00	0.03
Priest River	7	1560	0.06	0.41
Sandpoint	5	5203	0.20	0.98
Other	9.50	19018	0.71	6.79
Total		26622	1.00	8.44

## Bonneville

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Ammon	6	5002	0.07	0.42
Idaho Falls	3	43929	0.61	1.83
Iona	5	1049	0.01	0.07
Ucon	7	895	0.01	0.09
Other	9.20	21332	0.30	2.72
Total		72207	1.00	5.12

## Boundary

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Bonnors Ferry	5	2193	0.26	1.32
Moyie Springs	7	415	0.05	0.35
Other	10.00	5724	0.69	6.87
Total		8332	1.00	8.53

## Butte

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Arco	6	1016	0.35	2.09
Moore	8	190	0.07	0.52
Other	9.50	1712	0.59	5.57
Total		2918	1.00	8.18

## Camas

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Fairfield	7	371	0.51	3.6
Other	10	356	0.49	4.9
Total		727	1.00	8.5

## Canyon

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Caldwell	5	18400	0.20	1.02
Melba	7	252	0.00	0.02
Middleton	6	1851	0.02	0.12
Nampa	4	28365	0.31	1.26
Parma	6	1597	0.02	0.11
Wilder Rural	9	1232	0.01	0.12
Other	9.10	38379	0.43	3.88
Total		90076	1.00	6.53

## Caribou

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Bancroft	8	393	0.06	0.45
Grace	7	973	0.14	0.98
Soda Springs	6	3111	0.45	2.68
Other	9.30	2486	0.36	3.32
Total		6963	1.00	7.43

## Cassia

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Albion	9	305	0.02	0.14
Burley	4	8420	0.43	1.72
Declo	8	279	0.01	0.11
Oakley	8	635	0.03	0.26
Other	10.00	9893	0.51	5.07
Total		19532	1.00	7.30

## Clark

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Dubois	8	420	0.55	4.41
Spencer	10	11	0.01	0.14
Other	9.00	331	0.43	3.91
		762	1.00	8.46

## Clearwater

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Orofino	5	2868	0.34	1.69
Pierce	7	746	0.09	0.61
Weippe	8	532	0.06	0.50
Other	8.60	4359	0.51	4.41
Total		8505	1.00	7.21

## Custer

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Challis	6	1073	0.26	1.56
Clayton	10	26	0.01	0.06
Mackey	7	574	0.14	0.97
Sawtooth Valley	9	71	0.02	0.15
Other	10.00	2389	0.58	5.78
Total		4133	1.00	8.53

## Elmore

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Glenns Ferry	7	1304	0.06	0.43
Mountain Home	4	7913	0.37	1.49
Mountain Home AFB	5	5936	0.28	1.40
Other	9.60	6052	0.29	2.74
Total		21205	1.00	6.06

## Franklin

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Clifton	10	228	0.02	0.25
Dayton	10	357	0.04	0.39
Franklin	10	478	0.05	0.52
Oxford	10	44	0.00	0.05
Preston	6	3710	0.40	2.41
Weston	9	390	0.04	0.38
Other	10.00	4025	0.44	4.36
Total		9232	1.00	8.35

## Fremont

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Ashton	7	1114	0.10	0.71
St. Anthony	6	3010	0.28	1.65
Other	9.50	6813	0.62	5.92
Total		10937	1.00	8.28

## Gem

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Emmet	5	4601	0.39	1.94
Other	9.30	7243	0.61	5.69
Total		11844	1.00	7.63

## Gooding

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Bliss	10	185	0.02	0.16
Gooding	6	2820	0.24	1.45
Hagerman	8	600	0.05	0.41
Wendell	5	1963	0.17	0.84
Other	9.50	6065	0.52	4.95
Total		11633	1.00	7.82

## Idaho

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Cottonwood	7	822	0.06	0.42
Ferdinand	9	135	0.01	0.09
Grangeville	6	3226	0.23	1.40
Kamiah	9	3	0.00	0.00
Kooskia	8	692	0.05	0.40
Riggins	8	443	0.03	0.26
Whitebird	9	108	0.01	0.07
Other	9.60	8354	0.61	5.82
Total		13783	1.00	8.46



## Jefferson

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Hamer	9	79	0.00	0.04
Rigby	6	2681	0.16	0.97
Ririe	7	522	0.03	0.22
Roberts	8	557	0.03	0.27
Other	9.30	12704	0.77	7.14
Total		16543	1.00	8.65

## Jerome

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Eden	9	314	0.02	0.19
Hazelton	8	394	0.03	0.21
Jerome	5	6529	0.43	2.16
Other	9.00	7901	0.52	4.70
Total		15138	1.00	7.25

## Kootenai

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Athol	8	346	0.00	0.04
Coeur d'Alene	4	24563	0.35	1.41
Harrison	8	226	0.00	0.03
Hauser Lake	9	380	0.01	0.05
Hayden	6	3744	0.05	0.32
Hayden Lake	6	338	0.00	0.03
Post Falls	6	7349	0.11	0.63
Rathdrum	6	2000	0.03	0.17
Spirit Lake	7	790	0.01	0.08
Other	8.45	30059	0.43	3.64
Total		69795	1.00	6.40

## Latah

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Bovill	8	256	0.01	0.07
Deary	7	529	0.02	0.12
Genesee	7	725	0.02	0.17
Julaetta	7	488	0.02	0.11
Kendrick	7	325	0.01	0.07
Moscow	4	18519	0.60	2.42
Onaway	8	203	0.01	0.05
Potlatch	7	790	0.03	0.18
Troy	7	699	0.02	0.16
Other	9.30	8083	0.26	2.46
Total		30617	1.00	5.81

## Lemhi

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Leadore	10	74	0.01	0.11
Salmon	5	2941	0.43	2.13
Other	9.60	3884	0.56	5.40
Total		6899	1.00	7.64

## Lewis

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Craigmont	7	542	0.15	1.08
Kamiah	6	1154	0.33	1.97
Nez Perce	8	453	0.13	1.03
Reubens	10	46	0.01	0.13
Winchester	7	262	0.07	0.52
Other	9.00	1059	0.30	2.71
Total		3516	1.00	7.44

## Lincoln

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Dietrich	9	127	0.04	0.35
Richfield	8	383	0.12	0.93
Shoshone	7	1249	0.38	2.64
Other	9.60	1549	0.47	4.50
Total		3308	1.00	8.41

## Madison

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Rexburg	5	14302	0.60	3.02
Sugar City	7	1275	0.05	0.38
Other	8.10	8097	0.34	2.77
Total		23674	1.00	6.17

## Minidoka

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Burley	4	282	0.01	0.06
Heyburn	6	2714	0.14	0.84
Minidoka	7	67	0.00	0.02
Paul	7	901	0.05	0.33
Other	9.40	15397	0.80	7.48
Total		19361	1.00	8.72

## Nez Perce

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Lapwai	8	932	0.03	0.22
Lewiston	4	28082	0.83	3.33
Other	9.50	4740	0.14	1.33
Total		33754	1.00	4.88

## Oneida

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Malad	7	1946	0.56	3.90
Other	9.80	1546	0.44	4.34
Total		3492	1.00	8.24

## Owyhee

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Grandview	8	330	0.04	0.31
Marsing	7	798	0.10	0.67
Other	9.30	7264	0.87	8.05
Total		8392	1.00	9.03

## Payette

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Fruitland	6	2400	0.15	0.88
New Plymouth	7	1313	0.08	0.56
Other	9.00	12721	0.77	6.97
Total		16434	1.00	8.40

## Power

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Arbon	10	613	0.09	0.87
American Falls	6	3757	0.53	3.18
Other	9.40	2716	0.38	3.60
Total		7086	1.00	6.78

## Shoshone

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Kellogg	5	2591	0.19	0.93
Mullan	7	821	0.06	0.41
Osburn	7	1579	0.11	0.79
Pinehurst	6	1722	0.12	0.74
Smelterville	6	464	0.03	0.20
Wallace	7	1010	0.07	0.51
Wardner	6	246	0.02	0.11
Other	8.90	5498	0.39	3.51
Total		13931	1.00	7.20

## Teton

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Driggs	7	846	0.25	1.72
Tetonia	8	132	0.04	0.31
Victor	8	292	0.08	0.68
Other	10.00	2169	0.63	6.31
Total		3439	1.00	9.02

## Twin Falls

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Buhl	7	3516	0.07	0.46
Castleford	8	179	0.00	0.03
Filer	8	1511	0.03	0.23
Hanson	8	848	0.02	0.13
Hollister	9	144	0.00	0.02
Kimberly	6	2367	0.04	0.27
Murtaugh	10	134	0.00	0.03
Twin Falls	3	27591	0.51	1.54
Other	9.50	17290	0.32	3.07
Total		53580	1.00	5.76

## Valley

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Cascade	7	877	0.14	1.00
Donnelly	9	135	0.02	0.20
McCall	6	2005	0.33	1.97
Other	9.40	3092	0.51	4.76
Total		6109	1.00	7.93

## Washington

Fire District	Rating	Fire District Population	Population (% of total)	Weighted Ave. Fire Rating
Cambridge	9	374	0.04	0.39
Midvale	8	110	0.01	0.10
Weiser	6	4571	0.53	3.21
Other	9.30	3495	0.41	3.80
Total		8550	1.00	7.51

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