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REPORT UPON COOPERATIVE POTATO TUBER WORM SURVEY IN 1945  
AND A SUMMARY FOR THE YEARS 1942 to 1945

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Cooperation with State and Experiment Station Entomologists

The 1945 Survey

The cooperative potato tuber worm survey of 1945 followed essentially the same procedure as during the preceding three years and included a systematic search for and examination of potato fields, potato storages, cull piles, packing sheds and similar situations where potatoes are handled, as well as fields of host plants other than potato such as tobacco, tomato, eggplant, pepper, and susceptible weeds. The survey activities during 1945 were conducted in Iowa and Missouri, the only two states where examinations had not been made during the preceding three years, and in some of the counties of northern California in which infestation had not been found.

The principal data obtained in Iowa and Missouri during 1945 are given opposite the names of these states in table 1. A total of 57 counties were examined in these two states, which required a total of 108 man-hours. This work involved the examination of 90 potato fields and garden plantings of potatoes, 14 tobacco fields and 4 fields of miscellaneous crops or patches of wild host plants. A list of the counties found infested by the potato tuber worm in Iowa and Missouri during 1945 is given opposite these states in table 2, and the names of the counties examined are listed in table 3.

The potato tuber worm was found in the field during 1945 and positive identification made by specialists of the Division of Insect Identification of this Bureau, in 4 counties in Iowa and in 10 counties of Missouri. In Iowa the insect was found in the field and identified in potato, tobacco, and eggplant, and in Missouri in potato, tobacco, and horsenettle.

Summary of Surveys for the Years 1942-1945, Inclusive

The cooperative potato tuber worm survey was started in 1942 and completed in 1945. During the 4-year period involved the various Federal and State cooperators made examinations in all the 48 states. Some of these examinations were made incidental to other survey activities, principally the golden nematode survey, the oriental fruit moth survey, and the survey made primarily at and in the vicinity of Ports of Entry with particular reference to a search for introduced insects.

During the 4-year period of the surveys, the potato tuber worm was found, in the field, or in storage, and positive identification made by specialists of the Division of Insect Identification of this Bureau, in the following 25 states:

Alabama	Iowa	Ohio
Arizona	Louisiana	Pennsylvania
Arkansas	Maryland	South Carolina
California	Mississippi	Tennessee
Colorado	Missouri	Texas
Delaware	Nebraska	Virginia
Florida	New Jersey	Washington
Georgia	North Carolina	Wisconsin
Indiana		

In addition, the insect was collected and identified from potatoes in storage found in two localities of Nevada that had originated outside the state.

A summary of the principal data obtained during the 4-year period of the surveys is given in table 1. It will be noted from this table that a total of 797 counties or parishes were examined in the 48 states, which required a total of 11,291 man-hours. This work involved the examination of 5,262 potato fields and garden plantings of potatoes, 1,672 potato storages, cull piles, and similar situations, 178 tobacco fields and 434 fields of miscellaneous crops or patches of wild host plants. A complete list of counties or parishes found infested by the potato tuber worm during the 4-year period of the surveys is given in table 2, and the names of the counties or parishes examined in all of the 48 states are listed in table 3.

According to the information given in Insect Pest Survey Bulletin 21, Supplement to No. 9 (Nov. 8, 1941) under the title of "Records of Distribution of the Potato Tuber Worm (*Gnorus operculella* (Zell.)) in the United States," this insect had not been found in New Jersey prior to 1943 or in Delaware prior to 1944, although recorded previously from stored potatoes in the latter state. Field infestations in Texas had been recorded prior to 1943. In the instance of Pennsylvania, a heavy infestation of the potato tuber worm was found near Shippensburg, Cumberland County, during 1930, but this infestation was reported as being eradicated and the 1944 record is the first field infestation found since that date. In the State of Washington the cooperative survey during 1942 failed to reveal the presence of the insect but a single specimen was found in the field during 1944. In Iowa the potato tuber worm had been found at widely distributed points in 1918 and each year during the period 1933 to 1937, inclusive, but the 1945 record was the first occurrence recorded since the latter date. In Missouri the insect was reported as being found on tobacco in Platte County, during 1929, and the 1945 record is the first infestation reported since that date. The occurrence of the potato tuber worm in Arizona was recorded by K. B. McKinney in an article entitled "Common Insects Attacking Sugar Beets and Vegetable Crops in the Salt River Valley of Arizona," that appeared in the Journal of Economic Entomology, Vol. 32, No. 6, pp. 808-810, December 1939. This report was overlooked when compiling information for the abovementioned Insect Pest Survey Bulletin 21. In 1944 the presence of the insect in the field in Arizona was again established during the progress of this survey.

Thanks are expressed to the State authorities who participated in the survey, to the personnel of other Divisions of the Bureau who assisted in this work, and also to the specialists of the Division of Insect Identification for their painstaking work in making specific identifications of the material submitted. Appreciation is expressed to H. H. Keifer, Associate Systematic Entomologist, State of California Department of Agriculture, who furnished records of potato tuber worm occurrence in the following 10 counties of California not obtained by Federal workers: Butte, Contra Costa, Kern, Madera, Merced, San Benito, San Francisco, Sonoma, Stanislaus, and Yolo.

The attached colored map shows the following important information obtained during the cooperative potato tuber worm survey in the years 1942-1945, inclusive: (1) Counties or parishes where the insect was found in potatoes. (2) Counties or parishes where the insect was found in tobacco, other crops, or wild host plants. (3) Counties or parishes surveyed but no potato tuber worm infestation found.

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#### 1946 NOTE

Since this report was prepared, adults of the potato tuber worm were collected, during July 1946, from a potato storage cellar at Burley, Cassia County, Idaho. An adult was also collected from weeds growing near Burley. These identifications were made by specialists of the Division of Insect Identification of this Bureau. The source of these findings is reported to be potatoes which originated outside the State of Idaho. Unverified press reports state that the insect was also taken in Idaho at Caldwell, St. Anthony, and Idaho Falls, also in connection with potato shipments.

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Table 1. Extent of cooperative survey on the potato tuber worm during 1942 to 1945, inclusive, and the infestations found

State	Number of Counties or parishes surveyed	Estimate: Number of Man-Hours Devoted to Survey In				Total	Number of Counties Infested - by Plants and Locations				Total *
		Potato fields and gardens	Potato Storages, Cull piles, et cetera	Tobacco fields	Other crops and wild hosts		Potato fields and gardens	Potato Storages, Cull piles, et cetera	Tobacco fields	Other crops and wild hosts	
Alabama	6	0	9	2	5	16	0	3	2	2	4
Arizona	10	91	0	0	45	136	4	0	0	0	4
Arkansas	2	40	0	0	0	40	1	0	0	0	1
California	25	132	1	0	71	204	14	0	0	13	A 21
Colorado	15	20	124	0	0	144	0	1	0	0	B 1
Connecticut	8	160	68	0	0	228	0	0	0	0	0
Delaware	3	150	83	0	0	233	2	2	0	0	2
Florida	27	94	19	40	60	213	13	4	8	8	23
Georgia	50	6	0	72	30	108	0	0	28	2	30
Idaho	44	306	89	0	0	395	0	0	0	0	0
Illinois	7	44	2	0	0	46	0	0	0	0	0
Indiana	15	98	1	0	1	100	1	0	0	0	1
Iowa	31	52	0	1	1	54	3	0	1	2	4
Kansas	11	58	0	0	2	60	0	0	0	0	0
Kentucky	6	45	7	0	0	52	0	0	0	0	0
Louisiana	29	20	472	4	5	501	0	20	1	0	20
Maine	4	70	81	0	0	651	4	0	0	0	0
Maryland	9	75	9	6	0	90	4	0	0	0	4
Massachusetts	11	161	26	0	0	187	0	0	0	0	0
Michigan	17	489	2	0	0	491	0	0	0	0	0
Minnesota	25	413	232	0	3	648	0	0	0	0	0
Mississippi	21	2	85	1	3	91	0	3	0	0	3
Missouri	26	38	0	13	3	54	3	0	9	1	10
Montana	27	44	132	0	0	176	4	0	0	0	0
Nebraska	30	207	106	1	69	383	4	0	0	1	5
Nevada	5	53	34	0	0	87	0	0	0	0	0
New Hampshire	10	68	37	0	0	105	0	0	0	0	0
New Jersey	10	596	150	0	0	746	7	0	0	0	7
New Mexico	3	12	0	0	0	12	0	0	0	0	0
New York	24	260	30	0	10	300	0	0	0	0	0
North Carolina	7	105	23	3	4	135	4	5	2	1	7
North Dakota	17	43	85	0	0	128	0	0	0	0	0
Ohio	31	269	17	4	6	296	2	0	0	0	2
Oklahoma	11	1	54	0	0	55	0	0	0	0	0
Oregon	11	139	0	0	0	139	0	0	0	0	0
Pennsylvania	19	357	30	0	0	387	1	0	0	0	1
Rhode Island	5	80	0	0	0	80	0	0	0	0	0
South Carolina	3	70	0	19	4	93	2	0	1	0	2
South Dakota	8	15	46	0	0	61	0	0	0	0	0
Tennessee	14	659	12	10	0	681	0	0	1	0	1
Texas	44	1031	21	0	16	1068	6	0	0	2	8
Utah	24	238	0	0	75	313	0	0	0	0	0
Vermont	14	95	13	0	0	108	0	0	0	0	0
Virginia	2	6	0	0	0	6	2	0	0	0	2
Washington	5	131	13	0	0	144	1	0	0	0	1
West Virginia	3	30	0	0	0	30	0	0	0	0	0
Wisconsin	49	556	30	28	2	616	25	0	5	0	26
Wyoming	19	257	122	0	21	400	0	0	0	0	0
	197	8386	2265	204	436	11291	99	38	58	32	190

\* Includes instances where more than one species of host plant was found infested in individual counties.

A-Includes records of potato tuber worm occurrence in 10 counties of California furnished in October, 1945, by H. H. Keifer, Associate Systematic Entomologist, State of California Department of Agriculture.

B-Moths found in storage in one county in 1941.

C-Specimens of potato tuber worms were found in stored potatoes at Reno and Elko, Nevada, in 1944. The infested potatoes originated outside the State of Nevada.

Table 2 - List of counties found infested by potato tuber worm during 1942-1945, inclusive

<u>Alabama</u>	Jefferson	Lee	Lincoln	<u>Wisconsin</u>
Baldwin	Lafayette	Muscatine	Otoe	Columbia
Covington	Lee	Story		Crawford
Marshall	Leon		<u>New Jersey</u>	Dane
Mobile	Liberty	<u>Louisiana</u>	Burlington	Dodge
	Madison	Acadia	Camden	Fond du Lac
<u>Arizona</u>	Manatee	Ascension	Cape May	Grant
Cochise	Monroe	Assumption	Cumberland	Iowa
Maricopa	Orange	East Baton Rouge	Gloucester	Jefferson
Pima	Palm Beach	Iberia	Ocean	La Crosse
Santa Cruz	Putnam	Iberville	Salem	Marathon
	Sarasota	Jefferson Davis		Milwaukee
<u>Arkansas</u>	St. Johns	Lafayette		Monroe
White	Suwannee	Lafourche	<u>North Carolina</u>	Oneida
	Taylor	Livingston	Beaufort	Outagamie
<u>California</u>		Plaquemines	Camden	Polk
Alameda	<u>Georgia</u>	St. James	Carteret	Portage
Butte	Atkinson	St. John the Baptist	Currituck	Racine
Contra Costa	Ben Hill	St. Landry	Pamlico	Richland
Kern	Berrien	St. Martin	Pasquotank	Rock
Los Angeles	Brantley	St. Mary	Tyrrell	Sauk
Madera	Brooks	St. Tammany		Shawano
Merced	Bryan	Tangipahoa	<u>Ohio</u>	Vernon
Monterey	Bulloch	Terrebonne	Franklin	Walworth
Orange	Charlton	West Baton Rouge	Sandusky	Waukesha
San Benito	Chatham			Waupaca
San Diego	Clinch			Winnebago
San Francisco	Coffee	<u>Maryland</u>	<u>Pennsylvania</u>	
San Joaquin	Colquitt	Calvert	Philadelphia	
San Luis Obispo	Cook	Somerset		
Santa Barbara	Decatur	Wicomico	<u>South Carolina</u>	
Santa Clara	Echols	Worcester	Charleston	
Santa Cruz	Effingham		Horry	
Solano	Glynn	<u>Mississippi</u>		
Sonoma	Grady	Harrison	<u>Tennessee</u>	
Stanislaus	Irwin	Jackson	Montgomery	
Yolo	Lanier	Pearl River		
	Lowndes		<u>Texas</u>	
<u>Colorado</u>	McIntosh	<u>Missouri</u>	Bailey	
Montrose	Mitchell	Boone	Cameron	
	Pierce	Bollinger	Dallam	
<u>Delaware</u>	Spalding	Callaway	Deaf Smith	
Kent	Thomas	Cooper	Dimmit	
Sussex	Tift	Clay	Hale	
	Turner	Dallas	Hidalgo	
<u>Florida</u>	Ware	Howard	Lubbock	
Alachua	Worth	Lafayette		
Clay		Platte	<u>Virginia</u>	
Columbia	<u>Indiana:</u>	Pike	Northampton	
Dixie	DeKalb		Princess Anne	
Gadsden		<u>Nebraska</u>		
Gilchrist	<u>Iowa:</u>	Box Butte	<u>Washington</u>	
Hamilton	Cass	Buffalo	Yakima	
Indian River		Lancaster		

Table 3.- List of counties examined for potato tuber worm during 1942-1945, inclusive

<u>Alabama</u>	<u>Colorado</u>			
Baldwin	Alamosa	Madison	McIntosh	Nez Perce
Covington	Conejos	Manatee	Mitchell	Oneida
Dallas	Delta	Monroe	Pierce	Owyhee
Jefferson	Dolores	Orange	Rabun	Payette
Marshall	Eagle	Palm Beach	Spalding	Power
Mobile	Garfield	Putnam	Thomas	Shoshone
	La Plata	Sarasota	Tift	Teton
<u>Arizona</u>	Mesa	St. Johns	Turner	Twin Falls
Cochise	Montezuma	Suwannee	Walton	Valley
Coconino	Montrose	Taylor	Ware	Washington
Graham	Morgan		Wayne	
Greenlee	Rio Grande	<u>Georgia</u>	Wilkes	<u>Illinois</u>
Maricopa	Saguache	Atkinson	Worth	Adams
Pima	Sedgwick	Barrow		Cook
Pinal	Weld	Banks	<u>Idaho</u>	Jo Daviess
Santa Cruz		Ben Hill	Ada	Madison
Yavapai	<u>Connecticut</u>	Berrien	Adams	McHenry
Yuma	Fairfield	Brantley	Bannock	Saint Clair
	Hartford	Brooks	Bear Lake	Will
	Litchfield	Bryan	Benewah	
<u>Arkansas</u>	Middlesex	Bulloch	Bingham	<u>Indiana</u>
Howard	New Haven	Camden	Blaine	Allen
White	New London	Charlton	Boise	DeKalb
	Tolland	Chatham	Bonner	Elkhart
<u>California</u>	Windham	Cherokee	Bonneville	Fulton
Alameda		Clinch	Boundary	Kosciusko
Butte	<u>Delaware</u>	Coffee	Butte	Lagrange
Contra Costa	Kent	Colquitt	Camas	Lake
Humboldt	New Castle	Cook	Canyon	La Porte
Kern	Sussex	Dawson	Caribou	Marshall
Los Angeles		Decatur	Cassia	Noble
Madera	<u>Florida</u>	Echols	Clark	Porter
Merced	Alachua	Effingham	Clearwater	Pulaski
Mendocino	Broward	Elbert	Custer	Starke
Modoc	Clay	Forsyth	Elmore	Steuben
Monterey	Columbia	Gilmer	Franklin	Saint Joseph
Orange	Collier	Glynn	Fremont	
San Benito	Dade	Grady	Gem	<u>Iowa</u>
San Diego	Dixie	Gwinnett	Gooding	Allamakee
San Francisco	Gadsden	Habersham	Idaho	Boone
San Joaquin	Gilchrist	Hall	Jefferson	Benton
San Luis Obispo	Hamilton	Hart	Jerome	Clinton
Santa Barbara	Indian River	Irwin	Kootena	Clayton
Santa Clara	Jackson	Jackson	Latah	Clay
Santa Cruz	Jefferson	Lanier	Lemhi	Cass
Siskiyou	Lafayette	Liberty	Lewis	Carrol
Solano	Lee	Lincoln	Lincoln	Cerro Gordo
Sonoma	Leon	Long	Madison	Decatur
Stanislaus	Liberty	Lowndes	Minidoka	Dallas
Yolo				

Table 3.- List of counties examined for potato tuber worm during 1942-1945, inclusive (continued)

<u>Iowa (Cont'd)</u>	Iberia	Middlesex	<u>Mississippi</u>	<u>Montana</u>
Dubuque	Iberville	Norfolk	Attala	Beaverhead
Des Moines	Jackson	Plymouth	Calhoun	Big Horn
Franklin	Jefferson Davis	Worcester	Coahoma	Blaine
Grundy	Lafayette		Harrison	Carbon
Hamilton	La Fourche	<u>Michigan</u>	Hinds	Cascade
Hardin	Livingston	Antrim	Holmes	Chouteau
Louisa	Plaquemines	Bay	Humphreys	Custer
Lee	Pointe Coupee	Emmet	Issaquena	Dawson
Marshall	Rapides	Grand Traverse	Jackson	Deer Lodge
Monona	St. Charles	Houghton	Jasper	Flathead
Muscatine	St. James	Jackson	Lauderdale	Gallatin
O'Brien	St. John the Baptist	Kent	Leake	Hill
Pottawattamie	St. Landry	Lapeer	Leflore	Jefferson
Plymouth	St. Martin	Lenawee	Madison	Lake
Polk	St. Mary	Macomb	Newton	Lewis and Clark
Story	St. Tammany	Marquette	Pearl River	Madison
Sioux	Tangipahoa	Monroe	Sunflower	Missoula
Tama	Terrebonne	Montcalm	Tate	Phillips
Woodbury	Washington	Osceola	Washington	Powell
Winneshiek	West Baton Rouge	Otsego	Wayne	Prairie
	West Feliciana	Presque Isle	Yelobusha	Ravilli
	Winn	Wex ford		Richland
<u>Kansas</u>		<u>Minnesota</u>	<u>Missouri</u>	Roosevelt
Cowley		Aitkin	Boone	Rosebud
Douglas	<u>Maine</u>	Anoka	Bollinger	Teton
Jefferson	Aroostook	Becker	Butler	Valley
Johnson	Penobscot	Benton	Callaway	Yellowstone
Leavenworth	Piscataquis	Beltrami	Camden	
Reno	Waldo	Chisago	Carrol	
Riley		Clay	Chariton	<u>Nebraska</u>
Sedgwick	<u>Maryland</u>	Freeborn	Cooper	Adams
Shawnee	Calvert	Goodhue	Clay	Antelope
Sumner	Charles	Hennepin	Dallas	Box Butte
Wyandotte	Frederick	Isanti	Greene	Buffalo
	Garrett	Itasca	Howell	Cass
	Montgomery	Kittson	Howard	Cheyenne
<u>Kentucky</u>	Somerset	Marshall	Lafayette	Clay
Christian	St. Marys	Mille Lacs	Miller	Dakota
Jefferson	Wicomico	Morrison	Platte	Dawes
Logan	Worcester	Norman	Pike	Duel
Muhlenberg		Otter Tail	Pemiscot	Fillmore
Oldham	<u>Massachusetts</u>	Pine	Ray	Franklin
Todd	Barnstable	Polk	Randolph	Gage
	Berkshire	Ramsey	Saline	Garden
<u>Louisiana</u>	Bristol	Roseau	Shannon	Hall
Acadia	Essex	Stearns	Stoddard	Johnson
Ascension	Franklin	Todd	St. Louis	Kimball
Assumption	Hampden	Wadena	Texas	Lancaster
Avoyelles	Hampshire		Webster	Lincoln
East Baton Rouge				
East Feliciana				

Table 3.- List of counties examined for potato tuber worm during 1942-1945, inclusive (continued)

<u>Nebraska (Cont'd)</u>	Chenango	<u>Ohio</u>	Marion	Cumberland
Morrill	Clinton	Ashtabula	Multnomah	Davidson
Otoe	Cortland	Brown	Polk	Fentress
Pawnee	Erie	Butler	Tillamook	Franklin
Platte	Essex	Champaign	Washington	Grundy
Richardson	Franklin	Clark	Yamhill	Montgomery
Saunders	Genesee	Clermont		Moore
Scottsbluff	Livingston	Clinton	<u>Pennsylvania</u>	Morgan
Sheridan	Madison	Columbiana	Berks	Putnam
Sioux	Monroe	Coshocton	Bucks	Robertson
Washington	Nassau	Darke	Cambria	Scott
York	Niagara	Delaware	Chester	White
	Oneida	Erie	Cumberland	
<u>Nevada</u>	Onondaga	Fayette	Dauphin	<u>Texas</u>
Elko	Orleans	Franklin	Delaware	Angelina
Humboldt	Seneca	Geauga	Erie	Austin
Lyon	Steuben	Hardin	Franklin	Atascosa
Pershing	Suffolk	Highland	Lancaster	Bailey
Washoe	Washington	Huron	Lehigh	Bexar
	Wayne	Licking	Luzerne	Bowie
<u>New Hampshire</u>	Westchester	Lorain	Montgomery	Cameron
Belknap	Wyoming	Lucas	Northampton	Camp
Carroll		Madison	Philadelphia	Castro
Cheshire	<u>North Carolina</u>	Morrow	Potter	Cherokee
Coos	Beaufort	Ottawa	Schuylkill	Colorado
Grafton	Camden	Paulding	Somerset	Comanche
Hillsboro	Carteret	Pickaway	York	Dallam
Merrimack	Currituck	Richland		Dallas
Rockingham	Pamlico	Sandusky	<u>Rhode Island</u>	Deaf Smith
Strafford	Pasquotank	Seneca	Bristol	Dimmit
Sullivan	Tyrrell	Wayne	Kent	Erath
		Wood	Newport	Fannin
<u>New Jersey</u>			Providence	Fort Bend
Burlington	<u>North Dakota</u>	<u>Oklahoma</u>	Washington	Franklin
Camden	Barnes	Bryan		Gillespie
Cape May	Benson	Choctaw	<u>South Carolina</u>	Gregg
Cumberland	Case	Haskell	Beaufort	Hale
Gloucester	Foster	Le Flore	Charleston	Harris
Mercer	Griggs	McCurtain	Horry	Hidalgo
Middlesex	Grand Forks	Muskogee		Hockley
Monmouth	McHenry	Okfuskee	<u>South Dakota</u>	Lamar
Ocean	Pembina	Payne	Brookings	Lavaca
Salem	Ramsey	Pottawatomie	Clark	Lubbock
	Richland	Tulsa	Codington	Nacogdoches
<u>New Mexico</u>	Stutsman	Wagoner	Day	Polk
Bernalillo	Traill		Deuel	Red River
Sandoval	Towner	<u>Oregon</u>	Grant	Rusk
Valencia	Walsh	Benton	Marshall	Shelby
	Wells	Klamath	Roberts	Swith
<u>New York</u>	Ward	Lane		Tarrant
Allegany	Williams	Lincoln	<u>Tennessee</u>	Titus
Broome		Linn	Cheatham	
			Coffee	



Table 3.- List of counties examined for potato tuber worm during 1942-1945, inclusive (continued)

Texas Cont'd)

Travis  
Upsbur  
Van Zandt  
Wharton  
Wilbarger  
Wise  
Wood

Utah

Beaver  
Box Elder  
Cache  
Carbon  
Davis  
Emery  
Garfield  
Grand  
Iron  
Juab  
Kane  
Millard  
Morgan  
Piute  
Salt Lake  
San Juan  
Sanpete  
Sevier  
Summit  
Tooele  
Utah  
Wasatch  
Washington  
Weber

Vermont

Addison  
Bennington  
Caledonia  
Chittenden  
Essex  
Franklin  
Grand Isle  
Lamoille  
Orange  
Orleans  
Rutland  
Washington  
Windham  
Windsor

Viriginia

Northampton  
Princess Anne

Washington

Benton  
King  
Kittitas  
Pierce  
Yakima

West Virginia

Preston  
Randolph  
Tucker

Wisconsin

Barron  
Chippewa  
Clark  
Columbia  
Crawford  
Dane  
Dodge  
Door  
Dunn  
Eau Claire  
Fond du Lac  
Green Lake  
Grant  
Iowa  
Jackson  
Jefferson  
Juneau  
Kenosha  
Kewaunee  
La Crosse  
Langlade  
Manitowoc  
Marathon  
Marquette  
Milwaukee  
Monroe  
Oneida  
Outagamie  
Ozaukee  
Polk  
Portage

Racine  
Richland  
Rock  
Rusk  
Sauk  
Shawano  
Sawyer  
St. Croix  
Trempealeau  
Vilas  
Vernon  
Walworth  
Washburn  
Washington  
Waukesha  
Waupaca  
Waushara  
Winnebago

Wyoming

Albany  
Big Horn  
Carbon  
Crook  
Fremont  
Goshen  
Hot Springs  
Laramie  
Lincoln  
Natrona  
Niobrara  
Park  
Sheridan  
Sublette  
Sweetwater  
Teton  
Unita  
Washakie  
Weston





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