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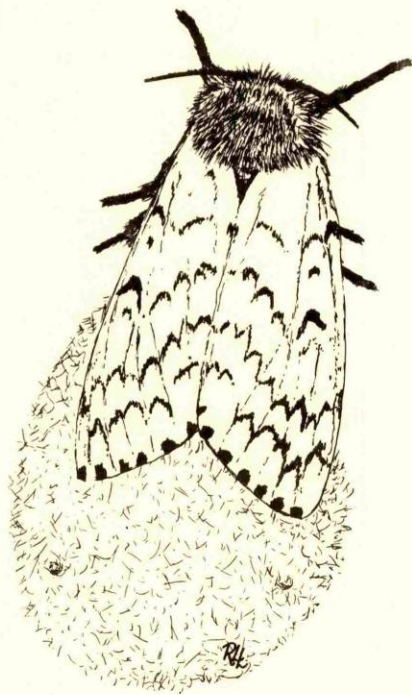
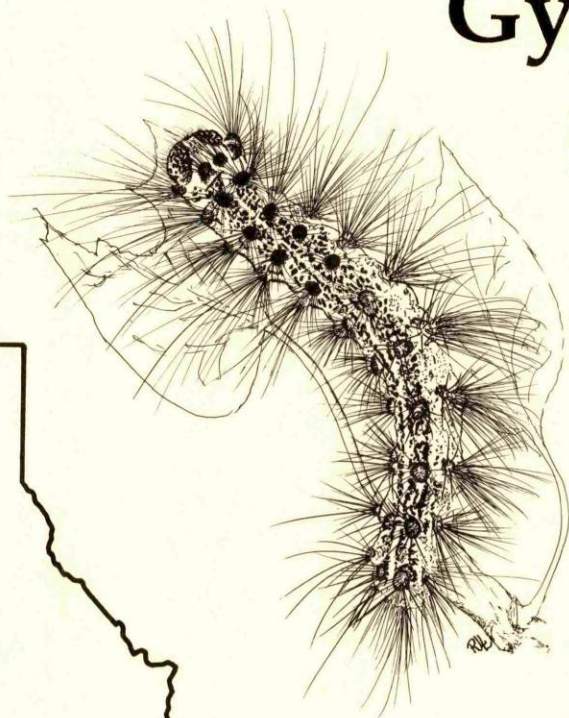


# Gypsy Moth Report 2001

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**STATE OF IDAHO**  
**GYPSY MOTH SURVEY TRAPPING PROGRAM**  
**SUMMARY REPORT**

**2001**



by  
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**Idaho Department of Lands**  
**3780 Industrial Avenue South**  
**Coeur d'Alene, Idaho**

**Report No. IDL 01-2**  
**November 2001**

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## ABSTRACT

In 2001, two gypsy moths were caught in detection traps in Idaho. One was caught in north Idaho, in a trap west of Blanchard in Bonner county, near the Washington state border. The other moth was caught in southeast Idaho, in a trap near Thornton, in Madison county (Figure 1). No delimitation trapping was done in 2001.

## INTRODUCTION

Surveys to detect the introduction of the gypsy moth, *Lymantria dispar* L., have been conducted in Idaho each year since 1974 (Table 1). The first gypsy moth was discovered in 1986 at Sandpoint in Bonner County. The following year numerous additional moths were caught in Sandpoint and Coeur d'Alene. Ground treatments were done in 1988 and aggressive aerial spray eradication programs followed in 1989 and 1990 using a naturally occurring bacterium, *Bacillus thuringiensis* var. *kurstaki* (B.t.k.) as the pesticide (Tisdale and Livingston 1990, Livingston 1990). No gypsy moths have been caught in the treated areas since 1989. Gypsy moths have been caught in various areas throughout the state in the annual detection surveys every year from 1986 through 1995. No gypsy moths were caught in 1996 or 1997 (Mason and Livingston 1991, 1992, 1993, 1994, 1995, 1996, 1997). Seven gypsy moths were caught in 1998, 5 at one site. The other 2 were at widely separated locations of the state (Mason and Livingston 1998). No gypsy moths were caught in 1999 or 2000 (Mason and Livingston 1999 & 2000).

Cooperating agencies, with accompanying responsibilities in the Idaho gypsy moth program, include the following:

- Idaho Department of Lands - Overall program coordination and trapping in northern Idaho, except in Forest Service campgrounds.
- Idaho Department of Agriculture - Trapping in southwestern Idaho and submission of data to the National Agricultural Pest Information System (NAPIS) data library.
- USDA, APHIS - Provides cost share funding, traps, baits, and technical expertise.
- USDA Forest Service, Region 4 - Trapping in southeastern Idaho.
- USDA Forest Service, Region 1 - Trapping in Forest Service campgrounds in northern Idaho.
- Idaho Department of Transportation - Provides monthly reports of vehicle registrations in Idaho from states that are generally infested with gypsy moths.

A summary of the 2001 survey is shown in Table 2.

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Table 1 - Gypsy moth trapping history in Idaho.

	NUMBER OF TRAPS SET				NUMBER OF MOTHS CAUGHT				NO. POS. TRAPS
YEAR	DET. <sup>2</sup>	DEL. <sup>3</sup>	MASS <sup>4</sup>	TOTAL	DET. <sup>2</sup>	DEL. <sup>3</sup>	MASS <sup>4</sup>	TOTAL	
1974 <sup>1</sup>									
1975	45			45					
1976	254			254					
1977	232			232					
1978	248			248					
1979 <sup>1</sup>									
1980	121			121					
1981	95			95					
1982	35			35					
1983 <sup>1</sup>									
1984 <sup>1</sup>									
1985 <sup>1</sup>									
1986	208			208	1			1	1
1987	420			420	35			35	9
1988	1558	1457		3015	8	414		422	210
1989	2248		7303	9551	17		51	68	54
1990	5640	358	3268	9266	4	2		6	3
1991 <sup>5</sup>	4641	121		4762	4			4	4
1992	4823	130		4953	2	1		3	3
1993	4314	115		4429	2			2	1
1994	4239	96		4335	1	2		3	3
1995	4522	136		4658	1			1	1
1996	4290	117		4407					
1997	5085	20		5105					
1998	4904			4904	7			7	3
1999	4837	155	90	5082					
2000	5398	36		5434					
2001	5346			5346	2			2	2

<sup>1</sup>Trapping did occur in Idaho in these years, and no moths were found. However, records are not complete as to the exact number of traps placed.

<sup>2</sup>Detection.

<sup>3</sup>Delimitation.

<sup>4</sup>Mass trapping for control at approximately 9 traps/acre.

<sup>5</sup>Number of traps set in 1991 revised after receipt of final data.

Table 2 - Number of gypsy moth traps placed, by agency, in Idaho in 2001.

AGENCY	DETECTION TRAPS	DELIMITING TRAPS	MASS TRAPS	TOTAL TRAPS
Idaho Dept. of Lands	2995	0	0	2995
Idaho Dept. of Agriculture	1657	0	0	1657
USFS - Region 4	594	0	0	594
USFS - Region 1	100	0	0	100
TOTALS	5346	0	0	5346

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## 2001 SURVEY PROGRAM

Detection Trapping - In 2001, the cooperating agencies in the Idaho gypsy moth detection program placed 5346 detection traps throughout the state (Table 2). Trapping costs for the 2001 gypsy moth survey program in Idaho are shown in Table 3. Table 4 shows trap placement by county. Pheromone-baited traps were placed on a grid basis at a density of four traps per square mile. Traps were placed throughout the state in cities, towns, surrounding urban areas, and rural communities in accordance with a predetermined rotation schedule (see appendix A). Cities and communities where 20 or more move-ins occur are trapped irrespective of their place in the schedule. A move-in is defined as an individual or family moving to Idaho from a state that is generally infested with gypsy moths. This information is derived from vehicle registration information supplied on a monthly basis by the Idaho Department of Transportation. Most infestations are initiated when an egg mass or other life stage of the gypsy moth arrives on an outdoor household article brought by someone moving into the area. Between May 2000 and April 2001, there were 4765 move-ins to the state, a 6.4% decrease over the previous year. Campgrounds, tourist attractions, and other high-risk locations were also trapped.

Two male gypsy moths were caught in detection traps in 2001. One trap was located west of Blanchard in Bonner county. A second moth was caught near Thornton in Madison county. We were unable to attribute either moth to a specific move-in, however there are a large number of RVs in the area surrounding the Blanchard site. Delimitation traps will be placed around both sites in the 2002 trapping season.

Delimitation Trapping - No delimitation traps were placed in Idaho in 2001.

Mass Trapping - No mass trapping was done in Idaho in 2001.

No gypsy moths were caught in Idaho in 1999 or 2000.

**Table 3 - Costs of the 2001 gypsy moth survey program.**

AGENCY	COST
Idaho Department of Lands (Estimated cost)	\$23,000.00
Idaho Department of Agriculture	\$13,442.15
US Forest Service - Region 1	\$6,200.00
US Forest Service - Region 4	\$10,000.00
USDA - APHIS Direct costs for traps, baits and travel.	\$1,200.00
USDA - APHIS Cooperative grants.	\$16,506.00
TOTAL	\$70,348.15

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Table 4 - 2001 Trap placement by counties.

COUNTY NAME	NO.	DETECTION 4/MILE <sup>2</sup>	DELIMITATION 36/MILE <sup>2</sup>	MASS 9/ACRE	TOTAL TRAPS
Ada	1	411	0	0	411
Adams	2	40	0	0	40
Bannock	3	112	0	0	112
Bear Lake	4	20	0	0	20
Benewah	5	144	0	0	144
Bingham	6	46	0	0	46
Blaine	7	115	0	0	115
Boise	8	52	0	0	52
Bonner	9	909	0	0	909
Bonneville	10	110	0	0	110
Boundary	11	207	0	0	207
Butte	12	12	0	0	12
Camas	13	12	0	0	12
Canvon	14	222	0	0	222
Caribou	15	18	0	0	18
Cassia	16	35	0	0	35
Clark	17	6	0	0	6
Clearwater	18	162	0	0	162
Custer	19	27	0	0	27
Elmore	20	101	0	0	101
Franklin	21	20	0	0	20
Fremont	22	31	0	0	31
Gem	23	52	0	0	52
Gooding	24	28	0	0	28
Idaho	25	267	0	0	267
Jefferson	26	22	0	0	22
Jerome	27	13	0	0	13
Kootenai	28	1195	0	0	1195
Latah	29	64	0	0	64
Lemhi	30	32	0	0	32
Lewis	31	9	0	0	9
Lincoln	32	23	0	0	23
Madison	33	21	0	0	21
Minidoka	34	30	0	0	30
Nez Perce	35	88	0	0	88
Oneida	36	21	0	0	21
Owyhee	37	45	0	0	45
Pavette	38	38	0	0	38
Power	39	17	0	0	17
Shoshone	40	70	0	0	70
Teton	41	8	0	0	8
Twin Falls	42	221	0	0	221
Valley	43	230	0	0	230
Washington	44	40	0	0	40
TOTALS		5346	0	0	5346

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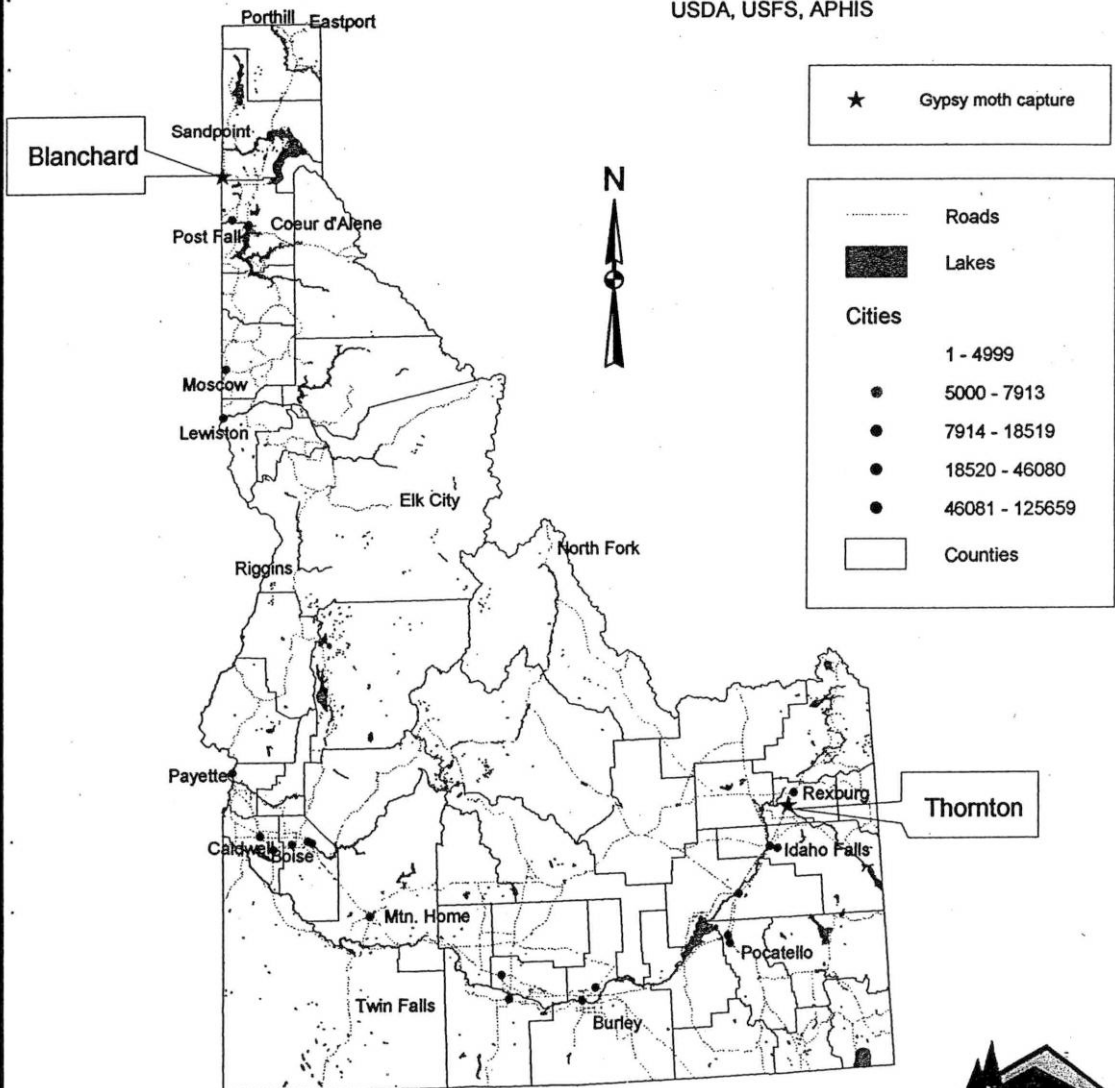
Figure 1:

# Idaho

## Gypsy Moth Capture Sites

### 2001

Idaho Department of Lands in cooperation with  
USDA, USFS, APHIS



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## GYPSY MOTH DECISION CRITERIA FOR AREAS TO TRAP

Original decision criteria as to what areas (zones) or cities to do detection trapping for gypsy moth in and on what schedule to trap were developed by the Gypsy Moth Technical Advisory Committee in 1989. Some revisions have been made in succeeding years. The cities, towns, communities and rural areas of the state are categorized as follows.

Category 1. Detection Surveys conducted annually. This category includes larger cities and towns where numerous people or families moving into the area (move-ins) each year cause a substantial risk of gypsy moth infestation and dictate annual detection trapping. Consideration was also given to cities with colleges, industry, a military base, or tourism that would influence the risk of infestation or that otherwise made annual detection trapping advisable.

Category 2. This category includes smaller cities and towns with populations greater than 2000 but which normally have fewer move-ins. Detection trapping will normally be done every second year.

Category 3. This category includes communities and other areas with populations generally less than 2000. Detection trapping is normally done every third year.

Category 4. This category includes small isolated towns or communities where limited or non-contiguous host interrupts the natural or unaided spread of the insect. These zones will be trapped only every third year, without regard to move-ins.

Category 5. This category was developed for rural communities or areas where little or no risk of introduction exists due to lack of host or limited population. These areas are not trapped unless something occurs that would increase the risk of introduction in a particular year.

A large percentage of the gypsy moth movement around the nation is brought about by families moving into a community and bringing gypsy moths in various life stages (particularly egg masses) with them, usually on outdoor household articles. For this reason, it was determined by the Technical Advisory Committee that if more than 20 move-ins occurred in a category 1, 2 or 3 zone in a one year period, that zone would be trapped that year, regardless of where it was in the normal schedule. This additional trapping will not interrupt or alter the regular schedule. A move-in is defined as an individual or family moving to Idaho from a state that is generally infested with gypsy moths. This information is provided to the program by the Idaho Department of Transportation.

The following pages comprise a list of Idaho towns and the category into which they fall.

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# GYPSY MOTH TRAP ZONE CATEGORIES

CITY	COUNTY	CATEGORY	CITY	COUNTY	CATEGORY
American Falls	Power	1	Grangeville	Idaho	2
Ammon	Bonneville	1	Heyburn	Minidoka	2
Bellevue	Blaine	1	Kellogg	Shoshone	2
Blackfoot	Bingham	1	Middleton	Canyon	2
Boise	Ada	1	Orofino	Clearwater	2
Bonniers Ferry	Boundary	1	Payette	Payette	2
Burley	Cassia	1	Preston	Franklin	2
Caldwell	Canyon	1	Saint Maries	Benewah	2
Chubbuck	Bannock	1	Shelley	Bingham	2
Coeur d'Alene	Kootenai	1	Soda Springs	Caribou	2
Eagle	Ada	1	St. Anthony	Fremont	2
Garden City	Ada	1	Weiser	Washington	2
Hailey	Blaine	1	Aberdeen	Bingham	3
Hayden/Hay. Lk	Kootenai	1	Ahsahka	Clearwater	3
Idaho Falls	Bonneville	1	Ashton	Fremont	3
Jerome	Jerome	1	Athol	Kootenai	3
Ketchum	Blaine	1	Atlanta	Elmore	3
Kimberly	Twin Falls	1	Atomic City	Bingham	3
Kuna	Ada	1	Avery	Shoshone	3
Lewiston	Nez Perce	1	Avon	Latah	3
McCall	Valley	1	Bancroft	Caribou	3
Meridian	Ada	1	Banida	Franklin	3
Moscow	Latah	1	Banks	Boise	3
Mountain Home	Elmore	1	Basalt	Bingham	3
Mountain Home	Elmore	1	Bayview	Kootenai	3
Nampa	Canyon	1	Blanchard	Bonner	3
Pocatello	Bannock	1	Bliss	Gooding	3
Post Falls	Kootenai	1	Bloomington	Bear Lake	3
Rathdrum	Kootenai	1	Bovill	Latah	3
Rexburg	Madison	1	Bowmont	Canyon	3
Rigby	Jefferson	1	Bruneau	Owyhee	3
Rupert	Minidoka	1	Bruneau Hot	Owyhee	3
Salmon	Lemhi	1	Burke	Shoshone	3
Sandpoint	Bonner	1	Butte City	Butte	3
Sun Valley	Blaine	1	Cabinet	Bonner	3
Twin Falls	Twin Falls	1	Calder	Shoshone	3
Buhl	Twin Falls	2	Cambridge	Washington	3
Emmett	Gem	2	Carey	Blaine	3
Fruitland	Payette	2	Careywood	Bonner	3
Gooding	Gooding	2	Cascade	Valley	3

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CITY	COUNTY	CATEGORY	CITY	COUNTY	CATEGORY
Castleford	Twin Falls	3	Enaville	Shoshone	3
Cataldo	Kootenai	3	Fairfield	Camas	3
Cavendish	Clearwater	3	Featherville	Elmore	3
Centerville	Boise	3	Felt	Teton	3
Challis	Custer	3	Fenn	Idaho	3
Chatcolet	Benewah	3	Ferdinand	Idaho	3
Clark Fork	Bonner	3	Fernan Lake	Kootenai	3
Clarkia	Shoshone	3	Fernwood	Benewah	3
Clayton	Custer	3	Filer	Twin Falls	3
Clearwater	Idaho	3	Firth	Bingham	3
Clifton	Franklin	3	Fish Haven	Bear Lake	3
Cobalt	Lemhi	3	Fort Hall	Bingham	3
Cocolalla	Bonner	3	Franklin	Franklin	3
Colburn	Bonner	3	Fruitvale	Adams	3
Conda	Caribou	3	Gannett	Blaine	3
Coolin	Bonner	3	Garden Valley	Boise	3
Copeland	Boundary	3	Gardena	Boise	3
Corral	Camas	3	Garfield Bay	Bonner	3
Cottonwood	Idaho	3	Garwood	Kootenai	3
Council	Adams	3	Gem	Shoshone	3
Craigmont	Lewis	3	Genesee	Latah	3
Crouch	Boise	3	Georgetown	Bear Lake	3
Culdesac	Nez Perce	3	Gibbonsville	Lemhi	3
Dalton Gardens	Kootenai	3	Gifford	Nez Perce	3
Darlington	Butte	3	Gilmore	Lemhi	3
Dayton	Franklin	3	Givens Hot	Owyhee	3
Deary	Latah	3	Glenns Ferry	Elmore	3
DeSmet	Benewah	3	Golden	Idaho	3
Dietrich	Lincoln	3	Grace	Caribou	3
Dixie	Idaho	3	Grand View	Owyhee	3
Donnelly	Valley	3	Grangemont	Clearwater	3
Dover	Bonner	3	Grant	Jefferson	3
Downey	Bannock	3	Greencreek	Idaho	3
Driggs	Teton	3	Greenleaf	Canyon	3
Drummond	Fremont	3	Greer	Clearwater	3
East Hope	Bonner	3	Hagerman	Gooding	3
Eastport	Boundary	3	Hammett	Elmore	3
Eden	Jerome	3	Hansen	Twin Falls	3
Edgemere	Bonner	3	Harpster	Idaho	3
Elk City	Idaho	3	Harrison	Kootenai	3
Elk River	Clearwater	3	Harvard	Latah	3
Elkhorn Village	Blaine	3	Hauser	Kootenai	3
Elmira	Bonner	3	Hazelton	Jerome	3
Emida	Benewah	3	Headquarters	Clearwater	3

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CITY	COUNTY	CATEGORY	CITY	COUNTY	CATEGORY
Helmer	Latah	3	Marsing	Owyhee	3
Hill City	Camas	3	Marysville	Fremont	3
Hollister	Twin Falls	3	McCammon	Bannock	3
Homedale	Owyhee	3	Meadow Creek	Boundary	3
Hope	Bonner	3	Meadows	Adams	3
Horseshoe Bend	Boise	3	Medimont	Kootenai	3
Huetter	Kootenai	3	Melba	Canyon	3
Humphrey	Clark	3	Menan	Jefferson	3
Idaho City	Boise	3	Mesa	Adams	3
Indian Valley	Adams	3	Midvale	Washington	3
Inkom	Bannock	3	Mohler	Lewis	3
Iona	Bonneville	3	Montpelier	Bear Lake	3
Island Park	Fremont	3	Moravia	Boundary	3
Joel	Latah	3	Mount Idaho	Idaho	3
Julietta	Latah	3	Moyie Springs	Boundary	3
Kamiah	Lewis	3	Mullan	Shoshone	3
Kendrick	Latah	3	Murphy	Owyhee	3
Keuterville	Idaho	3	Murray	Shoshone	3
Kilgore	Clark	3	Murtaugh	Twin Falls	3
Kimama	Lincoln	3	Myrtle	Nez Perce	3
King Hill	Elmore	3	Naples	Boundary	3
Kingston	Kootenai	3	New Meadows	Adams	3
Kooskia	Idaho	3	New Plymouth	Payette	3
Kootenai	Bonner	3	Nezperce	Lewis	3
Laclede	Bonner	3	Nordman	Bonner	3
Lake Fork	Valley	3	North Fork	Lemhi	3
Lakeview	Bonner	3	Notus	Canyon	3
Lamb Creek	Bonner	3	Oakley	Cassia	3
Lane	Kootenai	3	Ola	Gem	3
Lapwai	Nez Perce	3	Oldtown	Bonner	3
Lava Hot Springs	Bannock	3	Onaway	Latah	3
Lemhi	Lemhi	3	Oreana	Owyhee	3
Lenore	Nez Perce	3	Orogrande	Idaho	3
Letha	Gem	3	Osburn	Shoshone	3
Lewisville	Jefferson	3	Oxford	Franklin	3
Lincoln	Bonneville	3	Palisades	Bonneville	3
Lorenzo	Jefferson	3	Paris	Bear Lake	3
Lost River	Custer	3	Parma	Canyon	3
Lowell	Idaho	3	Paul	Minidoka	3
Lowman	Boise	3	Pearl	Gem	3
Lucile	Idaho	3	Peck	Nez Perce	3
Mackay	Custer	3	Picabo	Blaine	3
Macks Inn	Fremont	3	Pierce	Clearwater	3
Malad City	Oneida	3	Pine	Elmore	3

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CITY	COUNTY	CATEGORY	CITY	COUNTY	CATEGORY
Pinehurst	Kootenai	3	Sugar City	Madison	3
Pioneerville	Boise	3	Sunbeam	Custer	3
Placerville	Boise	3	Sweet	Gem	3
Plummer	Benewah	3	Tamarack	Adams	3
Pollock	Idaho	3	Tensed	Benewah	3
Ponderay	Bonner	3	Teton	Madison	3
Porthill	Boundary	3	Tetonia	Teton	3
Potlatch	Latah	3	Troy	Latah	3
Prichard	Shoshone	3	Tuttle	Gooding	3
Priest River	Bonner	3	Ucon	Bonneville	3
Princeton	Latah	3	Victor	Teton	3
Reubens	Lewis	3	Viola	Latah	3
Reynolds	Owyhee	3	Waha	Nez Perce	3
Richfield	Lincoln	3	Wallace	Shoshone	3
Riddle	Owyhee	3	Wardner	Shoshone	3
Riggins	Idaho	3	Warm Lake	Valley	3
Ririe	Bonneville	3	Warm River	Fremont	3
Roberts	Jefferson	3	Warren	Idaho	3
Rock Creek	Twin Falls	3	Weippe	Clearwater	3
Rogerson	Twin Falls	3	Wendell	Gooding	3
Rose Lake	Kootenai	3	Westmond	Bonner	3
Roswell	Canyon	3	Weston	Franklin	3
Sagle	Bonner	3	White Bird	Idaho	3
Samaria	Oneida	3	Wilder	Canyon	3
Samuels	Bonner	3	Winchester	Lewis	3
Sanders	Benewah	3	Woodland	Idaho	3
Santa	Benewah	3	Worley	Kootenai	3
Shoshone	Lincoln	3	Yellow Pine	Valley	3
Silver City	Owyhee	3	Acequia	Minidoka	4
Silverton	Shoshone	3	Albion	Cassia	4
Smelterville	Shoshone	3	Almo	Cassia	4
Smiths Ferry	Valley	3	Arco	Butte	4
Southwick	Nez Perce	3	Arimo	Bannock	4
Spalding	Nez Perce	3	Bennington	Bear Lake	4
Spirit Lake	Kootenai	3	Bern	Bear Lake	4
Springston	Kootenai	3	Cape Horn	Custer	4
St. Charles	Bear Lake	3	Chester	Fremont	4
St. Joe	Benewah	3	Declo	Cassia	4
Stanley	Custer	3	Dingle	Bear Lake	4
Star	Ada	3	Dubois	Clark	4
Starkey	Adams	3	Hamer	Jefferson	4
State Line	Kootenai	3	Heise	Madison	4
Sterling	Bingham	3	Holbrook	Oneida	4
Stites	Idaho	3	Houston	Canyon	4

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CITY	COUNTY	CATEGORY	CITY	COUNTY	CATEGORY
Howe	Butte	4	Patterson	Lemhi	5
Irwin	Bonneville	4	Pauline	Power	5
Leadore	Lemhi	4	Portneuf	Bannock	5
Malta	Cassia	4	Shoup	Lemhi	5
May	Lemhi	4	Swan Lake	Bannock	5
Minidoka	Minidoka	4	Thatcher	Franklin	5
Mink Creek	Franklin	4	Triangle	Owyhee	5
Montevieu	Jefferson	4	Virginia	Bannock	5
Moore	Butte	4	Wayan	Caribou	5
Moreland	Bingham	4	Whitney	Franklin	5
Mud Lake	Jefferson	4			
Newdale	Fremont	4			
Ovid	Bear Lake	4			
Parker	Fremont	4			
Pingree	Bingham	4			
Raft River	Cassia	4			
Riverside	Bingham	4			
Robin	Bannock	4			
Rockford	Bingham	4			
Rockland	Power	4			
Spencer	Clark	4			
Springfield	Bingham	4			
Stibnite	Valley	4			
Stone	Oneida	4			
Swan Valley	Bonneville	4			
Tendoy	Lemhi	4			
Terreton	Jefferson	4			
Thornton	Madison	4			
Alridge	Bingham	5			
Arbon	Power	5			
Baker	Lemhi	5			
Bone	Bonneville	5			
Bridge	Cassia	5			
Carmen	Lemhi	5			
Elba	Cassia	5			
Ellis	Custer	5			
Fairview	Franklin	5			
Geneva	Bear Lake	5			
Henry	Caribou	5			
Lund	Caribou	5			
Marion	Cassia	5			
Naf	Cassia	5			
Nounan	Bear Lake	5			

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