



RESEARCH & BUSINESS  
DEVELOPMENT CENTER

# Eastern Idaho Report | April 2023

## Platinum Sponsors



## Annual Sponsorship Levels

### Bronze (\$0 - \$499)

Listed as Bronze Sponsor with company name on RBDC economic report website using normal website font.

### Silver (\$500 - \$999)

Listed as Silver Sponsor with company name on RBDC economic report website using large website font.

### Gold (\$1,000 - \$2,999)

Listed as Gold Sponsor with company name and logo on RBDC economic report website using large website font.

### Platinum (\$3,000+)

Listed as Platinum Sponsor with company name and logo on RBDC economic report website using large website font. Company logo will also be listed on a Platinum Sponsor PowerPoint slide at the beginning of each new edition of the published economic report.

- **Agriculture 4 – 28**
- **Information Technology 29 – 40**
- **Student Profiles 41**



# Agriculture

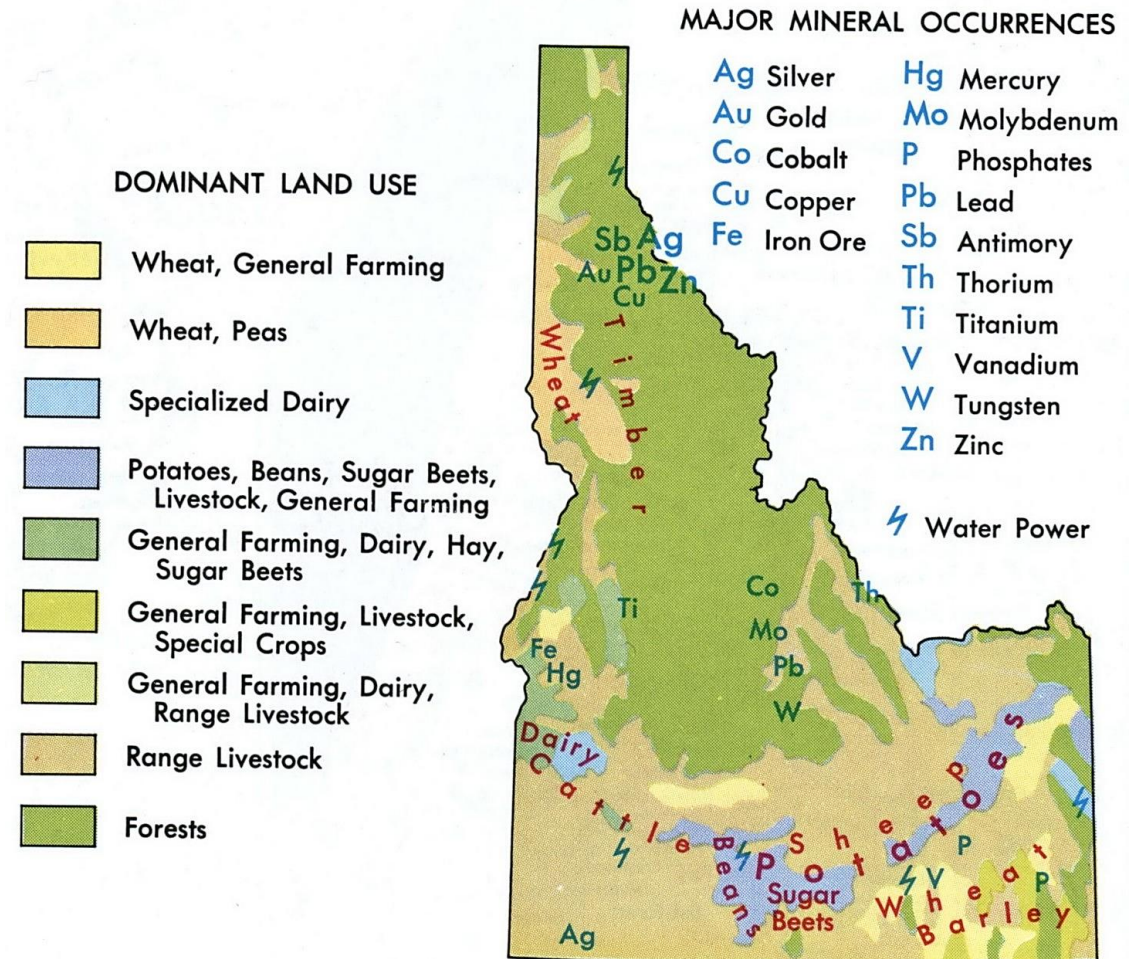
- Idaho has 52.9 Million acres of land.
- As of 2022, 21.7% (11.5 Million acres) of Idaho land is for Agriculture.
  - 59.2% (6.8 Million acres) for Crops, and
  - 40.8% (4.7 Million acres) for Pasture.

The table below shows the Location Quotient for Crop Production in Idaho and all the United States for the third quarter of 2022.

Since Idaho has a higher Location Quotient, we can say that In the 2022, Crop Production made up a large share of Idaho's employment than the rest of the nation.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36

## Agriculture, Industry and Resources



Map of Idaho Resources, agriculture, industry (pacific-map.com)

## Top 5 Crops (by Production) in 2022:

1. **Corn:** 21.1 Billion LBS
2. **Sugar Beets:** 13.0 Billion LBS
3. **Potatoes:** 12.0 Billion LBS
4. **Alfalfa:** 6.8 Billion LBS
5. **Barley:** 6.0 Billion LBS

## Livestock Variety (by Quantity) in 2022:

- **Cattle:** (3,610,000):
  - Beef Cows = 449,000
  - Milk Cows = 661,000
  - Calves = 2,500,000
- **Sheep:** (220,000):
  - Lambs = 220,000
- **Goats:** (~6,400):
  - Milk Goats = 6,400
- **Hogs:** (24,000)

The Table below shows the Acres, Production, and Yield for each crop grown in Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	Yield (LBS/Acre)
WHEAT	1,157,000	80,000	1,077,000	566,622	8.76%	5,208
OATS	50,000	34,000	34,000	5,231	0.08%	1,891
ALFALFA	1,500,159	159	1,500,000	677,562	10.47%	8,040
SUGAR BEETS	173,000	3,000	170,000	1,298,587	20.07%	76,200
CORN	320,000	-	320,000	2,110,472	32.61%	70,096
SAFFLOWER	24,500	1,000	23,500	1,384	0.02%	600
POTATOES	295,000	500	294,500	1,195,882	18.48%	41,000
BARLEY	560,000	20,000	540,000	597,379	9.23%	11,100
BEANS	45,000	1,000	44,000	12,356	0.19%	1,157
PEAS	28,000	1,000	27,000	5,018	0.08%	1,690
LENTILS	15,000	1,000	14,000	945	0.01%	570
All Crops <sup>3</sup>	4,167,659	141,659	4,026,000	6,471,438	100.00%	19,777

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)

<sup>2</sup>Shows the % amount the crop produces based on the total production of the State of Idaho

<sup>3</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

The Table below shows the Crop Income grown in Idaho compared to the Overall Value of the whole Nation in 2022:

Crop	National Production \$*	State Production \$*	Production % <sup>1</sup>	National % <sup>2</sup>
WHEAT	\$14,595,696	\$769,662	10.70%	5.27%
OATS	\$294,049	\$8,851	0.12%	3.01%
ALFALFA	\$12,978,496	\$913,071	12.70%	7.04%
SUGAR BEETS	\$1,742,709	\$347,372	4.83%	19.93%
CORN	\$91,729,711	\$2,713,463	37.74%	2.96%
SAFFLOWER	\$54,448	\$4,263	0.06%	7.83%
POTATOES	\$5,069,511	\$1,435,058	19.96%	28.31%
BARLEY	\$1,257,361	\$933,405	12.98%	74.24%
BEANS	\$1,401,433	\$53,748	0.75%	3.84%
PEAS	\$329,718	\$8,330	0.12%	2.53%
LENTILS	\$180,116	\$3,554	0.05%	1.97%
<b>All Crops<sup>3</sup></b>	<b>\$129,633,248</b>	<b>\$7,190,779</b>	<b>100.00%</b>	<b>5.55%</b>

<sup>1</sup>Shows the % of the crop income is based on the total value of all the crops in Idaho.

<sup>2</sup>Shows the % of the crop income of the crops grown in Idaho compared to the rest of the Nation.

<sup>3</sup>This row shows the total across all the crops in the table.

\*Crop Income is to the \$1,000 (\$100,000 = \$100,000,000)

## \$7.2 Billion dollars from agriculture In 2022.

- Which makes up about 5.55% of the total amount made in the Nation in Agriculture.

## Top 3 Crops (by Production Income) in 2022:

- 1. Corn: \$2.7 Billion dollars**
  - 37.74% of the total Crop Income in Idaho
- 2. Potatoes: \$1.4 Billion dollars**
  - 19.96% of the total Crop Income in Idaho
- 3. Barley: \$933.4 Million dollars**
  - 12.98% of the total Crop Income in Idaho

In 2022 Idaho was the #1 producer in the US of:

- **Potatoes = 12.0 Billion LBS**
  - Washington being the second most producing state with 4.5 Billion LBS (almost 3x less than Idaho)
- **Barley = 6.0 Billion LBS**
  - North Dakota being the second most producing state with 2.5 Billion LBS (almost half of Idaho)

In 2022 Idaho was the #2 producer in the US of:

- **Alfalfa = 6.8 Billion LBS**
  - Wisconsin being the #1 most producing state with 7.8 Billion LBS (About 1 Billion LBS more than Idaho)

The table below shows the rank of Idaho for each crop compared to the other U.S. States.

Crop	Idaho Rank	#1 State (Excl. Idaho) <sup>1</sup>	Production of State <sup>2*</sup>	Production of Idaho*	Difference <sup>3*</sup>
ALFALFA	2	Wisconsin	784,549	677,562	106,987
BARLEY	1	North Dakota	246,195	597,379	351,184
BEANS	12	North Dakota	442,859	12,356	430,503
CORN	23	Iowa	67,885,216	2,110,472	65,774,744
LENTILS	4	Montana	44,189	945	43,243
OATS	17	North Dakota	62,587	5,231	57,356
PEAS	8	Washington	79,602	5,018	74,584
POTATOES	1	Washington	453,917	1,195,882	741,965
SAFFLOWER	3	California	10,763	1,384	9,379
SUGAR BEETS	3	Minnesota	2,230,475	1,298,587	931,888
WHEAT	7	North Dakota	1,781,318	566,622	1,214,695

<sup>1</sup>Shows what the Top State in the US would be if Idaho was not part of the Ranking

<sup>2</sup>The Production of the State in the #1 State (Excl. Idaho) column

<sup>3</sup>This shows the difference between the Production of Idaho and the Production of State. (Red indicates a negative difference meaning that Idaho produces this many LBS less than the #1 State)

\*Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)



The table below shows the Crop Production Industries' Number of Establishments, Employment, and wages in the third quarter of 2022 for Idaho compared to the rest of U.S.

County	Quarterly Establishments	July Employment	August Employment	September Employment	Total Quarterly Wages	Average Weekly Wage
U.S. TOTAL	50,721	604,721	593,617	606,446	\$6,346,575,446	\$812
Idaho	1,017	7,894	8,382	9,681	\$94,185,193	\$837

- From the table, we learn that Idaho:
  - Has a higher agricultural wage than the U.S.
  - Averages ~1.4% of those employed in U.S. Crop Production
  - Averages ~1.5% of the total wages in U.S. Crop Production

- **The Average Purchasing Cost per Acre, in 2022, is:**
  - \$4,950 for Cropland
  - \$1,970 for Pastureland
  - \$3,700 for all acres
- **The Average Rent per Acre, in 2022, is:**
  - \$262 for Cropland (Irrigated)
  - \$65.50 for Cropland (Non-Irrigated)
  - \$12.50 for Pastureland

- **SE Idaho has 15.3 Million acres of land.**
  - (~28.9% of Idaho area)
  - 30.1% (4.6 Million acres) is for Agriculture.
- **Agriculture Land is split (2022):**
  - 34.0% (1.6 Million acres) for Crops, and
  - 66.0% (3.0 Million acres) for Pasture.
- **Top 5 Crops (by Production), SE Idaho (2022):**
  1. **Potatoes:** 7.6 Billion LBS
  2. **Alfalfa:** 3.2 Billion LBS
  3. **Sugar Beets:** 3.1 Billion LBS
  4. **Wheat:** 2.5 Billion LBS
  5. **Barley:** 1.9 Billion LBS

The Table below shows the Acres, Production, and Yield for each crop grown in SE Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Yield (LBS/Acre)
WHEAT	496,650	9,271	487,378	254,411	12.85%	44.90%	5,220
OATS	10,939	-	10,939	2,069	0.10%	39.55%	1,891
ALFALFA	405,073	43	405,030	324,024	16.36%	47.82%	8,000
SUGAR BEETS	42,768	1,966	40,802	310,096	15.66%	23.88%	76,000
CORN	40,692	-	40,692	142,617	7.20%	6.76%	35,048
SAFFLOWER	21,946	-	21,946	1,317	0.07%	95.13%	600
POTATOES	184,610	-	184,610	756,903	38.23%	63.29%	41,000
BARLEY	352,317	183	352,133	187,617	9.48%	31.41%	5,328
BEANS	1,868	-	1,868	448	0.02%	3.63%	2,400
PEAS	3,039	-	3,039	514	0.03%	10.23%	1,690
LENTILS	80	-	80	5	0.00%	0.48%	570
<b>All Crops<sup>4</sup></b>	<b>1,548,517</b>	<b>11,463</b>	<b>4,026,000</b>	<b>1,980,019</b>	<b>100.00%</b>	<b>30.60%</b>	<b>16,159</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)  
<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho  
<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho  
<sup>4</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

The Table below shows the Crop Income grown in SE Idaho compared to the Income value of the state of Idaho, in 2022:

Crop	SE Idaho Production \$*	Production % <sup>1</sup>	State % <sup>2</sup>
WHEAT	\$345,575	15.29%	44.90%
OATS	\$3,500	0.15%	39.55%
ALFALFA	\$436,649	19.32%	47.82%
SUGAR BEETS	\$82,951	3.67%	23.88%
CORN	\$183,364	8.11%	6.76%
SAFFLOWER	\$4,056	0.18%	95.13%
POTATOES	\$908,283	40.18%	63.29%
BARLEY	\$293,151	12.97%	31.41%
BEANS	\$1,950	0.09%	3.63%
PEAS	\$853	0.04%	10.23%
LENTILS	\$17	0.00%	0.48%
<b>All Crops<sup>3</sup></b>	<b>\$2,260,349</b>	<b>100.00%</b>	<b>31.43%</b>

<sup>1</sup>Shows the % of the crop income is based on the total value of all the crops in SE Idaho.

<sup>2</sup>Shows the % of the crop income of the crops grown in SE Idaho compared to the rest of Idaho.

<sup>3</sup>This row shows the total across all the crops in the table.

\*Crop Income is to the \$1,000 (\$100,000 = \$100,000,000)

- **SE Idaho made \$2.3 Billion dollars in agriculture (2022).**
  - Which makes up about 31.43% of the total amount made in Idaho in Agriculture.
  
- **SE Idaho Top 3 Crops (by Production Income, 2022) are:**
  1. **Potatoes: \$908.3 Million dollars**
    - 37.74% of the total Crop Income in Idaho
  2. **Alfalfa: \$436.6 Million dollars**
    - 19.96% of the total Crop Income in Idaho
  3. **Wheat: \$345.6 Million dollars**
    - 12.98% of the total Crop Income in Idaho

- The following slides will present an overview of the top 7 counties in SE Idaho by crop production (2022):
  - Brigham, Bonneville, Caribou, Fremont, Madison, and Power
- Respective sections for each county will detail how much land is dedicated to agriculture and how crop production compares to the state and the U.S.
- Following the individual county sections will be a summary section covering SE Idaho, including information on how its agricultural production compares with the rest of the state as well as top counties in the country for selected crops.

- **Bingham County, Idaho has 1.3 Million acres of land. (~8.8% of the SE Region)**
  - 35.7% (477,800 acres) is for Agriculture.
- **Agricultural Land is split (2022):**
  - 51.0% (243,700 acres) for Crops, and
  - 49.0% (234,000 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$266.00 for Cropland (Irrigated)
  - \$29.00 for Cropland (Non-Irrigated)
  - \$24.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Bingham County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Bingham	14.15	19.88

Since Bingham County has a very high Location Quotient, we can say that in 2022, Crop Production made up a huge share of Bingham County’s employment relative to the rest of the State and the Nation.

The Table below shows the Acres, Production, and Yield for each crop grown in Bingham County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre)
Wheat	104,933	1,903	103,030	53,782	11.99%	9.49%	21.14%	5,220
Oats	701	-	701	133	0.03%	2.54%	6.41%	1,891
Alfalfa	44,784	-	44,784	35,827	7.99%	5.29%	11.06%	8,000
Sugar Beets	16,888	678	16,210	123,195	27.47%	9.49%	39.73%	76,000
Corn	10,715	-	10,715	37,552	8.37%	1.78%	26.33%	35,048
Potatoes	45,709	-	45,709	187,407	41.78%	15.67%	24.76%	41,000
Barley	19,891	-	19,891	10,598	2.36%	1.77%	5.65%	5,328
Beans	129	-	129	31	0.01%	0.25%	6.89%	2,400
<b>All Crops<sup>5</sup></b>	<b>243,749</b>	<b>2,581</b>	<b>241,169</b>	<b>448,524</b>	<b>100.00%</b>	<b>6.93%</b>	<b>22.65%</b>	<b>21,861</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)  
<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho  
<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho  
<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho  
<sup>5</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

- **Overall Crop Production: 4.5 Billion LBS**
- **Top 3 Crops (by Production) in Bingham County (2022):**
  1. **Potatoes: 1.9 Billion LBS**
  2. **Sugar Beets: 1.2 Billion LBS**
  3. **Wheat: 537.8 Million LBS**
- **Bingham County has about 149,000 Cattle (2022):**
  - Beef Cows = 41,500
  - Milk Cows = 7,500
  - Calves = 100,000

- **Bonneville County, Idaho has 1.2 Million acres of land. (~7.8% of the SE Region)**
  - 30.6% (365,000 acres) is for Agriculture.
- **Agricultural Land is split (2022):**
  - 50.7% (185,000 acres) for Crops, and
  - 49.3% (180,000 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$230.00 for Cropland (Irrigated)
  - *None Given* for Cropland (Non-Irrigated)
  - \$18.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Bonneville County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Bingham	1.23	2.06

Since Bonneville County has a Similar Location Quotient, we can say that in 2022, Crop Production made up a similar share of Bonneville County’s employment relative the rest of the Nation, but it has a smaller share relative to the state.

The Table below shows the Acres, Production, and Yield for each crop grown in Bonneville County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre)
Wheat	53,424	25	53,399	27,874	13.63%	4.92%	10.96%	5,220
Oats	868	-	868	164	0.08%	3.14%	7.94%	1,891
Alfalfa	33,183	-	33,183	26,546	12.98%	3.92%	8.19%	8,000
Corn	4,035	-	4,035	14,140	6.92%	0.67%	9.91%	35,048
Potatoes	24,087	-	24,087	98,758	48.31%	8.26%	13.05%	41,000
Barley	69,285	-	69,285	36,915	18.06%	6.18%	19.68%	5,328
Beans	277	-	277	47	0.02%	0.93%	9.10%	1,690
<b>All Crops<sup>5</sup></b>	<b>185,159</b>	<b>25</b>	<b>241,169</b>	<b>204,444</b>	<b>100.00%</b>	<b>3.16%</b>	<b>10.33%</b>	<b>14,025</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)

<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho

<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho

<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho

<sup>5</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

- **Overall Crop Production: 2.0 Billion LBS**
- **Top 3 Crops (by Production) in Bonneville County (2022):**
  1. Potatoes: 987.6 Million LBS
  2. Barley: 369.2 Million LBS
  3. Wheat: 278.7 Million LBS
- **Bonneville County has about 76,700 Cattle (2022):**
  - Beef Cows = 15,200
  - Milk Cows = 500
  - Calves = 61,000



- **Caribou County, Idaho has 1.1 Million acres of land. (~7.4% of the SE Region)**
  - 39.2% (442,500 acres) is for Agriculture.
- **Agricultural Land is split (2022):**
  - 26.9% (119,000 acres) for Crops, and
  - 73.1% (323,600 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$155.00 for Cropland (Irrigated)
  - \$44.00 for Cropland (Non-Irrigated)
  - \$12.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Caribou County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Caribou	7.77	4.32

Since Caribou County has a high Location Quotient, we can say that in 2022, Crop Production made up a large share of Caribou County’s employment relative to the rest of the State and Nation.

- The Table below shows the Acres, Production, and Yield for each crop grown in Caribou County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre)
Wheat	38,407	962	37,445	19,546	21.39%	3.45%	7.68%	5,220
Oats	2,739	-	2,739	518	0.57%	9.90%	25.04%	1,891
Alfalfa	14,862	-	14,862	11,889	13.01%	1.75%	3.67%	8,000
Corn	202	-	202	709	0.78%	0.03%	0.50%	35,048
Safflower	978	-	978	59	0.06%	4.24%	4.46%	600
Potatoes	7,299	-	7,299	29,927	32.75%	2.50%	3.95%	41,000
Barley	53,703	-	53,703	28,613	31.31%	4.79%	15.25%	5,328
Peas	690	-	690	117	0.13%	2.32%	22.70%	1,690
All Crops <sup>5</sup>	118,880	962	117,918	91,378	100.00%	1.41%	4.62%	12,347

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)

<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho

<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho

<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho

<sup>5</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

- Overall Crop Production: 913.8 Million LBS**
- Top 3 Crops (by Production) in Caribou County (2022):**
  - Potatoes: 299.3 Million LBS**
  - Barley: 286.1 Million LBS**
  - Wheat: 195.5 Million LBS**
- Caribou County has about 41,300 Cattle (2022):**
  - Beef Cows = 13,700
  - Milk Cows = 1,100
  - Calves = 26,500

- **Fremont County, Idaho has 1.2 Million acres of land. (~7.8% of the SE Region)**
  - 39.2% (253,700 acres) is for Agriculture.
- **Agricultural Land is split (2022):**
  - 59.6% (151,100 acres) for Crops, and
  - 40.4% (102,600 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$180.00 for Cropland (Irrigated)
  - \$56.00 for Cropland (Non-Irrigated)
  - \$28.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Fremont County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Fremont	14.48	18.59

Since Fremont County has a very high Location Quotient, we can say that in 2022, Crop Production made up a huge share of Fremont County’s employment relative to the rest of the State and Nation.

- The Table below shows the Acres, Production, and Yield for each crop grown in Fremont County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre)
Wheat	36,017	706	35,311	18,432	10.92%	3.25%	7.25%	5,220
Oats	169	-	169	32	0.02%	0.61%	1.54%	1,891
Alfalfa	22,964	-	22,964	18,371	10.89%	2.71%	5.67%	8,000
Corn	578	-	578	2,026	1.20%	0.10%	1.42%	35,048
Potatoes	22,800	-	22,800	93,481	55.40%	7.82%	12.35%	41,000
Barley	68,459	183	68,276	36,377	21.56%	6.09%	19.39%	5,328
Peas	139	-	139	23	0.01%	0.47%	4.57%	1,690
<b>All Crops<sup>5</sup></b>	<b>151,126</b>	<b>889</b>	<b>150,236</b>	<b>168,743</b>	<b>100.00%</b>	<b>2.61%</b>	<b>8.52%</b>	<b>14,025</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)

<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho

<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho

<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho

<sup>5</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

- Overall Crop Production: 1.7 Billion LBS**
- Top 3 Crops (by Production) in Fremont County (2022):**
  - Potatoes:** 934.8 Million LBS
  - Barley:** 363.8 Million LBS
  - Wheat:** 184.3 Million LBS
- Fremont County has about 24,100 Cattle (2022):**
  - Beef Cows = 8,700
  - Milk Cows = 900
  - Calves = 14,500

- **Jefferson County, Idaho has 700,000 acres of land. (~4.6% of the SE Region)**
  - 36.0% (251,800 acres) is for Agriculture.
- **Agricultural Land is split:**
  - 70.9% (178,400 acres) for Crops, and
  - 29.1% (73,400 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$162.00 for Cropland (Irrigated)
  - \$52.00 for Cropland (Non-Irrigated)
  - \$20.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Jefferson County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Jefferson	7.36	12.31

Since Jefferson County has a high Location Quotient, we can say that in 2022, Crop Production made up a large share of Jefferson County’s employment relative to the rest of the State and Nation.

- The Table below shows the Acres, Production, and Yield for each crop grown in Jefferson County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre)
Wheat	26,650	9	26,640	13,906	7.93%	2.45%	5.47%	5,220
Oats	475	-	475	90	0.05%	1.72%	4.34%	1,891
Alfalfa	90,344	-	90,344	72,275	41.21%	10.67%	22.31%	8,000
Corn	5,890	-	5,890	20,643	11.77%	0.98%	14.47%	35,048
Potatoes	10,984	-	10,984	45,034	25.68%	3.77%	5.95%	41,000
Barley	43,893	-	43,893	23,386	13.34%	3.91%	12.47%	5,328
Peas	198	-	198	33	0.02%	0.67%	6.50%	1,690
<b>All Crops<sup>5</sup></b>	<b>178,434</b>	<b>9</b>	<b>178,424</b>	<b>175,367</b>	<b>100.00%</b>	<b>2.71%</b>	<b>8.86%</b>	<b>14,025</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)  
<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho  
<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho  
<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho  
<sup>5</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

- Overall Crop Production: 1.8 Billion LBS**
- Top 3 Crops (by Production) in Jefferson County (2022):**
  - Alfalfa:** 722.8 Million LBS
  - Potatoes:** 450.3 Million LBS
  - Barley:** 233.9 Million LBS
- Jefferson County has about 120,100 Cattle (2022):**
  - Beef Cows = 17,300
  - Milk Cows = 13,800
  - Calves = 89,000

- **Madison County, Idaho has 300,300 Thousand acres of land. (~2.0% of the SE Region)**
  - 54.8% (164,500 acres) is for Agriculture.
- **Agricultural Land is split (2022):**
  - 72.4% (119,100 acres) for Crops, and
  - 27.6% (45,500 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$157.00 for Cropland (Irrigated)
  - \$45.00 for Cropland (Non-Irrigated)
  - \$44.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Madison County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Madison	3.75	5.90

Since Madison County has a high Location Quotient, we can say that in 2022, Crop Production made up a large share of Madison County's employment relative to the rest of the Nation, and a similar share relative to the State as a whole.

The Table below shows the Acres, Production, and Yield for each crop grown in Madison County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre)
Wheat	38,315	44	38,271	19,978	12.83%	3.53%	7.85%	5,220
Oats	113	-	113	21	0.01%	0.41%	1.03%	1,891
Alfalfa	15,596	-	15,596	12,476	8.01%	1.84%	3.85%	8,000
Corn	612	-	612	2,146	1.38%	0.10%	1.50%	35,048
Potatoes	24,342	-	24,342	99,804	64.10%	8.35%	13.19%	41,000
Barley	39,803	-	39,803	21,207	13.62%	3.55%	11.30%	5,328
Beans	185	-	185	44	0.03%	0.36%	9.91%	2,400
Peas	109	-	109	18	0.01%	0.37%	3.58%	1,690
<b>All Crops<sup>5</sup></b>	<b>119,075</b>	<b>44</b>	<b>119,031</b>	<b>155,695</b>	<b>100.00%</b>	<b>2.41%</b>	<b>7.86%</b>	<b>12,572</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)  
<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho  
<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho  
<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho  
<sup>5</sup>This row shows the total across all the crops in the table. (The total yield is an average yield for all the crops)

- **Overall Crop Production: 1.6 Billion LBS**
- **Top 3 Crops by Production in Madison County (2022):**
  1. **Potatoes:** 998.0 Million LBS
  2. **Barley:** 212.1 Million LBS
  3. **Wheat:** 199.8 Million LBS
- **Madison County has about 21,200 Cattle (2022):**
  - Beef Cows = 6,500
  - Milk Cows = 200
  - Calves = 14,500



- **Power County, Idaho has 898,500 acres of land. (~5.9% of the SE Region)**
  - 48.1% (431,800 acres) is for Agriculture.
- **Agricultural Land is split:**
  - 48.7% (210,200 acres) for Crops, and
  - 51.3% (221,600 acres) for Pasture.
- **Average Rent per Acre (2022) is:**
  - \$255.00 for Cropland (Irrigated)
  - \$31.00 for Cropland (Non-Irrigated)
  - \$5.00 for Pastureland

The table below shows the Location Quotient of Crop Production in Idaho and Power County compared to all the United States for the third quarter of 2022.

County	September Employment Location Quotient	Total Quarterly Wages Location Quotient
U.S. TOTAL	1	1
Idaho	2.89	3.36
Jefferson	52.79	46.14

Since Power County has an extremely large Location Quotient, we can say that in 2022, Crop Production made up a tremendous share of Power County's employment relative to the rest of the State and Nation.

The Table below shows the Acres, Production, and Yield for each crop grown in Power County, Idaho in 2022:

Crop	Acres Planted	Failed Acres	Acres Harvested	Production <sup>1</sup>	Production % <sup>2</sup>	State Production % <sup>3</sup>	Region Production % <sup>4</sup>	Yield (LBS/Acre )
Wheat	107,638	4,989	102,648	53,582	12.37%	9.46%	21.06%	5,220
Oats	189	-	189	36	0.01%	0.68%	1.73%	1,891
Alfalfa	15,152	-	15,152	12,122	2.80%	1.79%	3.74%	8,000
Sugar Beets	25,220	1,288	23,932	181,886	41.99%	14.01%	58.65%	76,000
Corn	7,759	-	7,759	27,195	6.28%	1.29%	19.07%	35,048
Safflower	7,630	-	7,630	458	0.11%	33.08%	34.77%	600
Potatoes	37,512	-	37,512	153,798	35.51%	12.86%	20.32%	41,000
Barley	6,733	-	6,733	3,587	0.83%	0.60%	1.91%	5,328
Beans	1,250	-	1,250	300	0.07%	2.43%	66.96%	2,400
Peas	1,050	-	1,050	178	0.04%	3.54%	34.56%	1,690
Lentils	80	-	80	5	0.00%	0.48%	100.00%	570
<b>All Crops<sup>5</sup></b>	<b>210,215</b>	<b>6,277</b>	<b>203,937</b>	<b>433,146</b>	<b>100.00%</b>	<b>6.69%</b>	<b>21.88%</b>	<b>16,159</b>

<sup>1</sup>Production is to the 10,000 LBS (100,000 LBS = 1,000,000,000 LBS)  
<sup>2</sup>Shows the % amount the crop produces based on the total production of SE Idaho  
<sup>3</sup>Shows the % amount that the region produces of that crop compared to the entire state of Idaho  
<sup>4</sup>Shows the % amount that the county produces of that crop compared to the entire SE region of Idaho

- **Overall Crop Production: 4.3 Billion LBS**
- **Top 3 Crops (by Production) in Power County (2022):**
  1. **Sugar Beets: 1.8 Billion LBS**
  2. **Potatoes: 1.5 Billion LBS**
  3. **Wheat: 535.8 Million LBS**
- **Power County has about 29,000 Cattle (2022):**
  - Beef Cows = 0
  - Milk Cows = 0
  - Calves = 29,000

- **The Table on the right shows:**
  - The top producing county in SE Idaho;
  - Its rank relative to the nation;
  - How it compares to the top producing county outside SE Idaho.
- **In 2022, Bingham and Bonneville were the #1 producers of Potatoes (1.9 Billion LBS) and Barley (769.1 Million LBS) respectively.**
  - The highest production for potatoes, outside of SE Idaho, was in Grant County, Washington (1.7 Billion LBS), which is about 200 Million LBS less than Bingham County, Idaho.
  - The highest production for Barley, outside of SE Idaho, was in Minidoka County, Idaho (561.1 Million LBS), which is about 200 Million LBS less than Bonneville County, Idaho.

Crops	National Rank <sup>1</sup>	#1 County in SE Idaho	Production of SE Idaho County*	#1 County outside of SE Idaho <sup>2</sup>	#1 State <sup>3</sup>	Production of County outside SE Idaho*	Difference <sup>4</sup> **
Wheat	33	Bingham	53,658	Whitman	Washington	198,845	145,186
Oats	191	Caribou	518	Merced	California	20,584	20,066
Alfalfa	4	Jefferson	72,637	Maricopa	Arizona	134,245	61,608
Sugar Beets	14	Power	182,364	West Polk	Minnesota	504,586	322,222
Corn	1035	Bingham	75,105	Iroquois	Illinois	1,773,834	1,698,730
Safflower	6	Power	458	Kings	California	7,041	6,583
Potatoes	1	Bingham	187,407	Grant	Washington	171,901	15,505
Barley	1	Bonneville	76,906	Minidoka	Idaho	56,106	20,800
Beans	375	Power	145	Huron	Michigan	83,662	83,517
Peas	179	Power	178	Columbia	Washington	17,850	17,672
Lentils	59	Power	5	Sheridan	Montana	8,741	8,736

<sup>2</sup>Shows the highest production county for the crop outside of SE Idaho

<sup>3</sup>Shows the State of the #1 Production County outside SE Idaho

<sup>4</sup>This shows the difference between the Production of the County in SE Idaho and the Production of the County outside SE Idaho. (Red indicates a negative difference – that is, the number is meant to be read as indicating how many more LBS are produced in the top national county relative to the SE Idaho county)

\*Production is to the 10,000 LBS (100,000 = 1,000,000,000 LBS)

- The top 3 counties with the most income from crop production (SE Idaho, 2022) are:
  1. **Bingham:** \$444.4 Million (19.66% of the total crop income in SE Idaho)
  2. **Power:** \$366.0 Million (16.19% of the total crop income in SE Idaho)
  3. **Bonneville:** \$268.4 Million (11.87% of the total crop income in SE Idaho)

The Table below shows the Crop Income for each individual county in SE Idaho relative to the SE Idaho region as a whole (2022)

Crop	Bannock	Bear Lake	Bingham	Bonneville	Butte	Caribou	Clark	Custer <sup>1</sup>	Franklin	Fremont	Jefferson	Madison	Oneida	Power	Teton	Total \$
ALFALFA	\$17,893	\$21,733	\$48,280	\$35,773	\$36,055	\$16,022	\$9,516	\$25,614	\$29,342	\$24,756	\$97,397	\$16,813	\$27,878	\$16,335	\$13,241	436,649
BARLEY	\$2,621	\$2,841	\$16,559	\$57,680	\$4,519	\$44,708	\$907	\$2,116	\$3,186	\$56,840	\$36,541	\$33,136	\$424	\$5,605	\$25,469	293,151
OATS	\$70	\$414	\$224	\$278	\$255	\$877	\$24	\$271	\$243	\$54	\$152	\$36	\$460	\$60	\$82	3,500
WHEAT	\$12,107	\$10,146	\$73,054	\$37,863	\$3,795	\$26,550	\$3,036	\$1,158	\$9,864	\$25,037	\$18,889	\$27,136	\$19,821	\$72,783	\$4,334	345,575
CORN	\$87	N/A	\$48,282	\$18,180	\$4,062	\$912	\$11,703	\$475	\$22,151	\$2,605	\$26,540	\$2,759	\$10,641	\$34,965	N/A	183,364
POTATOES	\$13,188	N/A	\$224,888	\$118,509	\$8,469	\$35,912	N/A	\$2,602	\$5,743	\$112,177	\$54,040	\$119,765	\$7,319	\$184,557	\$21,111	908,283
PEAS	N/A	N/A	N/A	\$78	\$66	\$193	N/A	N/A	\$96	\$39	\$55	\$31	N/A	\$295	N/A	853
SAFFLOWER	\$517	\$30	N/A	N/A	N/A	\$181	N/A	N/A	\$1,023	N/A	N/A	N/A	\$895	\$1,410	N/A	4,056
BEANS	N/A	N/A	\$134	N/A	N/A	N/A	N/A	N/A	\$317	N/A	N/A	\$193	N/A	\$1,306	N/A	1,950
SUGAR BEETS	\$1,342	N/A	\$32,955	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$48,654	N/A	82,951
LENTILS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$17	N/A	17
All Crops <sup>2</sup>	\$47,825	\$35,165	\$444,376	\$268,360	\$57,222	\$125,356	\$25,186	\$32,237	\$71,965	\$221,508	\$233,616	\$199,869	\$67,439	\$365,988	\$64,238	2,260,349
Region % <sup>3</sup>	2.12%	1.56%	19.66%	11.87%	2.53%	5.55%	1.11%	1.43%	3.18%	9.80%	10.34%	8.84%	2.98%	16.19%	2.84%	100.00%

<sup>1</sup>The data is the combination of both Lemhi and Custer county in Idaho

<sup>2</sup>This row shows the total across all the crops in the table.

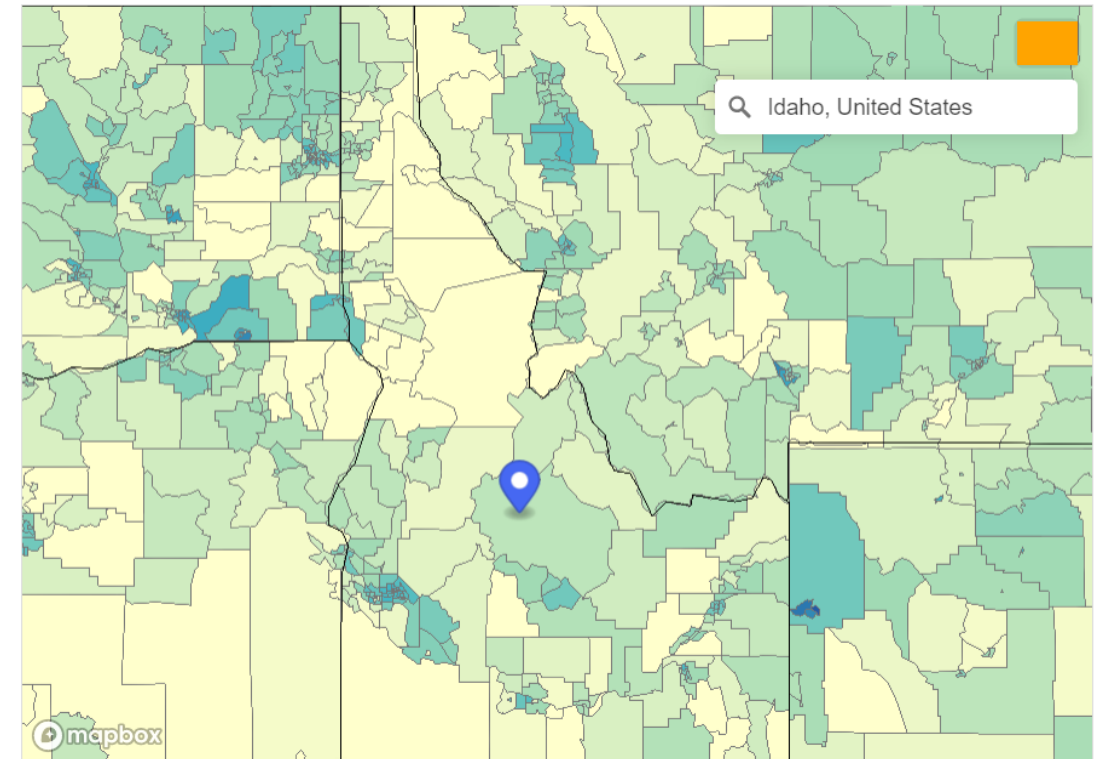
<sup>3</sup>This row shows the % amount that the county produces of that crop compared to the entire SE region of Idaho.



# Information Technology

- 30% of households with income less than \$20,000 have no internet access
- 17% of Native American/Alaska Natives do not internet access, compared to 3-6% Asian, mixed race, Hispanic/Latino, or White\*
- Idaho is ranked 45<sup>th</sup> among states based on internet coverage, speed and availability

**Idaho Internet availability map**



Data from FCC Broadband Deployment

**Number of fixed residential broadband providers**



\*No data available for Black

FCC definition of broadband internet is 25Mbps, but BroadbandNOW is 100Mbps

<https://www.compareinternet.com/id/>, <https://broadbandnow.com/Idaho>, and <https://www.highspeedinternet.com/id>

- Internet speed varies by location and provider

### Internet Speed in Top Idaho Cities

City	Avg. Download Speed (Mbps)	# of Providers
Nampa	174.4	18
Boise	131.6	26
Meridian	100.5	23
Idaho Falls	85.8	18
Pocatello	88.7	19

### Fastest Major Providers in Idaho

Provider	Avg. Download Speed (Mbps)
Sparklight (formerly Cable One)	137.3
CenturyLink	100.4
Rise Broadband	28.4

### 100 Mbps Coverage Availability by County

Top ID Counties	%
Ada, Bonneville, & Blaine	90-97%
Bannock, Kootenai, Nez Perce, Canyon, Twin Falls, Oneida, & Payette	80-89%
Bottom ID Counties	
Camas, Benewah, Shoshone, Franklin, & Bear Lake	10-19%
Idaho, Caribou, Lewis, & Clark	0-9%

## K-12

- Idaho Tech Council’s Computing Alliance
  - Mission: transform Idaho’s future by growing the quantity and quality of technology professionals
- Cyber summer camps through CSI, CEI and LCSC

## Higher Education

- Institute of Higher Learning, by Cybersecurity/IT Degree Offerings

College/ University	Certificate or AAS	Bachelor’s	Master’s
NIC, CEI, CSI, CWI	✓		
Lewis-Clark State College	✓	✓	
Idaho State University	✓	✓	
BYU-Idaho	✓	✓	
University of Idaho		✓	✓
Boise State University	✓	✓	✓



- Student Enrollment: >60
- Cybersecurity Associate of Applied Science graduates: 15
- Placement:
  - Industry = 14
  - Government = 5
  - Academia = 1
  - Advanced Degrees = 6 (running average of about 85% positive placement)
- Median Idaho wage over \$87,000 (according to Burning Glass Institute, 2021)

- "Computer user support specialist" and "Software developer & software quality assurance analyst/tester" have most employment opportunities
- Bachelor's degree is required for most IT / Cybersecurity jobs, with half of statewide job openings located in Southwest Idaho region
  - Projections of the technology employment sector in Idaho from 2020 to 2030 are listed in the next slide

Typical Education Requirement	Title	Statewide Average Annual Wage	Statewide Projected Growth Rate	Statewide Total Annual Openings	SE* Total Annual Openings	SW* Total Annual Openings
<b>Some college, no degree</b>	Computer User Support Specialists	\$49,924	12.3%	491	36	247
<b>Associate's degree</b>	Computer Network Support Specialists	\$55,825	11.2%	67	5	35
<b>Bachelor's degree</b>	Computer Network Architects	NR	3.7%	68	5	38
	Web Developers and Digital Interface Designers	\$52,031	13.8%	112	9	57
	Operations Research Analysts	\$68,118	7.7%	61	4	33
	Computer Programmers	\$72,226	11.1%	78	5	41
	Computer Occupations, All Other	\$74,166	2.3%	121	10	64
	Network and Computer Systems Administrators	\$79,956	12.5%	186	15	100
	Database Administrators and Architects	\$83,332	10.4%	64	5	35
	Software Developers and Software Quality Assurance Analysts and Testers	\$96,024	15.9%	559	34	308
	Information Security Analysts	\$97,883	12.2%	57	4	32
	Computer Systems Analysts	\$98,446	11.4%	212	16	120
	Computer Hardware Engineers	\$102,186	20.3%	48	3	38
Computer and Information Systems Managers	\$109,731	13.3%	214	17	117	
<b>Master's degree</b>	Computer and Information Research Scientists	\$120,183	14.3%	26	NR	14

\*SE = Southeast Idaho; \*SW = Southwest Idaho; NR = not reported

- Statewide employment possibilities for IT/Cybersecurity graduates vary by region

Industry	Boise	SE Region
<b>Education</b>	Boise State University	BYU-Idaho
<b>Hospitals</b>	St. Luke's	Bingham Memorial, EIRMC Women and Infants, & Madison Memorial
<b>Other</b>	Boise Cascade, Clearwater Analytics, Cradlepoint, HP, Idaho Power Company, Resource Data, Synoptek, Velox, & remote	Eagle Eye Produce, Idahoan Foods, Melaleuca, Paradyme Management, Peraton, Wipfli, & remote

## Idaho

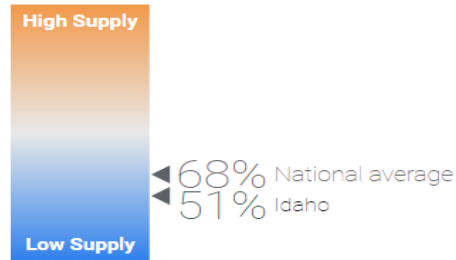
### TOTAL CYBERSECURITY JOB OPENINGS ⓘ

7,026

### TOTAL EMPLOYED CYBERSECURITY WORKFORCE ⓘ

4,919

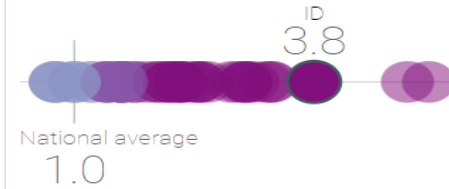
### SUPPLY/DEMAND RATIO ⓘ



### GEOGRAPHIC CONCENTRATION ⓘ

Very High

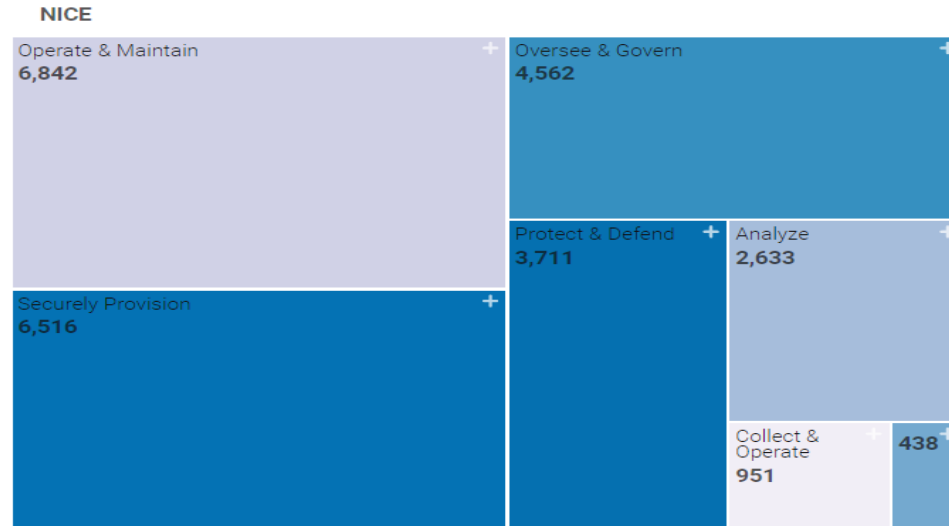
### LOCATION QUOTIENT



### TOP CYBERSECURITY JOB TITLES ⓘ

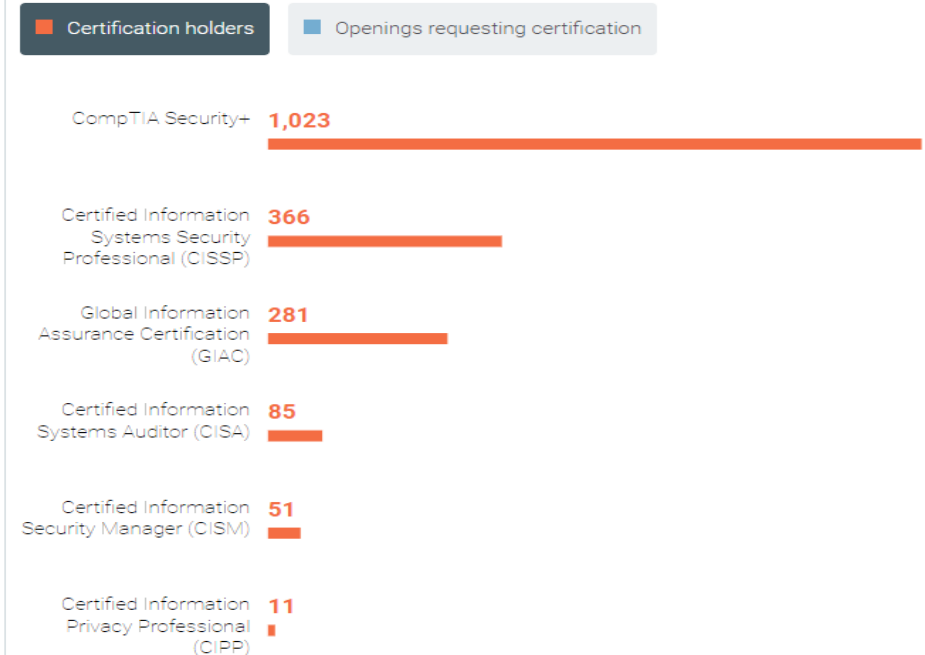
- Cybersecurity Analyst
- Software Developer
- Systems Engineer
- Penetration & Vulnerability Tester
- Network Engineer
- Cybersecurity Manager
- Cybersecurity Consultant
- Senior Software Developer
- Cloud Architect

### JOB OPENINGS BY NICE CYBERSECURITY WORKFORCE FRAMEWORK CATEGORY ⓘ



Notes: The NICE Workforce Categories are not mutually exclusive- one job could perform multiple roles within the framework. The data shown here are not intended to be aggregated.

### CERTIFICATION HOLDERS / OPENINGS REQUESTING CERTIFICATION ⓘ



- Increasing rate of cyber-attacks drives employment demand for IT/Cybersecurity fields
  - Data breach impacting 1,500 people in 12 states - Bannock County courthouse (2020)
  - Ransomware: Ada, Madison, and Twin Falls Counties (2018-2021)
  - Malware prevents car inspections (2021)

- Cybersecurity Awareness
  - Protect Idaho citizens' privacy by safeguarding Idaho's information, data, systems and infrastructure while establishing strong cybersecurity leadership, awareness and training, best practices, and partnerships
  - Task Force created by Governor Little
- CISA
  - Provide risk and risk mitigation advice, outreach, assessments and inspections, trainings, support
- Idaho National Laboratory (INL)
  - Collaborate with government, academia, and private sector organizations to seek and validate solutions to improve the cybersecurity workforce development pipeline and address the needs of the nation's cyber workforce
- Idaho Women in Technology
- Women Innovators
- Idaho Technology Council
- America's SBDC Idaho
  - Staff training and attack planning
- ISACA Boise chapter

- \$1,675/year is the median small business cyber liability insurance cost
- Cyber liability coverage options include:
  - Costs due to data breach/extortion threat, phishing attack, cyber attack, or covered network outage
  - Costs to defend against privacy lawsuits
  - State/federal regulator fines
  - Breach response resources if a cyber incident occurs, including notifying customers
  - Forensic investigations and crisis management expenses
  - Business interruptions





## Maxwell Erickson

<https://www.linkedin.com/in/maxwellferickson/>



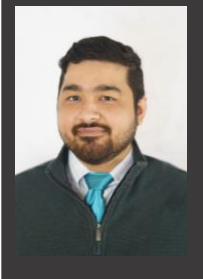
## Andrew Flood

<https://www.linkedin.com/in/andrewsflood/>



## Laurie Janssen Hale

<https://www.linkedin.com/in/laurie-janssen/>



## Brandon Alcocer

<https://www.linkedin.com/in/brandon-alcocer/>