

Documentation for Selected Reference Tables in the Archive Database Version 1.0 October 9, 2002

1.0 General Information

Several tables in the archive database have already been populated for the River Forecast Center (RFC). These tables are: huc2, huc4, huc6, huc8, country, state, counties, rfc, wfo_hsa, shefdur, shefpe, shefpe1, shefpetrans, shefprob, shefqc, shefts and datalimits. The contents of these tables are discussed in the following sections. The RFC Archive Team is aware of efforts led by a Central Region (CR) team to standardize selected reference tables in the IHFS database. Whenever possible an effort has been made to be consistent with the guidelines being developed by the CR team but there may be some differences.

The archive database is delivered with these tables already defined. The load files and run_load-xref script can be found in /arc/xref-data directory.

2.0 Hydrologic Unit Code Tables

Source of the data for these four tables was obtained from USGS website. Detailed information about the hydrologic unit codes (huc) can be found at the following site: <http://water.usgs.gov/nawqa/sparrow/wrr97/geograp/geograp.html> .

A brief explanation of the HUC obtained from this site is as follows: "An eight-digit code uniquely identifies each of the four levels of classification within four two-digit fields. The first two digits identify the water-resources region; the first four digits identify the sub-region; the first six digits identify the accounting unit, and the addition of two more digits for the cataloging unit completes the eight-digit code. An example is given here using hydrologic unit code (HUC) 01080204:

01	- the region
0108	- the sub-region
010802	- the accounting unit
01080204	- the cataloging unit

An 00 in the two-digit accounting unit field indicates that the accounting unit and the sub-region are the same. Likewise, if the cataloging unit field is 00, it is the same as the accounting unit.... In addition to hydrologic unit codes, each hydrologic unit has been assigned a name corresponding to the principal hydrologic feature(s) within the unit. In the absence of such features, the assigned name may reflect a cultural or political feature within the unit. All regions and sub-regions are uniquely named; however, the accounting units are uniquely named only within each region, and the cataloging units are uniquely named only within each accounting unit....”

2.1 huc2 - Region Data

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
01	New England	12	Texas-Gulf
02	Mid Atlantic	13	Rio Grande
03	South Atlantic-Gulf	14	Upper Colorado
04	Great Lakes	15	Lower Colorado
05	Ohio	16	Great Basin
06	Tennessee	17	Pacific Northwest
07	Upper Mississippi	18	California
08	Lower Mississippi	19	Alaska
09	Souris-Red-Rainy	20	Hawaii
10	Missouri	21	Caribbean
11	Arkansas-White-Red		

2.2 huc4 - Sub-region Data

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
0101	St. John	0303	Cape Fear
0102	Penobscot	0304	Pee Dee
0103	Kennebec	0305	Edisto-Santee
0104	Androscoggin	0306	Ogeechee-Savannah
0105	Maine Coastal	0307	Altamaha - St. Marys
0106	Saco	0308	St. Johns
0107	Merrimack	0309	Southern Florida
0108	Connecticut	0310	Peace-Tampa Bay
0109	Massachusetts-Rhode Island Coastal	0311	Suwannee
0110	Connecticut Coastal	0312	Ochlockonee
0111	St. Francois	0313	Apalachicola
0201	Richelieu	0314	Choctawhatchee - Escambia
0202	Upper Hudson	0315	Alabama
0203	Lower Hudson-Long Island	0316	Mobile - Tombigbee
0204	Delaware	0317	Pascagoula
0205	Susquehanna	0318	Pearl
0206	Upper Chesapeake	0401	Western Lake Superior
0207	Potomac	0402	Southern Lake Superior-Lake Superior
0208	Lower Chesapeake	0403	Northwestern Lake Michigan
0301	Chowan-Roanoke	0404	Southwestern Lake Michigan
0302	Neuse-Pamlico	0405	Southeastern Lake Michigan
		0406	Northeastern Lake Michigan-Lake

	Michigan	0901	Souris
0407	Northwestern Lake Huron	0902	Red
0408	Southwestern Lake Huron-Lake Huron	0903	Rainy
0409	St. Clair-Detroit	1001	Saskatchewan
0410	Western Lake Erie	1002	Missouri Headwaters
0411	Southern Lake Erie	1003	Missouri-Marias
0412	Eastern Lake Erie-Lake Erie	1004	Missouri-Musselshell
0413	Southwestern Lake Ontario	1005	Milk
0414	Southeastern Lake Ontario	1006	Missouri-Poplar
		1007	Upper Yellowstone
0415	Northeastern Lake	1008	Big Horn
	Ontario-LakeOntario-St. Lawrence	1009	Powder-Tongue
0501	Allegheny	1010	Lower Yellowstone
0502	Monongahela	1011	Missouri-Little Missouri
0503	Upper Ohio	1012	Cheyenne
0504	Muskingum	1013	Missouri-Oahe
0505	Kanawha	1014	Missouri-White
0506	Scioto	1015	Niobrara
0507	Big Sandy-Guyandotte	1016	James
0508	Great Miami	1017	Missouri-Big Sioux
0509	Middle Ohio	1018	North Platte
0510	Kentucky-Licking	1019	South Platte
0511	Green	1020	Platte
0512	Wabash	1021	Loup
0513	Cumberland	1022	Elkhorn
0514	Lower Ohio	1023	Missouri-Little Sioux
0601	Upper Tennessee	1024	Missouri-Nishnabotna
0602	Middle Tennessee-Hiwassee	1025	Republican
0603	Middle Tennessee-Elk	1026	Smoky Hill
0604	Lower Tennessee	1027	Kansas
0701	Mississippi Headwaters	1028	Chariton-Grand
0702	Minnesota	1029	Gasconade-Osage
0703	St. Croix	1030	Lower Missouri
0704	Upper Mississippi-Black-Root	1101	Upper White
0705	Chippewa	1102	Upper Arkansas
0706	Upper Mississippi-Maquoketa-Plum	1103	Middel Arkansas
0707	Wisconsin	1104	Upper Cimarron
0708	Upper	1105	Lower Cimarron
	Mississippi-Iowa-Skunk-Wapsipinicon	1106	Arkansas - Keystone
0709	Rock	1107	Neosho - Verdigris
0710	Des Moines	1108	Upper Canadian
0711	Upper Mississippi-Salt	1109	Lower Canadian
0712	Upper Illinois	1110	North Canadian
0713	Lower Illinois	1111	Lower Arkansas
0714	Upper Mississippi-Kaskaskia-Meramec	1112	Red headwaters
0801	Lower Mississippi-Hatchie	1113	Red - Washita
0802	Lower Mississippi - St. Francis	1114	Red-Sulphur
0803	Lower Mississippi - Yazoo	1201	Sabine
0804	Lower Red - Ouachita	1202	Neches
0805	Boeuf-Tensas	1203	Trinity
0806	Lower Mississippi - Big Black	1204	Galveston Bay-San Jacinto
0807	Lower Mississippi-Lake Maurepas	1205	Brazos headwaters
0808	Louisiana Coastal	1206	Middle Brazos
0809	Lower Mississippi	1207	Lower Brazos

1208	Upper Colorado	1704	Upper Snake
1209	Lower Colorado-San Bernard Coastal	1705	Middle Snake
1210	Central Texas Coastal	1706	Lower Snake
1211	Nueces-Southwestern Texas Coastal	1707	Middle Columbia
1301	Rio Grande headwaters	1708	Lower Columbia
1302	Rio Grande-Elephant Butte	1709	Willamette
1303	Rio Grande-Mimbres	1710	Oregon-Washington Coastal
1304	Rio Grande-Amistad	1711	Puget Sound
1305	Rio Grande closed basins	1712	Oregon closed basins
1306	Upper Pecos	1801	Klamath-Northern California Coastal
1307	Lower Pecos	1802	Sacramento
1308	Rio Grande-Falcon	1803	Tulare-Buena Vista Lakes
1309	Lower Rio Grande	1804	San Joaquin
1401	Colorado headwaters	1805	San Francisco Bay
1402	Gunnison	1806	Central California Coastal
1403	Upper Colorado-Dolores	1807	Southern California Coastal
1404	Great Divide - Upper Green	1808	North Lahontan
1405	White-Yampa	1809	Northern Mojave-Mono Lake
1406	Lower Green	1810	Southern Mojave-Salton Sea
1407	Upper Colorado-Dirty Devil	1901	Arctic Slope
1408	San Juan	1902	Northwest Alaska
1501	Lower Colorado-Lake Mead	1903	Yukon
1502	Little Colorado	1904	Southwest Alaska
1503	Lower Colorado	1905	South Central Alaska
1504	Upper Gila	1906	Southeast Alaska
1505	Middle Gila	2001	Hawaii
1506	Salt	2002	Maui
1507	Lower Gila	2003	Kahoolawe
1508	Sonora	2004	Lanai
1601	Bear	2005	Molokai
1602	Great Salt Lake	2006	Oahu
1603	Escalante Desert-Sevier Lake	2007	Kauai
1604	Black Rock Desert-Humboldt	2008	Niihau
1605	Central Lahontan	2009	Northwestern Hawaiian Islands
1606	Central Nevada Desert Basins	2101	Puerto Rico
1701	Kootenai-Pend Oreille-Spokane	2102	Virgin Islands
1702	Upper Columbia	2103	Caribbean Outlying Areas
1703	Yakima		

2.3 huc6 - Accounting Unit Data

The basic data for this table is not presented due to the length of the listing. The user can generate this listing by querying the huc6 table.

2.4 huc8 - Cataloging Unit Data

The basic data for this table is not presented due to the length of the listing. The user can generate this listing by querying the huc8 table.

3.0 Country Table

There are 3 countries defined in this table. This information was obtained from an ESRI data file.

<u>FIPS</u>	<u>description</u>
CA	Canada
MX	Mexico
US	United States

4.0 State Table

The state table has been designed to allow for Canadian provinces and Mexican states in addition to the states, territories and possessions of the United States of America. The information for this table was obtained from a variety of internet sources. XX in the NCDC and FIPS fields indicated not defined.

4.1 United States

<u>code</u>	<u>name</u>	<u>NCDC</u>	<u>FIPS</u>				
				NJ	New Jersey	28	34
AL	Alabama	01	01	NM	New Mexico	29	35
AK	Alaska	50	02	NY	New York	30	36
AZ	Arizona	02	04	NC	North Carolina	31	37
AR	Arkansas	03	05	ND	North Dakota	32	38
CA	California	04	06	OH	Ohio	33	39
CO	Colorado	05	08	OK	Oklahoma	34	40
CT	Connecticut	06	09	OR	Oregon	35	41
DE	Delaware	07	10	PA	Pennsylvania	36	42
DC	District of Columbia	18	11	RI	Rhode Island	37	44
FL	Florida	08	12	SC	South Carolina	38	45
GA	Georgia	09	13	SD	South Dakota	39	46
HI	Hawaii	51	15	TN	Tennessee	40	47
ID	Idaho	10	16	TX	Texas	41	48
IL	Illinois	11	17	UT	Utah	42	49
IN	Indiana	12	18	VT	Vermont	43	50
IA	Iowa	13	19	VA	Virginia	44	51
KS	Kansas	14	20	WA	Washington	45	53
KY	Kentucky	15	21	WV	West Virginia	46	54
LA	Louisiana	16	22	WI	Wisconsin	47	55
ME	Maine	17	23	WY	Wyoming	48	56
MD	Maryland	18	24	PR	Puerto Rico	66	72
MA	Massachusetts	19	25	VI	Virgin Islands	67	78
MI	Michigan	20	26	AS	American Samoa	XX	60
MN	Minnesota	21	27	FM	Federated Micronesia	XX	64
MS	Mississippi	22	28	GU	Guam	XX	66
MO	Missouri	23	29	MH	Marshall Islands	XX	68
MT	Montana	24	30	MP	N. Mariana Islands	XX	69
NE	Nebraska	25	31	PW	Palau	XX	70
NV	Nevada	26	32	UM	Midway Islands	XX	74
NH	New Hampshire	27	33				

4.2 Canada

No supplemental information on Nuavut territory was found.

code	name	NCDC	FIPS	NS	Nova Scotia	74	07
AB	Alberta	68	01	ON	Ontario	75	08
BC	British Columbia	69	02	PE	Prince Edward Island	76	09
MB	Manitoba	70	03	PQ	Quebec	77	10
NB	New Brunswick	71	04	SK	Saskatchewan	78	11
NF	Newfoundland	72	05	YT	Yukon	79	12
NT	Northwest Terr.	73	06	NU	Nuavut	XX	13

4.3 Mexico

No source for 2-character abbreviations was found for the Mexican states. Codes assigned where made-up and coordinated with interested RFCs.

code	name	NCDC	FIPS	MR	Morelos	XX	17
AG	Aguascalientes	XX	01	NA	Nayarit	XX	18
BN	Baja California Norte	XX	02	NL	Nuevo Leon	XX	19
BS	Baja California Sur	XX	03	OA	Oaxaca	XX	20
CM	Campeche	XX	04	PU	Puebla	XX	21
CI	Chiapas	XX	05	QA	Queretaro de Arteaga	XX	22
CH	Chihuahua	XX	06	QR	Quintana Roo	XX	23
CZ	Coahuila de Zaragoza	XX	07	SI	Sinaloa	XX	25
CL	Colima	XX	08	SO	Sonora	XX	26
DF	Distrito Federal	XX	09	TB	Tabasco	XX	27
DU	Durango	XX	10	TM	Tamaulipas	XX	28
GN	Guanajuato	XX	11	TL	Tlaxcala	XX	29
GE	Guerrero	XX	12	VL	Veracruz-Llave	XX	30
HD	Hidalgo	XX	13	YU	Yucatan	XX	31
JA	Jalisco	XX	14	ZA	Zacatecas	XX	32
MX	Mexico	XX	15				
MC	Michoacan de Ocampo	XX	16				

5.0 Counties Table

Information for this table was extracted from "dbf" file obtained from the following NWS web site: <http://www.awips.noaa.gov/mapdata/newcat/>

5.1 United States

5.1.1 Listing by Central Region WFOs

county name	state code	FIPS	primary wfo	Buffalo	SD	017	ABR
Big Stone	MN	011	ABR	Campbell	SD	021	ABR
Traverse	MN	155	ABR	Clark	SD	025	ABR
Brown	SD	013	ABR	Codington	SD	029	ABR
				Corson	SD	031	ABR

Day	SD	037	ABR	Winneshiek	IA	191	ARX
Deuel	SD	039	ABR	Dodge	MN	039	ARX
Dewey	SD	041	ABR	Fillmore	MN	045	ARX
Edmunds	SD	045	ABR	Houston	MN	055	ARX
Faulk	SD	049	ABR	Mower	MN	099	ARX
Grant	SD	051	ABR	Olmsted	MN	109	ARX
Hamlin	SD	057	ABR	Wabasha	MN	157	ARX
Hand	SD	059	ABR	Winona	MN	169	ARX
Hughes	SD	065	ABR	Adams	WI	001	ARX
Hyde	SD	069	ABR	Buffalo	WI	011	ARX
Jones	SD	075	ABR	Clark	WI	019	ARX
Lyman	SD	085	ABR	Crawford	WI	023	ARX
McPherson	SD	089	ABR	Grant	WI	043	ARX
Marshall	SD	091	ABR	Jackson	WI	053	ARX
Potter	SD	107	ABR	Juneau	WI	057	ARX
Roberts	SD	109	ABR	La Crosse	WI	063	ARX
Spink	SD	115	ABR	Monroe	WI	081	ARX
Stanley	SD	117	ABR	Richland	WI	103	ARX
Sully	SD	119	ABR	Taylor	WI	119	ARX
Walworth	SD	129	ABR	Trempealeau	WI	121	ARX
				Vernon	WI	123	ARX
Alcona	MI	001	APX				
Alpena	MI	007	APX	Adams	ND	001	BIS
Antrim	MI	009	APX	Billings	ND	007	BIS
Arenac	MI	011	APX	Bottineau	ND	009	BIS
Benzie	MI	019	APX	Bowman	ND	011	BIS
Charlevoix	MI	029	APX	Burke	ND	013	BIS
Cheboygan	MI	031	APX	Burleigh	ND	015	BIS
Chippewa	MI	033	APX	Dickey	ND	021	BIS
Crawford	MI	039	APX	Divide	ND	023	BIS
Emmet	MI	047	APX	Dunn	ND	025	BIS
Gladwin	MI	051	APX	Emmons	ND	029	BIS
Grand Traverse	MI	055	APX	Foster	ND	031	BIS
Iosco	MI	069	APX	Golden Valley	ND	033	BIS
Kalkaska	MI	079	APX	Grant	ND	037	BIS
Leelanau	MI	089	APX	Hettinger	ND	041	BIS
Mackinac	MI	097	APX	Kidder	ND	043	BIS
Manistee	MI	101	APX	La Moure	ND	045	BIS
Missaukee	MI	113	APX	Logan	ND	047	BIS
Montmorency	MI	119	APX	McHenry	ND	049	BIS
Ogemaw	MI	129	APX	McIntosh	ND	051	BIS
Oscoda	MI	135	APX	McKenzie	ND	053	BIS
Otsego	MI	137	APX	McLean	ND	055	BIS
Presquelsle	MI	141	APX	Mercer	ND	057	BIS
Roscommon	MI	143	APX	Morton	ND	059	BIS
Wexford	MI	165	APX	Mountrail	ND	061	BIS
				Oliver	ND	065	BIS
Allamakee	IA	005	ARX	Pierce	ND	069	BIS
Chickasaw	IA	037	ARX	Renville	ND	075	BIS
Clayton	IA	043	ARX	Rolette	ND	079	BIS
Fayette	IA	065	ARX	Sheridan	ND	083	BIS
Floyd	IA	067	ARX	Sioux	ND	085	BIS
Howard	IA	089	ARX	Slope	ND	087	BIS
Mitchell	IA	131	ARX	Stark	ND	089	BIS

Stutsman	ND	093	BIS	Haskell	KS	081	DDC
Ward	ND	101	BIS	Hodgeman	KS	083	DDC
Wells	ND	103	BIS	Kearny	KS	093	DDC
Williams	ND	105	BIS	Kiowa	KS	097	DDC
				Lane	KS	101	DDC
Adams	CO	001	BOU	Meade	KS	119	DDC
Arapahoe	CO	005	BOU	Morton	KS	129	DDC
Boulder	CO	013	BOU	Ness	KS	135	DDC
Broomfield	CO	014	BOU	Pawnee	KS	145	DDC
Clear Creek	CO	019	BOU	Pratt	KS	151	DDC
Denver	CO	031	BOU	Rush	KS	165	DDC
Douglas	CO	035	BOU	Scott	KS	171	DDC
Elbert	CO	039	BOU	Seward	KS	175	DDC
Gilpin	CO	047	BOU	Stafford	KS	185	DDC
Grand	CO	049	BOU	Stanton	KS	187	DDC
Jackson	CO	057	BOU	Stevens	KS	189	DDC
Jefferson	CO	059	BOU	Trego	KS	195	DDC
Larimer	CO	069	BOU				
Lincoln	CO	073	BOU	Aitkin	MN	001	DLH
Logan	CO	075	BOU	Carlton	MN	017	DLH
Morgan	CO	087	BOU	Cass	MN	021	DLH
Park	CO	093	BOU	Cook	MN	031	DLH
Phillips	CO	095	BOU	Crow Wing	MN	035	DLH
Sedgwick	CO	115	BOU	Itasca	MN	061	DLH
Summit	CO	117	BOU	Koochiching	MN	071	DLH
Washington	CO	121	BOU	Lake	MN	075	DLH
Weld	CO	123	BOU	Pine	MN	115	DLH
				St. Louis	MN	137	DLH
Banner	NE	007	CYS	Ashland	WI	003	DLH
Box Butte	NE	013	CYS	Bayfield	WI	007	DLH
Cheyenne	NE	033	CYS	Burnett	WI	013	DLH
Dawes	NE	045	CYS	Douglas	WI	031	DLH
Kimball	NE	105	CYS	Iron	WI	051	DLH
Morrill	NE	123	CYS	Price	WI	099	DLH
Scotts Bluff	NE	157	CYS	Sawyer	WI	113	DLH
Sioux	NE	165	CYS	Washburn	WI	129	DLH
Albany	WY	001	CYS				
Carbon	WY	007	CYS	Adair	IA	001	DMX
Converse	WY	009	CYS	Adams	IA	003	DMX
Goshen	WY	015	CYS	Appanoose	IA	007	DMX
Laramie	WY	021	CYS	Audubon	IA	009	DMX
Niobrara	WY	027	CYS	Black Hawk	IA	013	DMX
Platte	WY	031	CYS	Boone	IA	015	DMX
				Bremer	IA	017	DMX
Ellis	KS	051	DDC	Butler	IA	023	DMX
Grant	KS	067	DDC	Calhoun	IA	025	DMX
Gray	KS	069	DDC	Carroll	IA	027	DMX
Finney	KS	055	DDC	Cass	IA	029	DMX
Ford	KS	057	DDC	Cerro Gordo	IA	033	DMX
Barber	KS	007	DDC	Clarke	IA	039	DMX
Clark	KS	025	DDC	Crawford	IA	047	DMX
Comanche	KS	033	DDC	Dallas	IA	049	DMX
Edwards	KS	047	DDC	Davis	IA	051	DMX
Hamilton	KS	075	DDC	Decatur	IA	053	DMX

Emmet	IA	063	DMX	Buchanan	IA	019	DVN
Franklin	IA	069	DMX	Cedar	IA	031	DVN
Greene	IA	073	DMX	Clinton	IA	045	DVN
Grundy	IA	075	DMX	Delaware	IA	055	DVN
Guthrie	IA	077	DMX	Des Moines	IA	057	DVN
Hamilton	IA	079	DMX	Dubuque	IA	061	DVN
Hancock	IA	081	DMX	Henry	IA	087	DVN
Hardin	IA	083	DMX	Iowa	IA	095	DVN
Humboldt	IA	091	DMX	Jackson	IA	097	DVN
Jasper	IA	099	DMX	Jefferson	IA	101	DVN
Kossuth	IA	109	DMX	Johnson	IA	103	DVN
Lucas	IA	117	DMX	Jones	IA	105	DVN
Madison	IA	121	DMX	Keokuk	IA	107	DVN
Mahaska	IA	123	DMX	Lee	IA	111	DVN
Marion	IA	125	DMX	Linn	IA	113	DVN
Marshall	IA	127	DMX	Louisa	IA	115	DVN
Monroe	IA	135	DMX	Muscatine	IA	139	DVN
Palo Alto	IA	147	DMX	Scott	IA	163	DVN
Pocahontas	IA	151	DMX	Van Buren	IA	177	DVN
Polk	IA	153	DMX	Washington	IA	183	DVN
Poweshiek	IA	157	DMX	Bureau	IL	011	DVN
Ringgold	IA	159	DMX	Carroll	IL	015	DVN
Sac	IA	161	DMX	Hancock	IL	067	DVN
Story	IA	169	DMX	Henderson	IL	071	DVN
Tama	IA	171	DMX	Henry	IL	073	DVN
Taylor	IA	173	DMX	Jo Daviess	IL	085	DVN
Union	IA	175	DMX	McDonough	IL	109	DVN
Wapello	IA	179	DMX	Mercer	IL	131	DVN
Warren	IA	181	DMX	Putnam	IL	155	DVN
Wayne	IA	185	DMX	Rock Island	IL	161	DVN
Webster	IA	187	DMX	Stephenson	IL	177	DVN
Winnebago	IA	189	DMX	Warren	IL	187	DVN
Worth	IA	195	DMX	Whiteside	IL	195	DVN
Wright	IA	197	DMX	Clark	MO	045	DVN
				Scotland	MO	199	DVN
Bay	MI	017	DTX	Atchison	KS	005	EAX
Genesee	MI	049	DTX	Doniphan	KS	043	EAX
Huron	MI	063	DTX	Johnson	KS	091	EAX
Lapeer	MI	087	DTX	Leavenworth	KS	103	EAX
Lenawee	MI	091	DTX	Linn	KS	107	EAX
Livingston	MI	093	DTX	Miami	KS	121	EAX
Macomb	MI	099	DTX	Wyandotte	KS	209	EAX
Midland	MI	111	DTX	Adair	MO	001	EAX
Monroe	MI	115	DTX	Andrew	MO	003	EAX
Oakland	MI	125	DTX	Atchison	MO	005	EAX
Saginaw	MI	145	DTX	Bates	MO	013	EAX
St. Clair	MI	147	DTX	Buchanan	MO	021	EAX
Sanilac	MI	151	DTX	Caldwell	MO	025	EAX
Shiawassee	MI	155	DTX	Carroll	MO	033	EAX
Tuscola	MI	157	DTX	Cass	MO	037	EAX
Washtenaw	MI	161	DTX	Chariton	MO	041	EAX
Wayne	MI	163	DTX	Clay	MO	047	EAX
				Clinton	MO	049	EAX
Benton	IA	011	DVN				

Cooper	MO	053	EAX	Ramsey	ND	071	FGF
Daviess	MO	061	EAX	Ransom	ND	073	FGF
DeKalb	MO	063	EAX	Richland	ND	077	FGF
Gentry	MO	075	EAX	Sargent	ND	081	FGF
Grundy	MO	079	EAX	Steele	ND	091	FGF
Harrison	MO	081	EAX	Towner	ND	095	FGF
Henry	MO	083	EAX	Traill	ND	097	FGF
Holt	MO	087	EAX	Walsh	ND	099	FGF
Howard	MO	089	EAX				
Jackson	MO	095	EAX	Buena Vista	IA	021	FSD
Johnson	MO	101	EAX	Cherokee	IA	035	FSD
Lafayette	MO	107	EAX	Clay	IA	041	FSD
Linn	MO	115	EAX	Dickinson	IA	059	FSD
Livingston	MO	117	EAX	Ida	IA	093	FSD
Macon	MO	121	EAX	Lyon	IA	119	FSD
Mercer	MO	129	EAX	O'Brien	IA	141	FSD
Nodaway	MO	147	EAX	Osceola	IA	143	FSD
Pettis	MO	159	EAX	Plymouth	IA	149	FSD
Platte	MO	165	EAX	Sioux	IA	167	FSD
Putnam	MO	171	EAX	Woodbury	IA	193	FSD
Randolph	MO	175	EAX	Cottonwood	MN	033	FSD
Ray	MO	177	EAX	Jackson	MN	063	FSD
Saline	MO	195	EAX	Lincoln	MN	081	FSD
Schuyler	MO	197	EAX	Lyon	MN	083	FSD
Sullivan	MO	211	EAX	Murray	MN	101	FSD
Worth	MO	227	EAX	Nobles	MN	105	FSD
				Pipestone	MN	117	FSD
Becker	MN	005	FGF	Rock	MN	133	FSD
Beltrami	MN	007	FGF	Dakota	NE	043	FSD
Clay	MN	027	FGF	Dixon	NE	051	FSD
Clearwater	MN	029	FGF	Aurora	SD	003	FSD
Grant	MN	051	FGF	Beadle	SD	005	FSD
Hubbard	MN	057	FGF	Bon Homme	SD	009	FSD
Kittson	MN	069	FGF	Brookings	SD	011	FSD
Lake of the Woods	MN	077	FGF	Brule	SD	015	FSD
Mahnomen	MN	087	FGF	Charles Mix	SD	023	FSD
Marshall	MN	089	FGF	Clay	SD	027	FSD
Norman	MN	107	FGF	Davison	SD	035	FSD
Otter Tail	MN	111	FGF	Douglas	SD	043	FSD
Pennington	MN	113	FGF	Gregory	SD	053	FSD
Polk	MN	119	FGF	Hanson	SD	061	FSD
Red Lake	MN	125	FGF	Hutchinson	SD	067	FSD
Roseau	MN	135	FGF	Jerauld	SD	073	FSD
Wadena	MN	159	FGF	Kingsbury	SD	077	FSD
Wilkin	MN	167	FGF	Lake	SD	079	FSD
Barnes	ND	003	FGF	Lincoln	SD	083	FSD
Benson	ND	005	FGF	McCook	SD	087	FSD
Cass	ND	017	FGF	Miner	SD	097	FSD
Cavalier	ND	019	FGF	Minnehaha	SD	099	FSD
Eddy	ND	027	FGF	Moody	SD	101	FSD
Grand Forks	ND	035	FGF	Sanborn	SD	111	FSD
Griggs	ND	039	FGF	Turner	SD	125	FSD
Nelson	ND	063	FGF	Union	SD	127	FSD
Pembina	ND	067	FGF	Yankton	SD	135	FSD

Jewell	KS	089	GID	Cheyenne	CO	017	GLD
Mitchell	KS	123	GID	Kit Carson	CO	063	GLD
Osborne	KS	141	GID	Yuma	CO	125	GLD
Phillips	KS	147	GID	Cheyenne	KS	023	GLD
Rooks	KS	163	GID	Decatur	KS	039	GLD
Smith	KS	183	GID	Gove	KS	063	GLD
Adams	NE	001	GID	Graham	KS	065	GLD
Buffalo	NE	019	GID	Greeley	KS	071	GLD
Clay	NE	035	GID	Logan	KS	109	GLD
Dawson	NE	047	GID	Norton	KS	137	GLD
Fillmore	NE	059	GID	Rawlins	KS	153	GLD
Franklin	NE	061	GID	Sheridan	KS	179	GLD
Furnas	NE	065	GID	Sherman	KS	181	GLD
Gosper	NE	073	GID	Thomas	KS	193	GLD
Greeley	NE	077	GID	Wallace	KS	199	GLD
Hall	NE	079	GID	Wichita	KS	203	GLD
Hamilton	NE	081	GID	Dundy	NE	057	GLD
Harlan	NE	083	GID	Hitchcock	NE	087	GLD
Howard	NE	093	GID	Red Willow	NE	145	GLD
Kearney	NE	099	GID				
Merrick	NE	121	GID	Brown	WI	009	GRB
Nance	NE	125	GID	Calumet	WI	015	GRB
Nuckolls	NE	129	GID	Door	WI	029	GRB
Phelps	NE	137	GID	Florence	WI	037	GRB
Polk	NE	143	GID	Forest	WI	041	GRB
Sherman	NE	163	GID	Kewaunee	WI	061	GRB
Thayer	NE	169	GID	Langlade	WI	067	GRB
Valley	NE	175	GID	Lincoln	WI	069	GRB
Webster	NE	181	GID	Manitowoc	WI	071	GRB
York	NE	185	GID	Marathon	WI	073	GRB
				Marinette	WI	075	GRB
Archuleta	CO	007	GJT	Menominee	WI	078	GRB
Chaffee	CO	015	GJT	Oconto	WI	083	GRB
Delta	CO	029	GJT	Oneida	WI	085	GRB
Dolores	CO	033	GJT	Outagamie	WI	087	GRB
Eagle	CO	037	GJT	Portage	WI	097	GRB
Garfield	CO	045	GJT	Shawano	WI	115	GRB
Gunnison	CO	051	GJT	Vilas	WI	125	GRB
Hinsdale	CO	053	GJT	Waupaca	WI	135	GRB
La Plata	CO	067	GJT	Waushara	WI	137	GRB
Mesa	CO	077	GJT	Winnebago	WI	139	GRB
Moffat	CO	081	GJT	Wood	WI	141	GRB
Montezuma	CO	083	GJT				
Montrose	CO	085	GJT	Allegan	MI	005	GRR
Ouray	CO	091	GJT	Barry	MI	015	GRR
Pitkin	CO	097	GJT	Calhoun	MI	025	GRR
Rio Blanco	CO	103	GJT	Clare	MI	035	GRR
Routt	CO	107	GJT	Clinton	MI	037	GRR
San Juan	CO	111	GJT	Eaton	MI	045	GRR
San Miguel	CO	113	GJT	Gratiot	MI	057	GRR
Daggett	UT	009	GJT	Ingham	MI	065	GRR
Grand	UT	019	GJT	Ionia	MI	067	GRR
San Juan	UT	037	GJT	Isabella	MI	073	GRR
Uintah	UT	047	GJT	Jackson	MI	075	GRR

Kalamazoo	MI	077	GRR	Kenton	KY	117	ILN
Kent	MI	081	GRR	Lewis	KY	135	ILN
Lake	MI	085	GRR	Mason	KY	161	ILN
Mason	MI	105	GRR	Owen	KY	187	ILN
Mecosta	MI	107	GRR	Pendleton	KY	191	ILN
Montcalm	MI	117	GRR	Robertson	KY	201	ILN
Muskegon	MI	121	GRR	Adams	OH	001	ILN
Newaygo	MI	123	GRR	Auglaize	OH	011	ILN
Oceana	MI	127	GRR	Brown	OH	015	ILN
Osceola	MI	133	GRR	Butler	OH	017	ILN
Ottawa	MI	139	GRR	Champaign	OH	021	ILN
Van Buren	MI	159	GRR	Clark	OH	023	ILN
				Clermont	OH	025	ILN
Allen	KS	001	ICT	Clinton	OH	027	ILN
Barton	KS	009	ICT	Darke	OH	037	ILN
Butler	KS	015	ICT	Delaware	OH	041	ILN
Chase	KS	017	ICT	Fairfield	OH	045	ILN
Chautauqua	KS	019	ICT	Fayette	OH	047	ILN
Cowley	KS	035	ICT	Franklin	OH	049	ILN
Elk	KS	049	ICT	Greene	OH	057	ILN
Ellsworth	KS	053	ICT	Hamilton	OH	061	ILN
Greenwood	KS	073	ICT	Hardin	OH	065	ILN
Harper	KS	077	ICT	Highland	OH	071	ILN
Harvey	KS	079	ICT	Hocking	OH	073	ILN
Kingman	KS	095	ICT	Licking	OH	089	ILN
Labette	KS	099	ICT	Logan	OH	091	ILN
Lincoln	KS	105	ICT	Madison	OH	097	ILN
McPherson	KS	113	ICT	Mercer	OH	107	ILN
Marion	KS	115	ICT	Miami	OH	109	ILN
Montgomery	KS	125	ICT	Montgomery	OH	113	ILN
Neosho	KS	133	ICT	Pickaway	OH	129	ILN
Reno	KS	155	ICT	Pike	OH	131	ILN
Rice	KS	159	ICT	Preble	OH	135	ILN
Russell	KS	167	ICT	Ross	OH	141	ILN
Saline	KS	169	ICT	Scioto	OH	145	ILN
Sedgwick	KS	173	ICT	Shelby	OH	149	ILN
Sumner	KS	191	ICT	Union	OH	159	ILN
Wilson	KS	205	ICT	Warren	OH	165	ILN
Woodson	KS	207	ICT				
				Cass	IL	017	ILX
Dearborn	IN	029	ILN	Champaign	IL	019	ILX
Fayette	IN	041	ILN	Christian	IL	021	ILX
Franklin	IN	047	ILN	Clark	IL	023	ILX
Ohio	IN	115	ILN	Clay	IL	025	ILX
Ripley	IN	137	ILN	Coles	IL	029	ILX
Switzerland	IN	155	ILN	Crawford	IL	033	ILX
Union	IN	161	ILN	Cumberland	IL	035	ILX
Wayne	IN	177	ILN	DeWitt	IL	039	ILX
Boone	KY	015	ILN	Douglas	IL	041	ILX
Bracken	KY	023	ILN	Edgar	IL	045	ILX
Campbell	KY	037	ILN	Effingham	IL	049	ILX
Carroll	KY	041	ILN	Fulton	IL	057	ILX
Gallatin	KY	077	ILN	Jasper	IL	079	ILX
Grant	KY	081	ILN	Knox	IL	095	ILX

Lawrence	IL	101	ILX	Sullivan	IN	153	IND
Logan	IL	107	ILX	Tippecanoe	IN	157	IND
McLean	IL	113	ILX	Tipton	IN	159	IND
Macon	IL	115	ILX	Vermillion	IN	165	IND
Marshall	IL	123	ILX	Vigo	IN	167	IND
Mason	IL	125	ILX	Warren	IN	171	IND
Menard	IL	129	ILX				
Morgan	IL	137	ILX	Adams	IN	001	IWX
Moultrie	IL	139	ILX	Allen	IN	003	IWX
Peoria	IL	143	ILX	Blackford	IN	009	IWX
Piatt	IL	147	ILX	Cass	IN	017	IWX
Richland	IL	159	ILX	DeKalb	IN	033	IWX
Sangamon	IL	167	ILX	Elkhart	IN	039	IWX
Schuyler	IL	169	ILX	Fulton	IN	049	IWX
Scott	IL	171	ILX	Grant	IN	053	IWX
Shelby	IL	173	ILX	Huntington	IN	069	IWX
Stark	IL	175	ILX	Jay	IN	075	IWX
Tazewell	IL	179	ILX	Kosciusko	IN	085	IWX
Vermilion	IL	183	ILX	Lagrange	IN	087	IWX
Woodford	IL	203	ILX	La Porte	IN	091	IWX
				Marshall	IN	099	IWX
Bartholomew	IN	005	IND	Miami	IN	103	IWX
Boone	IN	011	IND	Noble	IN	113	IWX
Brown	IN	013	IND	Pulaski	IN	131	IWX
Carroll	IN	015	IND	St. Joseph	IN	141	IWX
Clay	IN	021	IND	Starke	IN	149	IWX
Clinton	IN	023	IND	Steuben	IN	151	IWX
Daviess	IN	027	IND	Wabash	IN	169	IWX
Decatur	IN	031	IND	Wells	IN	179	IWX
Delaware	IN	035	IND	White	IN	181	IWX
Fountain	IN	045	IND	Whitley	IN	183	IWX
Greene	IN	055	IND	Berrien	MI	021	IWX
Hamilton	IN	057	IND	Branch	MI	023	IWX
Hancock	IN	059	IND	Cass	MI	027	IWX
Hendricks	IN	063	IND	Hillsdale	MI	059	IWX
Henry	IN	065	IND	St. Joseph	MI	149	IWX
Howard	IN	067	IND	Allen	OH	003	IWX
Jackson	IN	071	IND	Defiance	OH	039	IWX
Jennings	IN	079	IND	Fulton	OH	051	IWX
Johnson	IN	081	IND	Henry	OH	069	IWX
Knox	IN	083	IND	Paulding	OH	125	IWX
Lawrence	IN	093	IND	Putnam	OH	137	IWX
Madison	IN	095	IND	VanWert	OH	161	IWX
Marion	IN	097	IND	Williams	OH	171	IWX
Martin	IN	101	IND				
Monroe	IN	105	IND	Bath	KY	011	JKL
Montgomery	IN	107	IND	Bell	KY	013	JKL
Morgan	IN	109	IND	Breathitt	KY	025	JKL
Owen	IN	119	IND	Clay	KY	051	JKL
Parke	IN	121	IND	Elliott	KY	063	JKL
Putnam	IN	133	IND	Estill	KY	065	JKL
Randolph	IN	135	IND	Fleming	KY	069	JKL
Rush	IN	139	IND	Floyd	KY	071	JKL
Shelby	IN	145	IND	Harlan	KY	095	JKL

Jackson	KY	109	JKL	Dubois	IN	037	LMK
Johnson	KY	115	JKL	Floyd	IN	043	LMK
Knott	KY	119	JKL	Harrison	IN	061	LMK
Knox	KY	121	JKL	Jefferson	IN	077	LMK
Laurel	KY	125	JKL	Orange	IN	117	LMK
Lee	KY	129	JKL	Perry	IN	123	LMK
Leslie	KY	131	JKL	Scott	IN	143	LMK
Letcher	KY	133	JKL	Washington	IN	175	LMK
McCreary	KY	147	JKL	Adair	KY	001	LMK
Magoffin	KY	153	JKL	Allen	KY	003	LMK
Martin	KY	159	JKL	Anderson	KY	005	LMK
Menifee	KY	165	JKL	Barren	KY	009	LMK
Montgomery	KY	173	JKL	Bourbon	KY	017	LMK
Morgan	KY	175	JKL	Boyle	KY	021	LMK
Owsley	KY	189	JKL	Breckinridge	KY	027	LMK
Perry	KY	193	JKL	Bullitt	KY	029	LMK
Pike	KY	195	JKL	Butler	KY	031	LMK
Powell	KY	197	JKL	Casey	KY	045	LMK
Pulaski	KY	199	JKL	Clark	KY	049	LMK
Rockcastle	KY	203	JKL	Clinton	KY	053	LMK
Rowan	KY	205	JKL	Cumberland	KY	057	LMK
Wayne	KY	231	JKL	Edmonson	KY	061	LMK
Whitley	KY	235	JKL	Fayette	KY	067	LMK
Wolfe	KY	237	JKL	Franklin	KY	073	LMK
				Garrard	KY	079	LMK
Arthur	NE	005	LBF	Grayson	KY	085	LMK
Blaine	NE	009	LBF	Green	KY	087	LMK
Boyd	NE	015	LBF	Hancock	KY	091	LMK
Brown	NE	017	LBF	Hardin	KY	093	LMK
Chase	NE	029	LBF	Harrison	KY	097	LMK
Cherry	NE	031	LBF	Hart	KY	099	LMK
Custer	NE	041	LBF	Henry	KY	103	LMK
Deuel	NE	049	LBF	Jefferson	KY	111	LMK
Frontier	NE	063	LBF	Jessamine	KY	113	LMK
Garden	NE	069	LBF	Larue	KY	123	LMK
Garfield	NE	071	LBF	Lincoln	KY	137	LMK
Grant	NE	075	LBF	Logan	KY	141	LMK
Hayes	NE	085	LBF	Madison	KY	151	LMK
Holt	NE	089	LBF	Marion	KY	155	LMK
Hooker	NE	091	LBF	Meade	KY	163	LMK
Keith	NE	101	LBF	Mercer	KY	167	LMK
Keya Paha	NE	103	LBF	Metcalfe	KY	169	LMK
Lincoln	NE	111	LBF	Monroe	KY	171	LMK
Logan	NE	113	LBF	Nelson	KY	179	LMK
Loup	NE	115	LBF	Nicholas	KY	181	LMK
McPherson	NE	117	LBF	Ohio	KY	183	LMK
Perkins	NE	135	LBF	Oldham	KY	185	LMK
Rock	NE	149	LBF	Russell	KY	207	LMK
Sheridan	NE	161	LBF	Scott	KY	209	LMK
Thomas	NE	171	LBF	Shelby	KY	211	LMK
Wheeler	NE	183	LBF	Simpson	KY	213	LMK
				Spencer	KY	215	LMK
Clark	IN	019	LMK	Taylor	KY	217	LMK
Crawford	IN	025	LMK	Trimble	KY	223	LMK

Warren	KY	227	LMK	Knox	MO	103	LSX	
Washington	KY	229	LMK	Lewis	MO	111	LSX	
Woodford	KY	239	LMK	Lincoln	MO	113	LSX	
				Madison	MO	123	LSX	
Boone	IL	007	LOT	Marion	MO	127	LSX	
Cook	IL	031	LOT	Moniteau	MO	135	LSX	
DeKalb	IL	037	LOT	Monroe	MO	137	LSX	
Du Page	IL	043	LOT	Montgomery	MO	139	LSX	
Ford	IL	053	LOT	Osage	MO	151	LSX	
Grundy	IL	063	LOT	Pike	MO	163	LSX	
Iroquois	IL	075	LOT	Ralls	MO	173	LSX	
Kane	IL	089	LOT	Reynolds	MO	179	LSX	
Kankakee	IL	091	LOT	St. Charles	MO	183	LSX	
Kendall	IL	093	LOT	Ste. Genevieve	MO	186	LSX	LSX
Lake	IL	097	LOT	St. Francois	MO	187	LSX	
La Salle	IL	099	LOT	St. Louis	MO	189	LSX	
Lee	IL	103	LOT	Shelby	MO	205	LSX	
Livingston	IL	105	LOT	Warren	MO	219	LSX	
McHenry	IL	111	LOT	Washington	MO	221	LSX	
Ogle	IL	141	LOT	St. Louis City	MO	510	LSX	
Will	IL	197	LOT					
Winnebago	IL	201	LOT	Columbia	WI	021	MKX	
Benton	IN	007	LOT	Dane	WI	025	MKX	
Jasper	IN	073	LOT	Dodge	WI	027	MKX	
Lake	IN	089	LOT	Fond du Lac	WI	039	MKX	
Newton	IN	111	LOT	Green	WI	045	MKX	
Porter	IN	127	LOT	Green Lake	WI	047	MKX	
				Iowa	WI	049	MKX	
Adams	IL	001	LSX	Jefferson	WI	055	MKX	
Bond	IL	005	LSX	Kenosha	WI	059	MKX	
Brown	IL	009	LSX	Lafayette	WI	065	MKX	
Calhoun	IL	013	LSX	Marquette	WI	077	MKX	
Clinton	IL	027	LSX	Milwaukee	WI	079	MKX	
Fayette	IL	051	LSX	Ozaukee	WI	089	MKX	
Greene	IL	061	LSX	Racine	WI	101	MKX	
Jersey	IL	083	LSX	Rock	WI	105	MKX	
Macoupin	IL	117	LSX	Sauk	WI	111	MKX	
Madison	IL	119	LSX	Sheboygan	WI	117	MKX	
Marion	IL	121	LSX	Walworth	WI	127	MKX	
Monroe	IL	133	LSX	Washington	WI	131	MKX	
Montgomery	IL	135	LSX	Waukesha	WI	133	MKX	
Pike	IL	149	LSX					
Randolph	IL	157	LSX	Anoka	MN	003	MPX	
St. Clair	IL	163	LSX	Benton	MN	009	MPX	
Washington	IL	189	LSX	Blue Earth	MN	013	MPX	
Audrain	MO	007	LSX	Brown	MN	015	MPX	
Boone	MO	019	LSX	Carver	MN	019	MPX	
Callaway	MO	027	LSX	Chippewa	MN	023	MPX	
Cole	MO	051	LSX	Chisago	MN	025	MPX	
Crawford	MO	055	LSX	Dakota	MN	037	MPX	
Franklin	MO	071	LSX	Douglas	MN	041	MPX	
Gasconade	MO	073	LSX	Faribault	MN	043	MPX	
Iron	MO	093	LSX	Freeborn	MN	047	MPX	
Jefferson	MO	099	LSX	Goodhue	MN	049	MPX	

Hennepin	MN	053	MPX	Fremont	IA	071	OAX
Isanti	MN	059	MPX	Harrison	IA	085	OAX
Kanabec	MN	065	MPX	Mills	IA	129	OAX
Kandiyohi	MN	067	MPX	Monona	IA	133	OAX
Lacqui Parle	MN	073	MPX	Montgomery	IA	137	OAX
Le Sueur	MN	079	MPX	Page	IA	145	OAX
McLeod	MN	085	MPX	Pottawattamie	IA	155	OAX
Martin	MN	091	MPX	Shelby	IA	165	OAX
Meeker	MN	093	MPX	Antelope	NE	003	OAX
Mille Lacs	MN	095	MPX	Boone	NE	011	OAX
Morrison	MN	097	MPX	Burt	NE	021	OAX
Nicollet	MN	103	MPX	Butler	NE	023	OAX
Pope	MN	121	MPX	Cass	NE	025	OAX
Ramsey	MN	123	MPX	Cedar	NE	027	OAX
Redwood	MN	127	MPX	Colfax	NE	037	OAX
Renville	MN	129	MPX	Cuming	NE	039	OAX
Rice	MN	131	MPX	Dodge	NE	053	OAX
Scott	MN	139	MPX	Douglas	NE	055	OAX
Sherburne	MN	141	MPX	Gage	NE	067	OAX
Sibley	MN	143	MPX	Jefferson	NE	095	OAX
Stearns	MN	145	MPX	Johnson	NE	097	OAX
Steele	MN	147	MPX	Knox	NE	107	OAX
Stevens	MN	149	MPX	Lancaster	NE	109	OAX
Swift	MN	151	MPX	Madison	NE	119	OAX
Todd	MN	153	MPX	Nemaha	NE	127	OAX
Waseca	MN	161	MPX	Otoe	NE	131	OAX
Washington	MN	163	MPX	Pawnee	NE	133	OAX
Watonwan	MN	165	MPX	Pierce	NE	139	OAX
Wright	MN	171	MPX	Platte	NE	141	OAX
Yellow Medicine	MN	173	MPX	Richardson	NE	147	OAX
Barron	WI	005	MPX	Saline	NE	151	OAX
Chippewa	WI	017	MPX	Sarpy	NE	153	OAX
Dunn	WI	033	MPX	Saunders	NE	155	OAX
Eau Claire	WI	035	MPX	Seward	NE	159	OAX
Pepin	WI	091	MPX	Stanton	NE	167	OAX
Pierce	WI	093	MPX	Thurston	NE	173	OAX
Polk	WI	095	MPX	Washington	NE	177	OAX
Rusk	WI	107	MPX	Wayne	NE	179	OAX
St. Croix	WI	109	MPX				
Alger	MI	003	MQT	Alexander	IL	003	PAH
Baraga	MI	013	MQT	Edwards	IL	047	PAH
Delta	MI	041	MQT	Franklin	IL	055	PAH
Dickinson	MI	043	MQT	Gallatin	IL	059	PAH
Gogebic	MI	053	MQT	Hamilton	IL	065	PAH
Houghton	MI	061	MQT	Hardin	IL	069	PAH
Iron	MI	071	MQT	Jackson	IL	077	PAH
Keweenaw	MI	083	MQT	Jefferson	IL	081	PAH
Luce	MI	095	MQT	Johnson	IL	087	PAH
Marquette	MI	103	MQT	Massac	IL	127	PAH
Menominee	MI	109	MQT	Perry	IL	145	PAH
Ontonagon	MI	131	MQT	Pope	IL	151	PAH
Schoolcraft	MI	153	MQT	Pulaski	IL	153	PAH
				Saline	IL	165	PAH
				Union	IL	181	PAH

Wabash	IL	185	PAH	Kiowa	CO	061	PUB
Wayne	IL	191	PAH	Lake	CO	065	PUB
White	IL	193	PAH	Las Animas	CO	071	PUB
Williamson	IL	199	PAH	Mineral	CO	079	PUB
Gibson	IN	051	PAH	Otero	CO	089	PUB
Pike	IN	125	PAH	Prowers	CO	099	PUB
Posey	IN	129	PAH	Pueblo	CO	101	PUB
Spencer	IN	147	PAH	Rio Grande	CO	105	PUB
Vanderburgh	IN	163	PAH	Saguache	CO	109	PUB
Warrick	IN	173	PAH	Teller	CO	119	PUB
Ballard	KY	007	PAH				
Caldwell	KY	033	PAH	Yellowstone Natl Pk	MT	113	RIW
Calloway	KY	035	PAH	Big Horn	WY	003	RIW
Carlisle	KY	039	PAH	Fremont	WY	013	RIW
Christian	KY	047	PAH	Hot Springs	WY	017	RIW
Crittenden	KY	055	PAH	Johnson	WY	019	RIW
Daviess	KY	059	PAH	Lincoln	WY	023	RIW
Fulton	KY	075	PAH	Natrona	WY	025	RIW
Graves	KY	083	PAH	Park	WY	029	RIW
Henderson	KY	101	PAH	Sublette	WY	035	RIW
Hickman	KY	105	PAH	Sweetwater	WY	037	RIW
Hopkins	KY	107	PAH	Teton	WY	039	RIW
Livingston	KY	139	PAH	Washakie	WY	043	RIW
Lyon	KY	143	PAH				
McCracken	KY	145	PAH	Bourbon	KS	011	SGF
McLean	KY	149	PAH	Cherokee	KS	021	SGF
Marshall	KY	157	PAH	Crawford	KS	037	SGF
Muhlenberg	KY	177	PAH	Barry	MO	009	SGF
Todd	KY	219	PAH	Barton	MO	011	SGF
Trigg	KY	221	PAH	Benton	MO	015	SGF
Union	KY	225	PAH	Camden	MO	029	SGF
Webster	KY	233	PAH	Cedar	MO	039	SGF
Bollinger	MO	017	PAH	Christian	MO	043	SGF
Butler	MO	023	PAH	Dade	MO	057	SGF
Cape Girardeau	MO	031	PAH	Dallas	MO	059	SGF
Carter	MO	035	PAH	Dent	MO	065	SGF
Mississippi	MO	133	PAH	Douglas	MO	067	SGF
NewMadrid	MO	143	PAH	Greene	MO	077	SGF
Perry	MO	157	PAH	Hickory	MO	085	SGF
Ripley	MO	181	PAH	Howell	MO	091	SGF
Scott	MO	201	PAH	Jasper	MO	097	SGF
Stoddard	MO	207	PAH	Laclede	MO	105	SGF
Wayne	MO	223	PAH	Lawrence	MO	109	SGF
				McDonald	MO	119	SGF
Alamosa	CO	003	PUB	Maries	MO	125	SGF
Baca	CO	009	PUB	Miller	MO	131	SGF
Bent	CO	011	PUB	Morgan	MO	141	SGF
Conejos	CO	021	PUB	Newton	MO	145	SGF
Costilla	CO	023	PUB	Oregon	MO	149	SGF
Crowley	CO	025	PUB	Ozark	MO	153	SGF
Custer	CO	027	PUB	Phelps	MO	161	SGF
EIPaso	CO	041	PUB	Polk	MO	167	SGF
Fremont	CO	043	PUB	Pulaski	MO	169	SGF
Huerfano	CO	055	PUB	St. Clair	MO	185	SGF

Shannon	MO	203	SGF	Republic	KS	157	TOP
Stone	MO	209	SGF	Riley	KS	161	TOP
Taney	MO	213	SGF	Shawnee	KS	177	TOP
Texas	MO	215	SGF	Wabaunsee	KS	197	TOP
				Washington	KS	201	TOP
Vernon	MO	217	SGF				
Webster	MO	225	SGF	Bennett	SD	007	UNR
Wright	MO	229	SGF	Butte	SD	019	UNR
				Custer	SD	033	UNR
Anderson	KS	003	TOP	Fall River	SD	047	UNR
Brown	KS	013	TOP	Haakon	SD	055	UNR
Clay	KS	027	TOP	Harding	SD	063	UNR
Cloud	KS	029	TOP	Jackson	SD	071	UNR
Coffey	KS	031	TOP	Lawrence	SD	081	UNR
Dickinson	KS	041	TOP	Meade	SD	093	UNR
Douglas	KS	045	TOP	Mellette	SD	095	UNR
Franklin	KS	059	TOP	Pennington	SD	103	UNR
Geary	KS	061	TOP	Perkins	SD	105	UNR
Jackson	KS	085	TOP	Shannon	SD	113	UNR
Jefferson	KS	087	TOP	Todd	SD	121	UNR
Lyon	KS	111	TOP	Tripp	SD	123	UNR
Marshall	KS	117	TOP	Ziebach	SD	137	UNR
Morris	KS	127	TOP	Campbell	WY	005	UNR
Nemaha	KS	131	TOP	Crook	WY	011	UNR
Osage	KS	139	TOP	Weston	WY	045	UNR
Ottawa	KS	143	TOP				
Pottawatomie	KS	149	TOP				

5.1.2 Listing by Eastern Region WFOs

<u>county name</u>	<u>state code</u>	<u>FIPS</u>	<u>primary wfo</u>				
Dorchester	MD	019	AKQ	Chesterfield	VA	041	AKQ
Somerset	MD	039	AKQ	Cumberland	VA	049	AKQ
Wicomico	MD	045	AKQ	Dinwiddie	VA	053	AKQ
Worcester	MD	047	AKQ	Essex	VA	057	AKQ
Bertie	NC	015	AKQ	Fluvanna	VA	065	AKQ
Camden	NC	029	AKQ	Gloucester	VA	073	AKQ
Chowan	NC	041	AKQ	Goochland	VA	075	AKQ
Currituck	NC	053	AKQ	Greensville	VA	081	AKQ
Gates	NC	073	AKQ	Hanover	VA	085	AKQ
Hertford	NC	091	AKQ	Henrico	VA	087	AKQ
Northampton	NC	131	AKQ	Isle of Wight	VA	093	AKQ
Pasquotank	NC	139	AKQ	James City	VA	095	AKQ
Perquimans	NC	143	AKQ	King and Queen	VA	097	AKQ
Accomack	VA	001	AKQ	King William	VA	101	AKQ
Amelia	VA	007	AKQ	Lancaster	VA	103	AKQ
Brunswick	VA	025	AKQ	Louisa	VA	109	AKQ
Caroline	VA	033	AKQ	Lunenburg	VA	111	AKQ
Charles City	VA	036	AKQ	Mathews	VA	115	AKQ
				Mecklenburg	VA	117	AKQ
				Middlesex	VA	119	AKQ

New Kent	VA	127	AKQ	Cortland	NY	023	BGM
Northampton	VA	131	AKQ	Delaware	NY	025	BGM
Northumberland	VA	133	AKQ	Madison	NY	053	BGM
Nottoway	VA	135	AKQ	Oneida	NY	065	BGM
Powhatan	VA	145	AKQ	Onondaga	NY	067	BGM
Prince Edward	VA	147	AKQ	Otsego	NY	077	BGM
Prince George	VA	149	AKQ	Schuyler	NY	097	BGM
Richmond	VA	159	AKQ	Seneca	NY	099	BGM
Southampton	VA	175	AKQ	Steuben	NY	101	BGM
Surry	VA	181	AKQ	Sullivan	NY	105	BGM
Sussex	VA	183	AKQ	Tioga	NY	107	BGM
				Tompkins	NY	109	BGM
Westmoreland	VA	193	AKQ	Yates	NY	123	BGM
York	VA	199	AKQ	Bradford	PA	015	BGM
City of Chesapeake	VA	550	AKQ	Lackawanna	PA	069	BGM
City of Colonial Hts	VA	570	AKQ	Luzerne	PA	079	BGM
City of Emporia	VA	595	AKQ	Pike	PA	103	BGM
City of Franklin	VA	620	AKQ	Susquehanna	PA	115	BGM
City of Hampton	VA	650	AKQ	Wayne	PA	127	BGM
City of Hopewell	VA	670	AKQ	Wyoming	PA	131	BGM
City of Newport News	VA	700	AKQ				
City of Norfolk	VA	710	AKQ	Hartford	CT	003	BOX
City of Petersburg	VA	730	AKQ	Tolland	CT	013	BOX
City of Poquoson	VA	735	AKQ	Windham	CT	015	BOX
City of Portsmouth	VA	740	AKQ	Barnstable	MA	001	BOX
City of Richmond	VA	760	AKQ	Bristol	MA	005	BOX
City of Suffolk	VA	800	AKQ	Dukes	MA	007	BOX
City of Virginia Bch	VA	810	AKQ	Essex	MA	009	BOX
City of Williamsburg	VA	830	AKQ	Franklin	MA	011	BOX
				Hampden	MA	013	BOX
Litchfield	CT	005	ALY	Hampshire	MA	015	BOX
Berkshire	MA	003	ALY	Middlesex	MA	017	BOX
Albany	NY	001	ALY	Nantucket	MA	019	BOX
Columbia	NY	021	ALY	Norfolk	MA	021	BOX
Dutchess	NY	027	ALY	Plymouth	MA	023	BOX
Fulton	NY	035	ALY	Suffolk	MA	025	BOX
Greene	NY	039	ALY	Worcester	MA	027	BOX
Hamilton	NY	041	ALY	Cheshire	NH	005	BOX
Herkimer	NY	043	ALY	Hillsborough	NH	011	BOX
Montgomery	NY	057	ALY	Bristol	RI	001	BOX
Rensselaer	NY	083	ALY	Kent	RI	003	BOX
Saratoga	NY	091	ALY	Newport	RI	005	BOX
Schenectady	NY	093	ALY	Providence	RI	007	BOX
Schoharie	NY	095	ALY	Washington	RI	009	BOX
Ulster	NY	111	ALY				
Warren	NY	113	ALY	Clinton	NY	019	BTV
Washington	NY	115	ALY	Essex	NY	031	BTV
Bennington	VT	003	ALY	Franklin	NY	033	BTV
Windham	VT	025	ALY	St. Lawrence	NY	089	BTV
				Addison	VT	001	BTV
Broome	NY	007	BGM	Caledonia	VT	005	BTV
Cayuga	NY	011	BGM	Chittenden	VT	007	BTV
Chemung	NY	015	BGM	Essex	VT	009	BTV
Chenango	NY	017	BGM	Franklin	VT	011	BTV

GrandIsle	VT	013	BTV	Crawford	OH	033	CLE
Lamoille	VT	015	BTV	Cuyahoga	OH	035	CLE
Orange	VT	017	BTV	Erie	OH	043	CLE
Orleans	VT	019	BTV	Geauga	OH	055	CLE
Rutland	VT	021	BTV	Hancock	OH	063	CLE
Washington	VT	023	BTV	Holmes	OH	075	CLE
Windsor	VT	027	BTV	Huron	OH	077	CLE
				Knox	OH	083	CLE
				Lake	OH	085	CLE
Allegany	NY	003	BUF	Lorain	OH	093	CLE
Cattaraugus	NY	009	BUF	Lucas	OH	095	CLE
Chautauqua	NY	013	BUF	Mahoning	OH	099	CLE
Erie	NY	029	BUF	Marion	OH	101	CLE
Genesee	NY	037	BUF	Medina	OH	103	CLE
Jefferson	NY	045	BUF	Morrow	OH	117	CLE
Lewis	NY	049	BUF	Ottawa	OH	123	CLE
Livingston	NY	051	BUF	Portage	OH	133	CLE
Monroe	NY	055	BUF	Richland	OH	139	CLE
Niagara	NY	063	BUF	Sandusky	OH	143	CLE
Ontario	NY	069	BUF	Seneca	OH	147	CLE
Orleans	NY	073	BUF	Stark	OH	151	CLE
Oswego	NY	075	BUF	Summit	OH	153	CLE
Wayne	NY	117	BUF	Trumbull	OH	155	CLE
Wyoming	NY	121	BUF	Wayne	OH	169	CLE
				Wood	OH	173	CLE
Aroostook	ME	003	CAR	Wyandot	OH	175	CLE
Hancock	ME	009	CAR	Crawford	PA	039	CLE
Penobscot	ME	019	CAR	Erie	PA	049	CLE
Piscataquis	ME	021	CAR				
Somerset	ME	025	CAR	Adams	PA	001	CTP
Washington	ME	029	CAR	Bedford	PA	009	CTP
				Blair	PA	013	CTP
Bryan	GA	029	CHS	Cambria	PA	021	CTP
Bulloch	GA	031	CHS	Cameron	PA	023	CTP
Candler	GA	043	CHS	Centre	PA	027	CTP
Chatham	GA	051	CHS	Clearfield	PA	033	CTP
Effingham	GA	103	CHS	Clinton	PA	035	CTP
Evans	GA	109	CHS	Columbia	PA	037	CTP
Jenkins	GA	165	CHS	Cumberland	PA	041	CTP
Liberty	GA	179	CHS	Dauphin	PA	043	CTP
Long	GA	183	CHS	Elk	PA	047	CTP
McIntosh	GA	191	CHS	Franklin	PA	055	CTP
Screven	GA	251	CHS	Fulton	PA	057	CTP
Tattnall	GA	267	CHS	Huntingdon	PA	061	CTP
Allendale	SC	005	CHS	Juniata	PA	067	CTP
Beaufort	SC	013	CHS	Lancaster	PA	071	CTP
Berkeley	SC	015	CHS	Lebanon	PA	075	CTP
Charleston	SC	019	CHS	Lycoming	PA	081	CTP
Colleton	SC	029	CHS	McKean	PA	083	CTP
Dorchester	SC	035	CHS	Mifflin	PA	087	CTP
Hampton	SC	049	CHS	Montour	PA	093	CTP
Jasper	SC	053	CHS	Northumberland	PA	097	CTP
				Perry	PA	099	CTP
Ashland	OH	005	CLE	Potter	PA	105	CTP
Ashtabula	OH	007	CLE				

Schuylkill	PA	107	CTP	York	SC	091	GSP
Snyder	PA	109	CTP				
Somerset	PA	111	CTP	Androscoggin	ME	001	GYX
Sullivan	PA	113	CTP	Cumberland	ME	005	GYX
Tioga	PA	117	CTP	Franklin	ME	007	GYX
Union	PA	119	CTP	Kennebec	ME	011	GYX
Warren	PA	123	CTP	Knox	ME	013	GYX
York	PA	133	CTP	Lincoln	ME	015	GYX
				Oxford	ME	017	GYX
Elbert	GA	105	GSP	Sagadahoc	ME	023	GYX
Franklin	GA	119	GSP	Waldo	ME	027	GYX
Habersham	GA	137	GSP	York	ME	031	GYX
Hart	GA	147	GSP	Belknap	NH	001	GYX
Rabun	GA	241	GSP	Carroll	NH	003	GYX
Stephens	GA	257	GSP	Coos	NH	007	GYX
Alexander	NC	003	GSP	Grafton	NH	009	GYX
Avery	NC	011	GSP	Merrimack	NH	013	GYX
Buncombe	NC	021	GSP	Rockingham	NH	015	GYX
Burke	NC	023	GSP	Strafford	NH	017	GYX
Cabarrus	NC	025	GSP	Sullivan	NH	019	GYX
Caldwell	NC	027	GSP				
Catawba	NC	035	GSP	Bladen	NC	017	ILM
Cleveland	NC	045	GSP	Brunswick	NC	019	ILM
Davie	NC	059	GSP	Columbus	NC	047	ILM
Gaston	NC	071	GSP	NewHanover	NC	129	ILM
Graham	NC	075	GSP	Pender	NC	141	ILM
Haywood	NC	087	GSP	Robeson	NC	155	ILM
Henderson	NC	089	GSP	Darlington	SC	031	ILM
Iredell	NC	097	GSP	Dillon	SC	033	ILM
Jackson	NC	099	GSP	Florence	SC	041	ILM
Lincoln	NC	109	GSP	Georgetown	SC	043	ILM
McDowell	NC	111	GSP	Horry	SC	051	ILM
Macon	NC	113	GSP	Marion	SC	067	ILM
Madison	NC	115	GSP	Marlboro	SC	069	ILM
Mecklenburg	NC	119	GSP	Williamsburg	SC	089	ILM
Mitchell	NC	121	GSP				
Polk	NC	149	GSP	District of Columbia	DC	001	LWX
Rowan	NC	159	GSP	Allegany	MD	001	LWX
Rutherford	NC	161	GSP	Anne Arundel	MD	003	LWX
Swain	NC	173	GSP	Baltimore	MD	005	LWX
Transylvania	NC	175	GSP	Calvert	MD	009	LWX
Union	NC	179	GSP	Carroll	MD	013	LWX
Yancey	NC	199	GSP	Charles	MD	017	LWX
Abbeville	SC	001	GSP	Frederick	MD	021	LWX
Anderson	SC	007	GSP	Harford	MD	025	LWX
Cherokee	SC	021	GSP	Howard	MD	027	LWX
Chester	SC	023	GSP	Montgomery	MD	031	LWX
Greenville	SC	045	GSP	Prince Georges	MD	033	LWX
Greenwood	SC	047	GSP	St. Marys	MD	037	LWX
Laurens	SC	059	GSP	Washington	MD	043	LWX
Oconee	SC	073	GSP	Baltimore City	MD	510	LWX
Pickens	SC	077	GSP	Albemarle	VA	003	LWX
Spartanburg	SC	083	GSP	Arlington	VA	013	LWX
Union	SC	087	GSP	Augusta	VA	015	LWX

Clarke	VA	043	LWX	Pitt	NC	147	MHX
Culpeper	VA	047	LWX	Tyrrell	NC	177	MHX
Fairfax	VA	059	LWX	Washington	NC	187	MHX
Fauquier	VA	061	LWX				
Frederick	VA	069	LWX	Fairfield	CT	001	OKX
Greene	VA	079	LWX	Middlesex	CT	007	OKX
Highland	VA	091	LWX	New Haven	CT	009	OKX
King George	VA	099	LWX	New London	CT	011	OKX
Loudoun	VA	107	LWX	Bergen	NJ	003	OKX
Madison	VA	113	LWX	Essex	NJ	013	OKX
Nelson	VA	125	LWX	Hudson	NJ	017	OKX
Orange	VA	137	LWX	Passaic	NJ	031	OKX
Page	VA	139	LWX	Union	NJ	039	OKX
Prince William	VA	153	LWX	Bronx	NY	005	OKX
Rappahannock	VA	157	LWX	Kings	NY	047	OKX
Rockingham	VA	165	LWX	Nassau	NY	059	OKX
Shenandoah	VA	171	LWX	New York	NY	061	OKX
Spotsylvania	VA	177	LWX	Orange	NY	071	OKX
Stafford	VA	179	LWX	Putnam	NY	079	OKX
Warren	VA	187	LWX	Queens	NY	081	OKX
City of Alexandria	VA	510	LWX	Richmond	NY	085	OKX
City of Charlottesville	VA	540	LWX	Rockland	NY	087	OKX
City of Fairfax	VA	600	LWX	Suffolk	NY	103	OKX
City of Falls Church	VA	610	LWX	Westchester	NY	119	OKX
City of Fredericksburg	VA	630	LWX				
City of Harrisonburg	VA	660	LWX	Garrett	MD	023	PBZ
City of Manassas	VA	683	LWX	Belmont	OH	013	PBZ
City of Manassas Pk	VA	685	LWX	Carroll	OH	019	PBZ
City of Staunton	VA	790	LWX	Columbiana	OH	029	PBZ
City of Waynesboro	VA	820	LWX	Coshocton	OH	031	PBZ
City of Winchester	VA	840	LWX	Guernsey	OH	059	PBZ
Berkeley	WV	003	LWX	Harrison	OH	067	PBZ
Grant	WV	023	LWX	Jefferson	OH	081	PBZ
Hampshire	WV	027	LWX	Monroe	OH	111	PBZ
Hardy	WV	031	LWX	Muskingum	OH	119	PBZ
Jefferson	WV	037	LWX	Noble	OH	121	PBZ
Mineral	WV	057	LWX	Tuscarawas	OH	157	PBZ
Morgan	WV	065	LWX	Allegheny	PA	003	PBZ
Pendleton	WV	071	LWX	Armstrong	PA	005	PBZ
				Beaver	PA	007	PBZ
Beaufort	NC	013	MHX	Butler	PA	019	PBZ
Carteret	NC	031	MHX	Clarion	PA	031	PBZ
Craven	NC	049	MHX	Fayette	PA	051	PBZ
Mainland Dare	NC	055	MHX	Forest	PA	053	PBZ
Outer Banks Dare	NC	055	MHX	Greene	PA	059	PBZ
Duplin	NC	061	MHX	Indiana	PA	063	PBZ
Greene	NC	079	MHX	Jefferson	PA	065	PBZ
Outer Banks Hyde	NC	095	MHX	Lawrence	PA	073	PBZ
Mainland Hyde	NC	095	MHX	Mercer	PA	085	PBZ
Jones	NC	103	MHX	Venango	PA	121	PBZ
Lenoir	NC	107	MHX	Washington	PA	125	PBZ
Martin	NC	117	MHX	Westmoreland	PA	129	PBZ
Onslow	NC	133	MHX	Brooke	WV	009	PBZ
Pamlico	NC	137	MHX	Hancock	WV	029	PBZ

Marion	WV	049	PBZ	Halifax	NC	083	RAH
Marshall	WV	051	PBZ	Harnett	NC	085	RAH
Monongalia	WV	061	PBZ	Hoke	NC	093	RAH
Ohio	WV	069	PBZ	Johnston	NC	101	RAH
Preston	WV	077	PBZ	Lee	NC	105	RAH
Tucker	WV	093	PBZ	Montgomery	NC	123	RAH
Wetzel	WV	103	PBZ	Moore	NC	125	RAH
				Nash	NC	127	RAH
Kent	DE	001	PHI	Orange	NC	135	RAH
New Castle	DE	003	PHI	Person	NC	145	RAH
Sussex	DE	005	PHI	Randolph	NC	151	RAH
Caroline	MD	011	PHI	Richmond	NC	153	RAH
Cecil	MD	015	PHI	Sampson	NC	163	RAH
Kent	MD	029	PHI	Scotland	NC	165	RAH
Queen Anne's	MD	035	PHI	Stanly	NC	167	RAH
Talbo	MD	041	PHI	Vance	NC	181	RAH
Atlantic	NJ	001	PHI	Wake	NC	183	RAH
Burlington	NJ	005	PHI	Warren	NC	185	RAH
Camden	NJ	007	PHI	Wayne	NC	191	RAH
Cape May	NJ	009	PHI	Wilson	NC	195	RAH
Cumberland	NJ	011	PHI				
Gloucester	NJ	015	PHI	Boyd	KY	019	RLX
Hunterdon	NJ	019	PHI	Carter	KY	043	RLX
Mercer	NJ	021	PHI	Greenup	KY	089	RLX
Middlesex	NJ	023	PHI	Lawrence	KY	127	RLX
Monmouth	NJ	025	PHI	Athens	OH	009	RLX
Morris	NJ	027	PHI	Gallia	OH	053	RLX
Ocean	NJ	029	PHI	Jackson	OH	079	RLX
Salem	NJ	033	PHI	Lawrence	OH	087	RLX
Somerset	NJ	035	PHI	Meigs	OH	105	RLX
Sussex	NJ	037	PHI	Morgan	OH	115	RLX
Warren	NJ	041	PHI	Perry	OH	127	RLX
Berks	PA	011	PHI	Vinton	OH	163	RLX
Bucks	PA	017	PHI	Washington	OH	167	RLX
Carbon	PA	025	PHI	Buchanan	VA	027	RLX
Chester	PA	029	PHI	Dickenson	VA	051	RLX
Delaware	PA	045	PHI	Barbour	WV	001	RLX
Lehigh	PA	077	PHI	Boone	WV	005	RLX
Monroe	PA	089	PHI	Braxton	WV	007	RLX
Montgomery	PA	091	PHI	Cabell	WV	011	RLX
Northampton	PA	095	PHI	Calhoun	WV	013	RLX
Philadelphia	PA	101	PHI	Clay	WV	015	RLX
				Doddridge	WV	017	RLX
Alamance	NC	001	RAH	Fayette	WV	019	RLX
Anson	NC	007	RAH	Gilmer	WV	021	RLX
Chatham	NC	037	RAH	Harrison	WV	033	RLX
Cumberland	NC	051	RAH	Jackson	WV	035	RLX
Davidson	NC	057	RAH	Kanawha	WV	039	RLX
Durham	NC	063	RAH	Lewis	WV	041	RLX
Edgecombe	NC	065	RAH	Lincoln	WV	043	RLX
Forsyth	NC	067	RAH	Logan	WV	045	RLX
Franklin	NC	069	RAH	McDowell	WV	047	RLX
Granville	NC	077	RAH	Mason	WV	053	RLX
Guilford	NC	081	RAH	Mingo	WV	059	RLX

Nicholas	WV	067	RLX	Carroll	VA	035	RNK
Pleasants	WV	073	RLX	Charlotte	VA	037	RNK
Pocahontas	WV	075	RLX	Craig	VA	045	RNK
Putnam	WV	079	RLX	Floyd	VA	063	RNK
Raleigh	WV	081	RLX	Franklin	VA	067	RNK
Randolph	WV	083	RLX	Giles	VA	071	RNK
Ritchie	WV	085	RLX	Grayson	VA	077	RNK
Roane	WV	087	RLX	Halifax	VA	083	RNK
Taylor	WV	091	RLX	Henry	VA	089	RNK
Tyler	WV	095	RLX	Montgomery	VA	121	RNK
Upshur	WV	097	RLX	Patrick	VA	141	RNK
Wayne	WV	099	RLX	Pittsylvania	VA	143	RNK
Webster	WV	101	RLX	Pulaski	VA	155	RNK
Wirt	WV	105	RLX	Roanoke	VA	161	RNK
Wood	WV	107	RLX	Rockbridge	VA	163	RNK
Wyoming	WV	109	RLX	Smyth	VA	173	RNK
				Tazewell	VA	185	RNK
Alleghany	NC	005	RNK	Wythe	VA	197	RNK
Ashe	NC	009	RNK	Bedford	VA	515	RNK
Caswell	NC	033	RNK	Buena Vista	VA	530	RNK
Rockingham	NC	157	RNK	Clifton Forge	VA	560	RNK
Stokes	NC	169	RNK	Covington	VA	580	RNK
Surry	NC	171	RNK	Danville	VA	590	RNK
Watauga	NC	189	RNK	Galax	VA	640	RNK
Wilkes	NC	193	RNK	Lexington	VA	678	RNK
Yadkin	NC	197	RNK	Lynchburg	VA	680	RNK
Alleghany	VA	005	RNK	Martinsville	VA	690	RNK
Amherst	VA	009	RNK	Radford	VA	750	RNK
Appomattox	VA	011	RNK	Roanoke	VA	770	RNK
Bath	VA	017	RNK	Salem	VA	775	RNK
Bedford	VA	019	RNK	Greenbrier	WV	025	RNK
Bland	VA	021	RNK	Mercer	WV	055	RNK
Botetourt	VA	023	RNK	Monroe	WV	063	RNK
Buckingham	VA	029	RNK	Summers	WV	089	RNK
Campbell	VA	031	RNK				

5.1.3 Listing by Southern Region WFOs

<u>county name</u>	<u>state code</u>	<u>FIPS</u>	<u>primary wfo</u>				
Bernalillo	NM	001	ABQ	Quay	NM	037	ABQ
Catron	NM	003	ABQ	Rio Arriba	NM	039	ABQ
Chaves	NM	005	ABQ	Roosevelt	NM	041	ABQ
Cibola	NM	006	ABQ	Sandoval	NM	043	ABQ
Colfax	NM	007	ABQ	San Juan	NM	045	ABQ
Curry	NM	009	ABQ	San Miguel	NM	047	ABQ
De Baca	NM	011	ABQ	Santa Fe	NM	049	ABQ
Guadalupe	NM	019	ABQ	Socorro	NM	053	ABQ
Harding	NM	021	ABQ	Taos	NM	055	ABQ
Lincoln	NM	027	ABQ	Torrance	NM	057	ABQ
Los Alamos	NM	028	ABQ	Union	NM	059	ABQ
McKinley	NM	031	ABQ	Valencia	NM	061	ABQ
Mora	NM	033	ABQ	Beaver	OK	007	AMA
				Cimarron	OK	025	AMA

Texas	OK	139	AMA	Shelby	AL	117	BMX
Armstrong	TX	011	AMA	Sumter	AL	119	BMX
Carson	TX	065	AMA	Talladega	AL	121	BMX
Collingsworth	TX	087	AMA	Tallapoosa	AL	123	BMX
Dallam	TX	111	AMA	Tuscaloosa	AL	125	BMX
Deaf Smith	TX	117	AMA	Walker	AL	127	BMX
Donley	TX	129	AMA	Winston	AL	133	BMX
Gray	TX	179	AMA	Brooks	TX	047	BRO
Hansford	TX	195	AMA	Cameron	TX	061	BRO
Hartley	TX	205	AMA	Hidalgo	TX	215	BRO
Hemphill	TX	211	AMA	Jim Hogg	TX	247	BRO
Hutchinson	TX	233	AMA	Kenedy	TX	261	BRO
Lipscomb	TX	295	AMA	Starr	TX	427	BRO
Moore	TX	341	AMA	Willacy	TX	489	BRO
Ochiltree	TX	357	AMA	Zapata	TX	505	BRO
Oldham	TX	359	AMA				
Potter	TX	375	AMA	Burke	GA	033	CAE
Randall	TX	381	AMA	Columbia	GA	073	CAE
Roberts	TX	393	AMA	Lincoln	GA	181	CAE
Sherman	TX	421	AMA	McDuffie	GA	189	CAE
Wheeler	TX	483	AMA	Richmond	GA	245	CAE
				Aiken	SC	003	CAE
Autauga	AL	001	BMX	Bamberg	SC	009	CAE
Barbour	AL	005	BMX	Barnwell	SC	011	CAE
Bibb	AL	007	BMX	Calhoun	SC	017	CAE
Blount	AL	009	BMX	Chesterfield	SC	025	CAE
Bullock	AL	011	BMX	Clarendon	SC	027	CAE
Calhoun	AL	015	BMX	Edgefield	SC	037	CAE
Chambers	AL	017	BMX	Fairfield	SC	039	CAE
Cherokee	AL	019	BMX	Kershaw	SC	055	CAE
Chilton	AL	021	BMX	Lancaster	SC	057	CAE
Clay	AL	027	BMX	Lee	SC	061	CAE
Cleburne	AL	029	BMX	Lexington	SC	063	CAE
Coosa	AL	037	BMX	McCormick	SC	065	CAE
Dallas	AL	047	BMX	Newberry	SC	071	CAE
Elmore	AL	051	BMX	Orangeburg	SC	075	CAE
Etowah	AL	055	BMX	Richland	SC	079	CAE
Fayette	AL	057	BMX	Saluda	SC	081	CAE
Greene	AL	063	BMX	Sumter	SC	085	CAE
Hale	AL	065	BMX	Aransas	TX	007	CRP
Jefferson	AL	073	BMX	Bee	TX	025	CRP
Lamar	AL	075	BMX	Calhoun	TX	057	CRP
Lee	AL	081	BMX	Duval	TX	131	CRP
Lowndes	AL	085	BMX	Goliad	TX	175	CRP
Macon	AL	087	BMX	Jim Wells	TX	249	CRP
Marengo	AL	091	BMX	Kleberg	TX	273	CRP
Marion	AL	093	BMX	LaSalle	TX	283	CRP
Montgomery	AL	101	BMX	Live Oak	TX	297	CRP
Perry	AL	105	BMX	McMullen	TX	311	CRP
Pickens	AL	107	BMX	Nueces	TX	355	CRP
Pike	AL	109	BMX	Refugio	TX	391	CRP
Randolph	AL	111	BMX	San Patricio	TX	409	CRP
Russell	AL	113	BMX	Victoria	TX	469	CRP
St. Clair	AL	115	BMX	Webb	TX	479	CRP

Dona Ana	NM	013	EPZ	Carroll	GA	045	FFC
Grant	NM	017	EPZ	Catoosa	GA	047	FFC
Hidalgo	NM	023	EPZ	Chattahoochee	GA	053	FFC
Luna	NM	029	EPZ	Chattooga	GA	055	FFC
Otero	NM	035	EPZ	Cherokee	GA	057	FFC
Sierra	NM	051	EPZ	Clarke	GA	059	FFC
El Paso	TX	141	EPZ	Clayton	GA	063	FFC
Hudspeth	TX	229	EPZ	Cobb	GA	067	FFC
				Coweta	GA	077	FFC
Atascosa	TX	013	EWX	Crawford	GA	079	FFC
Bandera	TX	019	EWX	Crisp	GA	081	FFC
Bastrop	TX	021	EWX	Dade	GA	083	FFC
Bexar	TX	029	EWX	Dawson	GA	085	FFC
Blanco	TX	031	EWX	DeKalb	GA	089	FFC
Burnet	TX	053	EWX	Dodge	GA	091	FFC
Caldwell	TX	055	EWX	Dooly	GA	093	FFC
Comal	TX	091	EWX	Douglas	GA	097	FFC
DeWitt	TX	123	EWX	Emanuel	GA	107	FFC
Dimmit	TX	127	EWX	Fannin	GA	111	FFC
Edwards	TX	137	EWX	Fayette	GA	113	FFC
Fayette	TX	149	EWX	Floyd	GA	115	FFC
Frio	TX	163	EWX	Forsyth	GA	117	FFC
Gillespie	TX	171	EWX	Fulton	GA	121	FFC
Gonzales	TX	177	EWX	Gilmer	GA	123	FFC
Guadalupe	TX	187	EWX	Glascok	GA	125	FFC
Hays	TX	209	EWX	Gordon	GA	129	FFC
Karnes	TX	255	EWX	Greene	GA	133	FFC
Kendall	TX	259	EWX	Gwinnett	GA	135	FFC
Kerr	TX	265	EWX	Hall	GA	139	FFC
Kinney	TX	271	EWX	Hancock	GA	141	FFC
Lavaca	TX	285	EWX	Haralson	GA	143	FFC
Lee	TX	287	EWX	Harris	GA	145	FFC
Llano	TX	299	EWX	Heard	GA	149	FFC
Maverick	TX	323	EWX	Henry	GA	151	FFC
Medina	TX	325	EWX	Houston	GA	153	FFC
Real	TX	385	EWX	Jackson	GA	157	FFC
Travis	TX	453	EWX	Jasper	GA	159	FFC
Uvalde	TX	463	EWX	Jefferson	GA	163	FFC
Val Verde	TX	465	EWX	Johnson	GA	167	FFC
Williamson	TX	491	EWX	Jones	GA	169	FFC
Wilson	TX	493	EWX	Lamar	GA	171	FFC
Zavala	TX	507	EWX	Lurens	GA	175	FFC
				Lumpkin	GA	187	FFC
Upper Keys in Monroe FL		087	EYW	Macon	GA	193	FFC
Lower Keys in Monroe FL		087	EYW	Madison	GA	195	FFC
Mid Keys in Monroe FL		087	EYW	Marion	GA	197	FFC
				Meriwether	GA	199	FFC
Baldwin	GA	009	FFC	Monroe	GA	207	FFC
Banks	GA	011	FFC	Montgomery	GA	209	FFC
Barrow	GA	013	FFC	Morgan	GA	211	FFC
Bartow	GA	015	FFC	Murray	GA	213	FFC
Bibb	GA	021	FFC	Muscogee	GA	215	FFC
Bleckley	GA	023	FFC	Newton	GA	217	FFC
Butts	GA	035	FFC	Oconee	GA	219	FFC

Oglethorpe	GA	221	FFC	Henderson	TX	213	FWD
Paulding	GA	223	FFC	Hill	TX	217	FWD
Peach	GA	225	FFC	Hood	TX	221	FWD
Pickens	GA	227	FFC	Hopkins	TX	223	FWD
Pike	GA	231	FFC	Hunt	TX	231	FWD
Polk	GA	233	FFC	Jack	TX	237	FWD
Pulaski	GA	235	FFC	Johnson	TX	251	FWD
Putnam	GA	237	FFC	Kaufman	TX	257	FWD
Rockdale	GA	247	FFC	Lamar	TX	277	FWD
Schley	GA	249	FFC	Lampasas	TX	281	FWD
Spalding	GA	255	FFC	Leon	TX	289	FWD
Stewart	GA	259	FFC	Limestone	TX	293	FWD
Sumter	GA	261	FFC	McLennan	TX	309	FWD
Talbot	GA	263	FFC	Milam	TX	331	FWD
Taliaferro	GA	265	FFC	Mills	TX	333	FWD
Taylor	GA	269	FFC	Montague	TX	337	FWD
Telfair	GA	271	FFC	Navarro	TX	349	FWD
Toombs	GA	279	FFC	Palo Pinto	TX	363	FWD
Towns	GA	281	FFC	Parker	TX	367	FWD
Treutlen	GA	283	FFC	Rains	TX	379	FWD
Troup	GA	285	FFC	Robertson	TX	395	FWD
Twiggs	GA	289	FFC	Rockwall	TX	397	FWD
Union	GA	291	FFC	Somervell	TX	425	FWD
Upton	GA	293	FFC	Stephens	TX	429	FWD
Walker	GA	295	FFC	Tarrant	TX	439	FWD
Walton	GA	297	FFC	Van Zandt	TX	467	FWD
Warren	GA	301	FFC	Wise	TX	497	FWD
Washington	GA	303	FFC	Young	TX	503	FWD
Webster	GA	307	FFC				
Wheeler	GA	309	FFC	Austin	TX	015	HGX
White	GA	311	FFC	Brazoria	TX	039	HGX
Whitfield	GA	313	FFC	Brazos	TX	041	HGX
Wilcox	GA	315	FFC	Burleson	TX	051	HGX
Wilkes	GA	317	FFC	Chambers	TX	071	HGX
Wilkinson	GA	319	FFC	Colorado	TX	089	HGX
				Fort Bend	TX	157	HGX
Anderson	TX	001	FWD	Galveston	TX	167	HGX
Bell	TX	027	FWD	Grimes	TX	185	HGX
Bosque	TX	035	FWD	Harris	TX	201	HGX
Collin	TX	085	FWD	Houston	TX	225	HGX
Comanche	TX	093	FWD	Jackson	TX	239	HGX
Cooke	TX	097	FWD	Liberty	TX	291	HGX
Coryell	TX	099	FWD	Madison	TX	313	HGX
Dallas	TX	113	FWD	Matagorda	TX	321	HGX
Delta	TX	119	FWD	Montgomery	TX	339	HGX
Denton	TX	121	FWD	Polk	TX	373	HGX
Eastland	TX	133	FWD	San Jacinto	TX	407	HGX
Ellis	TX	139	FWD	Trinity	TX	455	HGX
Erath	TX	143	FWD	Walker	TX	471	HGX
Falls	TX	145	FWD	Waller	TX	473	HGX
Fannin	TX	147	FWD	Washington	TX	477	HGX
Freestone	TX	161	FWD	Wharton	TX	481	HGX
Grayson	TX	181	FWD				
Hamilton	TX	193	FWD	Colbert	AL	033	HUN

Cullman	AL	043	HUN	Neshoba	MS	099	JAN
DeKalb	AL	049	HUN	Newton	MS	101	JAN
Franklin	AL	059	HUN	Noxubee	MS	103	JAN
Jackson	AL	071	HUN	Oktibbeha	MS	105	JAN
Lauderdale	AL	077	HUN	Rankin	MS	121	JAN
Lawrence	AL	079	HUN	Scott	MS	123	JAN
Limestone	AL	083	HUN	Sharkey	MS	125	JAN
Madison	AL	089	HUN	Simpson	MS	127	JAN
Marshall	AL	095	HUN	Smith	MS	129	JAN
Morgan	AL	103	HUN	Sunflower	MS	133	JAN
				Warren	MS	149	JAN
Ashley	AR	003	JAN	Washington	MS	151	JAN
Chicot	AR	017	JAN	Webster	MS	155	JAN
Catahoula	LA	025	JAN	Winston	MS	159	JAN
Concordia	LA	029	JAN	Yazoo	MS	163	JAN
East Carroll	LA	035	JAN				
Franklin	LA	041	JAN	Alachua	FL	001	JAX
Madison	LA	065	JAN	Baker	FL	003	JAX
Morehouse	LA	067	JAN	Bradford	FL	007	JAX
Richland	LA	083	JAN	Clay	FL	019	JAX
Tensas	LA	107	JAN	Columbia	FL	023	JAX
West Carroll	LA	123	JAN	Duval	FL	031	JAX
Adams	MS	001	JAN	Flagler	FL	035	JAX
Attala	MS	007	JAN	Gilchrist	FL	041	JAX
Bolivar	MS	011	JAN	Hamilton	FL	047	JAX
Carroll	MS	015	JAN	Marion	FL	083	JAX
Choctaw	MS	019	JAN	Nassau	FL	089	JAX
Claiborne	MS	021	JAN	Putnam	FL	107	JAX
Clarke	MS	023	JAN	St. Johns	FL	109	JAX
Clay	MS	025	JAN	Suwannee	FL	121	JAX
Copiah	MS	029	JAN	Union	FL	125	JAX
Covington	MS	031	JAN	Appling	GA	001	JAX
Forrest	MS	035	JAN	Atkinson	GA	003	JAX
Franklin	MS	037	JAN	Bacon	GA	005	JAX
Grenada	MS	043	JAN	Brantley	GA	025	JAX
Hinds	MS	049	JAN	Camden	GA	039	JAX
Holmes	MS	051	JAN	Charlton	GA	049	JAX
Humphreys	MS	053	JAN	Clinch	GA	065	JAX
Issaquena	MS	055	JAN	Coffee	GA	069	JAX
Jasper	MS	061	JAN	Echols	GA	101	JAX
Jefferson	MS	063	JAN	Glynn	GA	127	JAX
Jefferson Davis	MS	065	JAN	Jeff Davis	GA	161	JAX
Jones	MS	067	JAN	Pierce	GA	229	JAX
Kemper	MS	069	JAN	Ware	GA	299	JAX
Lamar	MS	073	JAN	Wayne	GA	305	JAX
Lauderdale	MS	075	JAN				
Lawrence	MS	077	JAN	Acadia	LA	001	LCH
Leake	MS	079	JAN	Allen	LA	003	LCH
Leflore	MS	083	JAN	Avoyelles	LA	009	LCH
Lincoln	MS	085	JAN	Beauregard	LA	011	LCH
Lowndes	MS	087	JAN	Calcasieu	LA	019	LCH
Madison	MS	089	JAN	Cameron	LA	023	LCH
Marion	MS	091	JAN	Evangeline	LA	039	LCH
Montgomery	MS	097	JAN	Iberia	LA	045	LCH

Jefferson Davis	LA	053	LCH	Floyd	TX	153	LUB
Lafayette	LA	055	LCH	Garza	TX	169	LUB
Rapides	LA	079	LCH	Hale	TX	189	LUB
St. Landry	LA	097	LCH	Hall	TX	191	LUB
St. Martin	LA	099	LCH	Hockley	TX	219	LUB
St. Mary	LA	101	LCH	Kent	TX	263	LUB
Vermilion	LA	113	LCH	King	TX	269	LUB
Vernon	LA	115	LCH	Lamb	TX	279	LUB
Hardin	TX	199	LCH	Lubbock	TX	303	LUB
Jasper	TX	241	LCH	Lynn	TX	305	LUB
Jefferson	TX	245	LCH	Motley	TX	345	LUB
Newton	TX	351	LCH	Parmer	TX	369	LUB
Orange	TX	361	LCH	Stonewall	TX	433	LUB
Tyler	TX	457	LCH	Swisher	TX	437	LUB
				Terry	TX	445	LUB
				Yoakum	TX	501	LUB
Ascension	LA	005	LIX				
Assumption	LA	007	LIX				
East Baton Rouge	LA	033	LIX	Arkansas	AR	001	LZK
East Feliciana	LA	037	LIX	Baxter	AR	005	LZK
Iberville	LA	047	LIX	Boone	AR	009	LZK
Jefferson	LA	051	LIX	Bradley	AR	011	LZK
Lafourche	LA	057	LIX	Calhoun	AR	013	LZK
Livingston	LA	063	LIX	Clark	AR	019	LZK
Orleans	LA	071	LIX	Cleburne	AR	023	LZK
Plaquemines	LA	075	LIX	Cleveland	AR	025	LZK
Pointe Coupee	LA	077	LIX	Conway	AR	029	LZK
St. Bernard	LA	087	LIX	Dallas	AR	039	LZK
St. Charles	LA	089	LIX	Desha	AR	041	LZK
St. Helena	LA	091	LIX	Drew	AR	043	LZK
St. James	LA	093	LIX	Faulkner	AR	045	LZK
St. John The Baptist	LA	095	LIX	Fulton	AR	049	LZK
St. Tammany	LA	103	LIX	Garland	AR	051	LZK
Tangipahoa	LA	105	LIX	Grant	AR	053	LZK
Terrebonne	LA	109	LIX	Hot Spring	AR	059	LZK
Washington	LA	117	LIX	Independence	AR	063	LZK
West Baton Rouge	LA	121	LIX	Izard	AR	065	LZK
West Feliciana	LA	125	LIX	Jackson	AR	067	LZK
Amite	MS	005	LIX	Jefferson	AR	069	LZK
Hancock	MS	045	LIX	Johnson	AR	071	LZK
Harrison	MS	047	LIX	Lincoln	AR	079	LZK
Jackson	MS	059	LIX	Logan	AR	083	LZK
PearlRiver	MS	109	LIX	Lonoke	AR	085	LZK
Pike	MS	113	LIX	Marion	AR	089	LZK
Walthall	MS	147	LIX	Monroe	AR	095	LZK
Wilkinson	MS	157	LIX	Montgomery	AR	097	LZK
				Newton	AR	101	LZK
Bailey	TX	017	LUB	Ouachita	AR	103	LZK
Briscoe	TX	045	LUB	Perry	AR	105	LZK
Castro	TX	069	LUB	Pike	AR	109	LZK
Childress	TX	075	LUB	Polk	AR	113	LZK
Cochran	TX	079	LUB	Pope	AR	115	LZK
Cottle	TX	101	LUB	Prairie	AR	117	LZK
Crosby	TX	107	LUB	Pulaski	AR	119	LZK
Dickens	TX	125	LUB	Saline	AR	125	LZK

Scott	AR	127	LZK	Coahoma	MS	027	MEG
Searcy	AR	129	LZK	De Soto	MS	033	MEG
Sharp	AR	135	LZK	Itawamba	MS	057	MEG
Stone	AR	137	LZK	Lafayette	MS	071	MEG
Van Buren	AR	141	LZK	Lee	MS	081	MEG
White	AR	145	LZK	Marshall	MS	093	MEG
Woodruff	AR	147	LZK	Monroe	MS	095	MEG
Yell	AR	149	LZK	Panola	MS	107	MEG
				Pontotoc	MS	115	MEG
Eddy	NM	015	MAF	Prentiss	MS	117	MEG
Lea	NM	025	MAF	Quitman	MS	119	MEG
Andrews	TX	003	MAF	Tallahatchie	MS	135	MEG
Borden	TX	033	MAF	Tate	MS	137	MEG
Brewster	TX	043	MAF	Tippah	MS	139	MEG
Crane	TX	103	MAF	Tishomingo	MS	141	MEG
Culberson	TX	109	MAF	Tunica	MS	143	MEG
Dawson	TX	115	MAF	Union	MS	145	MEG
Ector	TX	135	MAF	Yalobusha	MS	161	MEG
Gaines	TX	165	MAF	Carroll	TN	017	MEG
Glasscock	TX	173	MAF	Chester	TN	023	MEG
Howard	TX	227	MAF	Crockett	TN	033	MEG
Jeff Davis	TX	243	MAF	Decatur	TN	039	MEG
Loving	TX	301	MAF	Dyer	TN	045	MEG
Martin	TX	317	MAF	Fayette	TN	047	MEG
Midland	TX	329	MAF	Gibson	TN	053	MEG
Mitchell	TX	335	MAF	Hardeman	TN	069	MEG
Pecos	TX	371	MAF	Hardin	TN	071	MEG
Presidio	TX	377	MAF	Haywood	TN	075	MEG
Reagan	TX	383	MAF	Henderson	TN	077	MEG
Reeves	TX	389	MAF	Henry	TN	079	MEG
Scurry	TX	415	MAF	Lake	TN	095	MEG
Terrell	TX	443	MAF	Lauderdale	TN	097	MEG
Upton	TX	461	MAF	McNairy	TN	109	MEG
Ward	TX	475	MAF	Madison	TN	113	MEG
Winkler	TX	495	MAF	Obion	TN	131	MEG
				Shelby	TN	157	MEG
Clay	AR	021	MEG	Tipton	TN	167	MEG
Craighead	AR	031	MEG	Weakley	TN	183	MEG
Crittenden	AR	035	MEG				
Cross	AR	037	MEG	Broward	FL	011	MFL
Greene	AR	055	MEG	Collier	FL	021	MFL
Lawrence	AR	075	MEG	Glades	FL	043	MFL
Lee	AR	077	MEG	Hendry	FL	051	MFL
Mississippi	AR	093	MEG	Miami-Dade	FL	086	MFL
Phillips	AR	107	MEG	Mainland Monroe	FL	087	MFL
Poinsett	AR	111	MEG	Palm Beach	FL	099	MFL
Randolph	AR	121	MEG				
St. Francis	AR	123	MEG	Brevard	FL	009	MLB
Dunklin	MO	069	MEG	Indian River	FL	061	MLB
Pemiscot	MO	155	MEG	Lake	FL	069	MLB
Alcorn	MS	003	MEG	Martin	FL	085	MLB
Benton	MS	009	MEG	Okeechobee	FL	093	MLB
Calhoun	MS	013	MEG	Orange	FL	095	MLB
Chickasaw	MS	017	MEG	Osceola	FL	097	MLB

St. Lucie	FL	111	MLB	Sequatchie	TN	153	MRX
Seminole	FL	117	MLB	Sevier	TN	155	MRX
Volusia	FL	127	MLB	Sullivan	TN	163	MRX
				Unicoi	TN	171	MRX
Baldwin	AL	003	MOB	Union	TN	173	MRX
Butler	AL	013	MOB	Washington	TN	179	MRX
Choctaw	AL	023	MOB	Lee	VA	105	MRX
Clarke	AL	025	MOB	Russell	VA	167	MRX
Conecuh	AL	035	MOB	Scott	VA	169	MRX
Covington	AL	039	MOB	Washington	VA	191	MRX
Crenshaw	AL	041	MOB	Wise	VA	195	MRX
Escambia	AL	053	MOB	City of Bristol	VA	520	MRX
Mobile	AL	097	MOB	City of Norton	VA	720	MRX
Monroe	AL	099	MOB				
Washington	AL	129	MOB	Bedford	TN	003	OHX
Wilcox	AL	131	MOB	Benton	TN	005	OHX
Escambia	FL	033	MOB	Cannon	TN	015	OHX
Okaloosa	FL	091	MOB	Cheatham	TN	021	OHX
Santa Rosa	FL	113	MOB	Clay	TN	027	OHX
George	MS	039	MOB	Coffee	TN	031	OHX
Greene	MS	041	MOB	Cumberland	TN	035	OHX
Perry	MS	111	MOB	Davidson	TN	037	OHX
Stone	MS	131	MOB	DeKalb	TN	041	OHX
Wayne	MS	153	MOB	Dickson	TN	043	OHX
				Fentress	TN	049	OHX
Cherokee	NC	039	MRX	Franklin	TN	051	OHX
Clay	NC	043	MRX	Giles	TN	055	OHX
Anderson	TN	001	MRX	Grundy	TN	061	OHX
Bledsoe	TN	007	MRX	Hickman	TN	081	OHX
Blount	TN	009	MRX	Houston	TN	083	OHX
Bradley	TN	011	MRX	Humphreys	TN	085	OHX
Campbell	TN	013	MRX	Jackson	TN	087	OHX
Carter	TN	019	MRX	Lawrence	TN	099	OHX
Claiborne	TN	025	MRX	Lewis	TN	101	OHX
Cocke	TN	029	MRX	Lincoln	TN	103	OHX
Grainger	TN	057	MRX	Macon	TN	111	OHX
Greene	TN	059	MRX	Marshall	TN	117	OHX
Hamblen	TN	063	MRX	Mauzy	TN	119	OHX
Hamilton	TN	065	MRX	Montgomery	TN	125	OHX
Hancock	TN	067	MRX	Moore	TN	127	OHX
Hawkins	TN	073	MRX	Overton	TN	133	OHX
Jefferson	TN	089	MRX	Perry	TN	135	OHX
Johnson	TN	091	MRX	Pickett	TN	137	OHX
Knox	TN	093	MRX	Putnam	TN	141	OHX
Loudon	TN	105	MRX	Robertson	TN	147	OHX
McMinn	TN	107	MRX	Rutherford	TN	149	OHX
Marion	TN	115	MRX	Smith	TN	159	OHX
Meigs	TN	121	MRX	Stewart	TN	161	OHX
Monroe	TN	123	MRX	Sumner	TN	165	OHX
Morgan	TN	129	MRX	Trousdale	TN	169	OHX
Polk	TN	139	MRX	Van Buren	TN	175	OHX
Rhea	TN	143	MRX	Warren	TN	177	OHX
Roane	TN	145	MRX	Wayne	TN	181	OHX
Scott	TN	151	MRX	White	TN	185	OHX

Williamson	TN	187	OHX	Foard	TX	155	OUN
Wilson	TN	189	OHX	Hardeman	TX	197	OUN
				Knox	TX	275	OUN
Alfalfa	OK	003	OUN	Wichita	TX	485	OUN
Atoka	OK	005	OUN	Wilbarger	TX	487	OUN
Beckham	OK	009	OUN				
Blaine	OK	011	OUN	Columbia	AR	027	SHV
Bryan	OK	013	OUN	Hempstead	AR	057	SHV
Caddo	OK	015	OUN	Howard	AR	061	SHV
Canadian	OK	017	OUN	Lafayette	AR	073	SHV
Carter	OK	019	OUN	Little River	AR	081	SHV
Cleveland	OK	027	OUN	Miller	AR	091	SHV
Coal	OK	029	OUN	Nevada	AR	099	SHV
Comanche	OK	031	OUN	Sevier	AR	133	SHV
Cotton	OK	033	OUN	Union	AR	139	SHV
Custer	OK	039	OUN	Bienville	LA	013	SHV
Dewey	OK	043	OUN	Bossier	LA	015	SHV
Ellis	OK	045	OUN	Caddo	LA	017	SHV
Garfield	OK	047	OUN	Caldwell	LA	021	SHV
Garvin	OK	049	OUN	Claiborne	LA	027	SHV
Grady	OK	051	OUN	DeSoto	LA	031	SHV
Grant	OK	053	OUN	Grant	LA	043	SHV
Greer	OK	055	OUN	Jackson	LA	049	SHV
Harmon	OK	057	OUN	La Salle	LA	059	SHV
Harper	OK	059	OUN	Lincoln	LA	061	SHV
Hughes	OK	063	OUN	Natchitoches	LA	069	SHV
Jackson	OK	065	OUN	Ouachita	LA	073	SHV
Jefferson	OK	067	OUN	Red River	LA	081	SHV
Johnston	OK	069	OUN	Sabine	LA	085	SHV
Kay	OK	071	OUN	Union	LA	111	SHV
Kingfisher	OK	073	OUN	Webster	LA	119	SHV
Kiowa	OK	075	OUN	Winn	LA	127	SHV
Lincoln	OK	081	OUN	McCurtain	OK	089	SHV
Logan	OK	083	OUN	Angelina	TX	005	SHV
Love	OK	085	OUN	Bowie	TX	037	SHV
McClain	OK	087	OUN	Camp	TX	063	SHV
Major	OK	093	OUN	Cass	TX	067	SHV
Marshall	OK	095	OUN	Cherokee	TX	073	SHV
Murray	OK	099	OUN	Franklin	TX	159	SHV
Noble	OK	103	OUN	Gregg	TX	183	SHV
Oklahoma	OK	109	OUN	Harrison	TX	203	SHV
Payne	OK	119	OUN	Marion	TX	315	SHV
Pontotoc	OK	123	OUN	Morris	TX	343	SHV
Pottawatomie	OK	125	OUN	Nacogdoches	TX	347	SHV
Roger Mills	OK	129	OUN	Panola	TX	365	SHV
Seminole	OK	133	OUN	Red River	TX	387	SHV
Stephens	OK	137	OUN	Rusk	TX	401	SHV
Tillman	OK	141	OUN	Sabine	TX	403	SHV
Washita	OK	149	OUN	San Augustine	TX	405	SHV
Woods	OK	151	OUN	Shelby	TX	419	SHV
Woodward	OK	153	OUN	Smith	TX	423	SHV
Archer	TX	009	OUN	Titus	TX	449	SHV
Baylor	TX	023	OUN	Upshur	TX	459	SHV
Clay	TX	077	OUN	Wood	TX	499	SHV

Brown	TX	049	SJT	Guayama	PR	057	SJU
Callahan	TX	059	SJT	Guayanilla	PR	059	SJU
Coke	TX	081	SJT	Guaynabo	PR	061	SJU
Coleman	TX	083	SJT	Gurabo	PR	063	SJU
Concho	TX	095	SJT	Hatillo	PR	065	SJU
Crockett	TX	105	SJT	Hormigueros	PR	067	SJU
Fisher	TX	151	SJT	Humacao	PR	069	SJU
Haskell	TX	207	SJT	Isabela	PR	071	SJU
Irion	TX	235	SJT	Jayuya	PR	073	SJU
Jones	TX	253	SJT	Juana Diaz	PR	075	SJU
Kimble	TX	267	SJT	Juncos	PR	077	SJU
McCulloch	TX	307	SJT	Lajas	PR	079	SJU
Mason	TX	319	SJT	Lares	PR	081	SJU
Menard	TX	327	SJT	Las Marias	PR	083	SJU
Nolan	TX	353	SJT	Las Piedras	PR	085	SJU
Runnels	TX	399	SJT	Loiza	PR	087	SJU
San Saba	TX	411	SJT	Luquillo	PR	089	SJU
Schleicher	TX	413	SJT	Manati	PR	091	SJU
Shackelford	TX	417	SJT	Maricao	PR	093	SJU
Sterling	TX	431	SJT	Maunabo	PR	095	SJU
Sutton	TX	435	SJT	Mayaguez	PR	097	SJU
Taylor	TX	441	SJT	Moca	PR	099	SJU
Throckmorton	TX	447	SJT	Morovis	PR	101	SJU
Tom Green	TX	451	SJT	Naguabo	PR	103	SJU
				Naranjito	PR	105	SJU
Adjuntas	PR	001	SJU	Orocovis	PR	107	SJU
Aguada	PR	003	SJU	Patillas	PR	109	SJU
Aguadilla	PR	005	SJU	Penuelas	PR	111	SJU
Aguas Buenas	PR	007	SJU	Ponce	PR	113	SJU
Aibonito	PR	009	SJU	Quebradillas	PR	115	SJU
Anasco	PR	011	SJU	Rincon	PR	117	SJU
Arecibo	PR	013	SJU	Rio Grande	PR	119	SJU
Arroyo	PR	015	SJU	Sabana Grande	PR	121	SJU
Barceloneta	PR	017	SJU	Salinas	PR	123	SJU
Barranquitas	PR	019	SJU	San German	PR	125	SJU
Bayamon	PR	021	SJU	San Juan	PR	127	SJU
Cabo Rojo	PR	023	SJU	San Lorenzo	PR	129	SJU
Caguas	PR	025	SJU	San Sebastian	PR	131	SJU
Camuy	PR	027	SJU	Santa Isabel	PR	133	SJU
Canovanas	PR	029	SJU	Toa Alta	PR	135	SJU
Carolina	PR	031	SJU	Toa Baja	PR	137	SJU
Catano	PR	033	SJU	Trujillo Alto	PR	139	SJU
Cayey	PR	035	SJU	Utua	PR	141	SJU
Ceiba	PR	037	SJU	Vega Alta	PR	143	SJU
Ciales	PR	039	SJU	Vega Baja	PR	145	SJU
Cidra	PR	041	SJU	Vieques	PR	147	SJU
Coamo	PR	043	SJU	Villalba	PR	149	SJU
Comerio	PR	045	SJU	Yabucoa	PR	151	SJU
Corozal	PR	047	SJU	Yauco	PR	153	SJU
Culebra	PR	049	SJU	Saint Croix	VI	010	SJU
Dorado	PR	051	SJU	Saint John	VI	020	SJU
Fajardo	PR	053	SJU	Saint Thomas	VI	030	SJU
Florida	PR	054	SJU				
Guanica	PR	055	SJU	Coffee	AL	031	TAE

Dale	AL	045	TAE	Citrus	FL	017	TBW
Geneva	AL	061	TAE	DeSoto	FL	027	TBW
Henry	AL	067	TAE	Hardee	FL	049	TBW
Houston	AL	069	TAE	Hernando	FL	053	TBW
Bay	FL	005	TAE	Highlands	FL	055	TBW
Calhoun	FL	013	TAE	Hillsborough	FL	057	TBW
Dixie	FL	029	TAE	Lee	FL	071	TBW
Franklin	FL	037	TAE	Levy	FL	075	TBW
Gadsden	FL	039	TAE	Manatee	FL	081	TBW
Gulf	FL	045	TAE	Pasco	FL	101	TBW
Holmes	FL	059	TAE	Pinellas	FL	103	TBW
Jackson	FL	063	TAE	Polk	FL	105	TBW
Jefferson	FL	065	TAE	Sarasota	FL	115	TBW
Lafayette	FL	067	TAE	Sumter	FL	119	TBW
Leon	FL	073	TAE				
Liberty	FL	077	TAE	Benton	AR	007	TSA
Madison	FL	079	TAE	Carroll	AR	015	TSA
Taylor	FL	123	TAE	Crawford	AR	033	TSA
Wakulla	FL	129	TAE	Franklin	AR	047	TSA
Walton	FL	131	TAE	Madison	AR	087	TSA
Washington	FL	133	TAE	Sebastian	AR	131	TSA
Baker	GA	007	TAE	Washington	AR	143	TSA
Ben Hill	GA	017	TAE	Adair	OK	001	TSA
Berrien	GA	019	TAE	Cherokee	OK	021	TSA
Brooks	GA	027	TAE	Choctaw	OK	023	TSA
Calhoun	GA	037	TAE	Craig	OK	035	TSA
Clay	GA	061	TAE	Creek	OK	037	TSA
Colquitt	GA	071	TAE	Delaware	OK	041	TSA
Cook	GA	075	TAE	Haskell	OK	061	TSA
Decatur	GA	087	TAE	Latimer	OK	077	TSA
Dougherty	GA	095	TAE	Le Flore	OK	079	TSA
Early	GA	099	TAE	McIntosh	OK	091	TSA
Grady	GA	131	TAE	Mayes	OK	097	TSA
Irwin	GA	155	TAE	Muskogee	OK	101	TSA
Lanier	GA	173	TAE	Nowata	OK	105	TSA
Lee	GA	177	TAE	Okfuskee	OK	107	TSA
Lowndes	GA	185	TAE	Okmulgee	OK	111	TSA
Miller	GA	201	TAE	Osage	OK	113	TSA
Mitchell	GA	205	TAE	Ottawa	OK	115	TSA
Quitman	GA	239	TAE	Pawnee	OK	117	TSA
Randolph	GA	243	TAE	Pittsburg	OK	121	TSA
Seminole	GA	253	TAE	Pushmataha	OK	127	TSA
Terrell	GA	273	TAE	Rogers	OK	131	TSA
Thomas	GA	275	TAE	Sequoyah	OK	135	TSA
Tift	GA	277	TAE	Tulsa	OK	143	TSA
Turner	GA	287	TAE	Wagoner	OK	145	TSA
Worth	GA	321	TAE	Washington	OK	147	TSA
Charlotte	FL	015	TBW				

5.1.4 Listing by Western Region WFOs

county	state	primary	name	code	FIPS	wfo
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Ada	ID	001	BOI	Roosevelt	MT	085	GGW
Adams	ID	003	BOI	Sheridan	MT	091	GGW
Boise	ID	015	BOI	Valley	MT	105	GGW
Camas	ID	025	BOI	Wibaux	MT	109	GGW
Canyon	ID	027	BOI				
Elmore	ID	039	BOI	Fresno	CA	019	HNX
Gem	ID	045	BOI	Kern	CA	029	HNX
Gooding	ID	047	BOI	Kings	CA	031	HNX
Jerome	ID	053	BOI	Madera	CA	039	HNX
Owyhee	ID	073	BOI	Mariposa	CA	043	HNX
Payette	ID	075	BOI	Merced	CA	047	HNX
Twin Falls	ID	083	BOI	Tulare	CA	107	HNX
Valley	ID	085	BOI	Tuolumne	CA	109	HNX
Washington	ID	087	BOI				
Baker	OR	001	BOI	Elko	NV	007	LKN
Harney	OR	025	BOI	Eureka	NV	011	LKN
Malheur	OR	045	BOI	Humboldt	NV	013	LKN
				Lander	NV	015	LKN
				White Pine	NV	033	LKN
Big Horn	MT	003	BYZ				
Carbon	MT	009	BYZ				
Carte	rMT	011	BYZ	Los Angeles	CA	037	LOX
Custer	MT	017	BYZ	San Luis Obispo	CA	079	LOX
Fallon	MT	025	BYZ	Santa Barbara	CA	083	LOX
Golden Valley	MT	037	BYZ	Ventura	CA	111	LOX
Musselshell	MT	065	BYZ				
Park	MT	067	BYZ	Modoc	CA	049	MFR
Powder River	MT	075	BYZ	Siskiyou	CA	093	MFR
Rosebud	MT	087	BYZ	Coos	OR	011	MFR
Stillwater	MT	095	BYZ	Curry	OR	015	MFR
Sweet Grass	MT	097	BYZ	Douglas	OR	019	MFR
Treasure	MT	103	BYZ	Jackson	OR	029	MFR
Wheatland	MT	107	BYZ	Josephine	OR	033	MFR
Yellowstone	MT	111	BYZ	Klamath	OR	035	MFR
Sheridan	WY	033	BYZ	Lake	OR	037	MFR
Del Norte	CA	015	EKA	Clearwater	ID	035	MSO
Humboldt	CA	023	EKA	Idaho	ID	049	MSO
Mendocino	CA	045	EKA	Lemhi	ID	059	MSO
Trinity	CA	105	EKA	Deer Lodge	MT	023	MSO
				Flathead	MT	029	MSO
Apache	AZ	001	FGZ	Granite	MT	039	MSO
Coconino	AZ	005	FGZ	Lake	MT	047	MSO
Gila	AZ	007	FGZ	Lincoln	MT	053	MSO
Navajo	AZ	017	FGZ	Mineral	MT	061	MSO
Yavapai	AZ	025	FGZ	Missoula	MT	063	MSO
				Powell	MT	077	MSO
Daniels	MT	019	GGW	Ravalli	MT	081	MSO
Dawson	MT	021	GGW	Sanders	MT	089	MSO
Garfield	MT	033	GGW	Silver Bow	MT	093	MSO
McCone	MT	055	GGW				
Petroleum	MT	069	GGW	Alameda	CA	001	MTR
Phillips	MT	071	GGW	Contra Costa	CA	013	MTR
Prairie	MT	079	GGW	Marin	CA	041	MTR
Richland	MT	083	GGW	Monterey	CA	053	MTR

Napa	CA	055	MTR	Butte	ID	023	PIH
San Benito	CA	069	MTR	Caribou	ID	029	PIH
San Francisco	CA	075	MTR	Cassial	D	031	PIH
San Mateo	CA	081	MTR	Clark	ID	033	PIH
Santa Clara	CA	085	MTR	Custer	ID	037	PIH
Santa Cruz	CA	087	MTR	Fremont	ID	043	PIH
Sonoma	CA	097	MTR	Jefferson	ID	051	PIH
				Lincoln	ID	063	PIH
Benewah	ID	009	OTX	Madison	ID	065	PIH
Bonner	ID	017	OTX	Minidoka	ID	067	PIH
Boundary	ID	021	OTX	Oneida	ID	071	PIH
Kootenai	ID	055	OTX	Power	ID	077	PIH
Latah	ID	057	OTX	Teton	ID	081	PIH
Lewis	ID	061	OTX				
Nez Perce	ID	069	OTX	Benton	OR	003	PQR
Shoshone	ID	079	OTX	Clackamas	OR	005	PQR
Adams	WA	001	OTX	Clatsop	OR	007	PQR
Asotin	WA	003	OTX	Columbia	OR	009	PQR
Chelan	WA	007	OTX	Hood River	OR	027	PQR
Douglas	WA	017	OTX	Lane	OR	039	PQR
Ferry	WA	019	OTX	Lincoln	OR	041	PQR
Garfield	WA	023	OTX	Linn	OR	043	PQR
Grant	WA	025	OTX	Marion	OR	047	PQR
Lincoln	WA	043	OTX	Multnomah	OR	051	PQR
Okanogan	WA	047	OTX	Polk	OR	053	PQR
Pend Oreille	WA	051	OTX	Tillamook	OR	057	PQR
Spokane	WA	063	OTX	Washington	OR	067	PQR
Stevens	WA	065	OTX	Yamhill	OR	071	PQR
Whitman	WA	075	OTX	Clark	WA	011	PQR
				Cowlitz	WA	015	PQR
Crook	OR	013	PDT	Pacific	WA	049	PQR
Deschutes	OR	017	PDT	Skamania	WA	059	PQR
Gilliam	OR	021	PDT	Wahkiakum	WA	069	PQR
Grant	OR	023	PDT				
Jefferson	OR	031	PDT	La Paz	AZ	012	PSR
Morrow	OR	049	PDT	Maricopa	AZ	013	PSR
Sherman	OR	055	PDT	Pinal	AZ	021	PSR
Umatilla	OR	059	PDT	Yuma	AZ	027	PSR
Union	OR	061	PDT	Imperial	CA	025	PSR
Wallowa	OR	063	PDT	Riverside	CA	065	PSR
Wasco	OR	065	PDT				
Wheeler	OR	069	PDT	Alpine	CA	003	REV
Benton	WA	005	PDT	El Dorado	CA	017	REV
Columbia	WA	013	PDT	Lassen	CA	035	REV
Franklin	WA	021	PDT	Mono	CA	051	REV
Kittitas	WA	037	PDT	Nevada	CA	057	REV
Klickitat	WA	039	PDT	Placer	CA	061	REV
Walla Walla	WA	071	PDT	Plumas	CA	063	REV
Yakima	WA	077	PDT	Sierra	CA	091	REV
				Churchill	NV	001	REV
Bannock	ID	005	PIH	Douglas	NV	005	REV
Bingham	ID	011	PIH	Lyon	NV	019	REV
Blaine	ID	013	PIH	Mineral	NV	021	REV
Bonneville	ID	019	PIH	Pershing	NV	027	REV

Storey	NV	029	REV	Uinta	WY	041	SLC
Washoe	NV	031	REV				
Carson City	NV	510	REV	Amador	CA	005	STO
				Butte	CA	007	STO
Clallam	WA	009	SEW	Calaveras	CA	009	STO
Grays Harbor	WA	027	SEW	Colusa	CA	011	STO
Island	WA	029	SEW	Glenn	CA	021	STO
Jefferson	WA	031	SEW	Lake	CA	033	STO
King	WA	033	SEW	Sacramento	CA	067	STO
Kitsap	WA	035	SEW	San Joaquin	CA	077	STO
Lewis	WA	041	SEW	Shasta	CA	089	STO
Mason	WA	045	SEW	Solano	CA	095	STO
Pierce	WA	053	SEW	Stanislaus	CA	099	STO
San Juan	WA	055	SEW	Sutter	CA	101	STO
Skagit	WA	057	SEW	Tehama	CA	103	STO
Snohomish	WA	061	SEW	Yolo	CA	113	STO
Thurston	WA	067	SEW	Yuba	CA	115	STO
Whatcom	WA	073	SEW				
				Beaverhead	MT	001	TFX
Orange	CA	059	SGX	Blaine	MT	005	TFX
San Bernardino	CA	071	SGX	Broadwater	MT	007	TFX
San Diego	CA	073	SGX	Cascade	MT	013	TFX
				Chouteau	MT	015	TFX
Bear Lake	ID	007	SLC	Fergus	MT	027	TFX
Franklin	ID	041	SLC	Gallatin	MT	031	TFX
Beaver	UT	001	SLC	Glacier	MT	035	TFX
Box Elder	UT	003	SLC	Hill	MT	041	TFX
Cache	UT	005	SLC	Jefferson	MT	043	TFX
Carbon	UT	007	SLC	Judith Basin	MT	045	TFX
Davis	UT	011	SLC	Lewis and Clark	MT	049	TFX
Duchesne	UT	013	SLC	Liberty	MT	051	TFX
Emery	UT	015	SLC	Madison	MT	057	TFX
Garfield	UT	017	SLC	Meagher	MT	059	TFX
Iron	UT	021	SLC	Pondera	MT	073	TFX
Juab	UT	023	SLC	Teton	MT	099	TFX
Kane	UT	025	SLC	Toole	MT	101	TFX
Millard	UT	027	SLC				
Morgan	UT	029	SLC	Cochise	AZ	003	TWC
Piute	UT	031	SLC	Graham	AZ	009	TWC
Rich	UT	033	SLC	Greenlee	AZ	011	TWC
Salt Lake	UT	035	SLC	Pima	AZ	019	TWC
Sanpete	UT	039	SLC	Santa Cruz	AZ	023	TWC
Sevier	UT	041	SLC				
Summit	UT	043	SLC	Mohave	AZ	015	VEF
Tooele	UT	045	SLC	Inyo	CA	027	VEF
Utah	UT	049	SLC	Clark	NV	003	VEF
Wasatch	UT	051	SLC	Esmeralda	NV	009	VEF
Washington	UT	053	SLC	Lincoln	NV	017	VEF
Wayne	UT	055	SLC	Nye	NV	023	VEF
Weber	UT	057	SLC				

5.1.5 Listing by Alaskan Region WFOs

county	state	primary	name	code	FIPS	wfo
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—				North Slope	AK	185	AFG
Aleutians East	AK	013	AFC	Northwest Arctic	AK	188	AFG
Aleutians West	AK	016	AFC	Southeast Fairbanks	AK	240	AFG
Anchorage	AK	020	AFC	Wade Hampton	AK	270	AFC
Bethel	AK	050	AFC	Yukon-Koyukuk	AK	290	AFG
Bristol Bay	AK	060	AFC				
Denali	AK	068	AFC	Haines	AK	100	AJK
Dillingham	AK	070	AFC	Juneau	AK	210	AJK
Kenai Peninsula	AK	122	AFC	Ketchikan Gateway	AK	130	AJK
Kodiak Island	AK	150	AFC	Prince Wales-Ketchikan	AK	201	AJK
Lake and Peninsula	AK	164	AFC	Sitka	AK	220	AJK
Matanuska-Susitna	AK	170	AFC	Skagway-Hoonah-Angoon	AK	232	AJK
Valdez-Cordova	AK	261	AFC	Wrangell-Petersburg	AK	280	AJK
				Yakutat	AK	282	AJK
Fairbanks-North Star	AK	090	AFG				
Nome	AK	180	AFG				

5.1.6 Listing by Pacific Region WFOs

county	state		primary	Maui	HI	009	HFO
<u>name</u>	<u>code</u>	<u>FIPS</u>	<u>wfo</u>	Midway Islands	UM	300	HFO
Eastern	AS	010	HFO				
Manu'a	AS	020	HFO	Guam	GU	010	GUM
Rose Island	AS	030	HFO	Northern Islands	MP	085	GUM
Swains Island	AS	040	HFO	Rota	MP	100	GUM
Western	AS	050	HFO	Saipan	MP	110	GUM
Hawaii	HI	001	HFO	Tinian	MP	120	GUM
Honolulu	HI	003	HFO				
Kauai	HI	007	HFO				

5.1.7 Miscellaneous

county	state		primary	XXX	KS	XXX	XXX
<u>name</u>	<u>code</u>	<u>FIPS</u>	<u>wfo</u>	XXX	KY	XXX	XXX
XXX	AL	XXX	XXX	XXX	LA	XXX	XXX
XXX	AK	XXX	XXX	XXX	ME	XXX	XXX
XXX	AZ	XXX	XXX	XXX	MD	XXX	XXX
XXX	AR	XXX	XXX	XXX	MA	XXX	XXX
XXX	CA	XXX	XXX	XXX	MI	XXX	XXX
XXX	CO	XXX	XXX	XXX	MN	XXX	XXX
				XXX	MS	XXX	XXX
XXX	CT	XXX	XXX	XXX	MO	XXX	XXX
XXX	DC	XXX	XXX	XXX	MT	XXX	XXX
XXX	DE	XXX	XXX	XXX	NE	XXX	XXX
XXX	FL	XXX	XXX	XXX	NV	XXX	XXX
XXX	GA	XXX	XXX	XXX	NH	XXX	XXX
XXX	HI	XXX	XXX	XXX	NJ	XXX	XXX
XXX	ID	XXX	XXX	XXX	NM	XXX	XXX
XXX	IL	XXX	XXX	XXX	NY	XXX	XXX
XXX	IN	XXX	XXX	XXX	NC	XXX	XXX
XXX	IA	XXX	XXX	XXX	ND	XXX	XXX

XXX	OH	XXX	XXX	XXX	WI	XXX	XXX
XXX	OK	XXX	XXX	XXX	WY	XXX	XXX
XXX	OR	XXX	XXX	XXX	PR	XXX	XXX
XXX	PA	XXX	XXX	XXX	VI	XXX	XXX
XXX	RI	XXX	XXX	XXX	AS	XXX	XXX
XXX	SC	XXX	XXX	XXX	FM	XXX	XXX
XXX	SD	XXX	XXX	XXX	GU	XXX	XXX
XXX	TN	XXX	XXX	XXX	MH	XXX	XXX
XXX	TX	XXX	XXX	XXX	MP	XXX	XXX
XXX	UT	XXX	XXX	XXX	PW	XXX	XXX
XXX	VT	XXX	XXX	XXX	UM	XXX	XXX
XXX	VA	XXX	XXX				
XXX	WA	XXX	XXX				
XXX	WV	XXX	XXX				

5.2 Canada

Default entries for counties table only.

<u>county name</u>	<u>state code</u>	<u>FIPS</u>	<u>primary wfo</u>	XXX	NS	XXX	XXX
XXX	AB	XXX	XXX	XXX	ON	XXX	XXX
XXX	BC	XXX	XXX	XXX	PE	XXX	XXX
XXX	MB	XXX	XXX	XXX	PQ	XXX	XXX
XXX	NB	XXX	XXX	XXX	SK	XXX	XXX
XXX	NF	XXX	XXX	XXX	YT	XXX	XXX
XXX	NT	XXX	XXX	XXX	NV	XXX	XXX

5.3 Mexico

Default entries for counties table only.

<u>county name</u>	<u>state code</u>	<u>FIPS</u>	<u>primary wfo</u>	XXX	MR	XXX	XXX
XXX	AG	XXX	XXX	XXX	NA	XXX	XXX
XXX	BN	XXX	XXX	XXX	NL	XXX	XXX
XXX	BS	XXX	XXX	XXX	OA	XXX	XXX
XXX	CM	XXX	XXX	XXX	PU	XXX	XXX
XXX	CI	XXX	XXX	XXX	QA	XXX	XXX
XXX	CH	XXX	XXX	XXX	QR	XXX	XXX
XXX	CZ	XXX	XXX	XXX	SI	XXX	XXX
XXX	CL	XXX	XXX	XXX	SO	XXX	XXX
XXX	DF	XXX	XXX	XXX	TB	XXX	XXX
XXX	DU	XXX	XXX	XXX	TM	XXX	XXX
XXX	GU	XXX	XXX	XXX	TL	XXX	XXX
XXX	GE	XXX	XXX	XXX	VL	XXX	XXX
XXX	HD	XXX	XXX	XXX	YU	XXX	XXX
XXX	JA	XXX	XXX		ZA	XXX	XXX
XXX	MX	XXX	XXX				
XXX	MC	XXX	XXX				

6.0 River Forecast Center Table

There are currently 13 River Forecast Centers (RFC). Each RFC has a 5 character acronym of which the last 3 letters are RFC, thus this table only contains the first 2 characters. The description and location information are not part of the table but are provided as supplemental information for this document.

<u>acronym</u>	<u>description</u>	<u>location</u>	<u>Identifier</u>
AB	Arkansas-Red Basin	Tulsa, OK	TUA
AP	Alaska-Pacific	Anchorage, AK	ACR
CB	Colorado Basin	Salt Lake City, UT	STR
CN	California-Nevada	Sacramento, CA	RSA
LM	Lower Mississippi	Slidell, LA	ORN
MA	Mid-Atlantic	State College, PA	RHA
MB	Missouri Basin	Pleasant Hill, MO	KRF
NC	North Central	Chanhassen, MN	MSR
NE	Northeast	Tauton, MA	TAR
NW	Northwest	Portland, OR	PTR
OH	Ohio	Wilmington, OH	TIR
SE	Southeast	Peachtree City, GA	ALR
WG	West Gulf	Fort Worth, TX	FWR
XX	not defined		

7.0 Weather Forecast Office/Hydrologic Service Area Table

Information for this table was extracted from “dbf” file obtained from the following NWS web site: <http://www.awips.noaa.gov/mapdata/newcat/>. The name is not part of the table but is added as supplemental information for this document.

<u>identifier</u>	<u>name</u>		
ABQ	Albuquerque, NM	BOX	Boston, MA
ABR	Aberdeen, SD	BRO	Brownsville, TX
AFC	Anchorage, AK	BTV	Burlington, VT
AFG	Fairbanks, AK	BUF	Buffalo, NY
AJK	Juneau, AK	BYZ	Billings, MT
AKQ	Wakefield, VA	CAE	Columbia, SC
ALY	Albany, NY	CAR	Caribou, ME
AMA	Amarillo, TX	CHS	Charleston, SC
APX	North Central Lower Michigan	CLE	Cleveland, OH
ARX	La Cross, WI	CRP	Corpus Christi, TX
BGM	Binghamton, NY	CTP	Central Pennsylvania
BIS	Bismarck, ND	CYS	Cheyenne, WY
BMX	Birmingham, AL	DDC	Dodge City, KS
BOI	Boise, ID	DLH	Duluth, MN
BOU	Denver/Boulder, CO	DMX	Des Moines, IA
		DTX	Detroit, MI

DVN	Auad Cities, IA	MFR	Medford, OR
EAX	Kansas City/Pleasant Hill, MO	MHX	Morehead City, NC
EKA	Eureka, CA	MKX	Milwaukee, WI
EPZ	El Paso, TX	MLB	Melbourne, FL
EWX	Austin/San Antonio, TX	MOB	Mobile, AL
EYW	Key West, FL	MPX	Minneapolis, MN
FFC	Atlanta, GA	MQT	Marquette, MI
FGF	Eastern North Dakota	MRX	Knoxville/Tri Cites, TN
FGZ	Flagstaff, AZ	MSO	Missoula, MT
FSD	Sioux Falls, SD	MTR	San Francisco Bay Area, CA
FWD	Dallas/Fort Worth, TX	OAX	Omaha, NE
GGW	Glasgow, MT	OHX	Nashville, TN
GID	Hastings, NE	OKX	New York City, NY
GJT	Grand Junction, CO	OTX	Spokane, WA
GLD	Goodland, KS	OUN	Oklahoma City, OK
GRB	Treen Bay, WI	PAH	Paducah, KY
GRR	Grand Rapids, MI	PBZ	Pittsburgh, PA
GSP	Greenville./Spartanburg, SC	PDT	Pendleton, OR
GUM	Guam	PHI	Philadelphia, PA
GYX	Portland, ME	PIH	Pocatello/Idaho Falls, ID
HFO	Honolulu, HI	PQR	Portland, OR
HGX	Houston/Galveston, TX	PSR	Phoenix, AZ
HNX	San Josquin Valley, CA	PUB	Pueblo, CO
HUN	Huntsville, AL	RAH	Raleigh/Durham, NC
ICT	Wichita, KS	REV	Reno, NV
ILM	Wilmington, NC	RIW	Riverton, WY
ILN	Cincinnati, OH	RLX	Charleston, WV
ILX	Central Illinois	RNK	Roanoke, VA
IND	Indianapolis, IN	SEW	Seattle/Tacoma, WA
IWX	Northern Indiana, IN	SGF	Springfield, MO
JAN	Jackson, MS	SGX	San Diego, CA
JAX	Jacksonville, FL	SHV	Sheveport, LA
JKL	Jackson, KY	SJT	San Angelo, TX
LBF	North Platte, NE	SJU	San Juan, PR
LCH	Lake Charles, LA	SLC	Salt Lake City, UT
LIX	New Orleans/Baton Rouge, LA	STO	Sacramento, CA
LKN	Elko, NV	TAE	Tallahassee, FL
LMK	Louisville, KY	TBW	Tampa Bay Area, FL
LOT	Chicago, IL	TFX	Great Falls, MT
LOX	Los Angeles, CA	TOP	Topeka, KS
LSX	St. Louis, MO	TSA	Tulsa, OK
LUB	Lubbick, TX	TWC	Tucson, AZ
LWX	Batimore, MD/Washington D.C.	UNR	Rapid City, SD
LZK	Little Rock, AR	VEF	Las Vegas, NV
MAF	Midland/Odess, TX	XXX	not defined
MEG	Memphis, TN		
MFL	Miami, FL		

8.0 SHEF Tables

The information for this suite of tables was obtained from the IHFS database and CBRFC fastetc database. The data was supplemented with information in the SHEF version 2.0

draft document and the proposed request for change submitted by the RFC Archive DB team.

8.1 shefpe1

<u>1st char PE</u>	<u>description</u>	<u>1st char PE</u>	<u>description</u>
A	Agricultural	O	Not Used
B		P	Pressure & Precip
C		Q	Discharge
D	Reserved	R	Radiation
E	Evaporation	S	Snow
F	Fish Count	T	Temperature
G	Ground Frost & State	U	Wind
H	Height	V	Generation/Generator
I	Ice Codes	W	Water Quality
J	Reserved	X	Weather Codes
K	Reserved	Y	Unique
L	Lake	Z	Reserved
M	Moisture & Fire/Fuel		
N	Gate and Dam Data		

8.2 shefpe

<u>1st char PE</u>	<u>2nd char PE</u>	<u>description</u>	<u>English Units</u>	<u>Metric Units</u>
A	D	Reserved		
A	F	Sfc Frost Intensity	code	code
A	G	Percent Green Veg	%	%
A	M	Sfc Dew Intensity c	ode	code
A	T	Time Below 25 deg F	hh:mm	hh:mm
A	U	Time Below 32 deg F	hh:mm	hh:mm
A	W	Leaf Wetness Time	hh:mm	hh:mm
B	A	Water Equiv, Solid	in	mm
B	B	Heat Deficit	in	mm
B	C	Liquid Water Storage	in	mm
B	D	Temperature Index	deg F d	eg C
B	E	Max Water Equiv	in	mm
B	F	Areal Water Equiv	in	mm
B	G	Areal Snow Cover	%	%
B	H	Water Equiv Above100	in	mm
B	I	Excess Liquid Water	in	mm
B	J	Areal Snow Cover Adj	in	mm
B	K	Excess Liq Water, L1	in	mm
B	L	Excess Liq Water, L2	in	mm
B	M	Excess Liq Water, L3 I	n	mm
B	N	Excess Liq Water, L4	in	mm
B	O	Excess Liq Water, L5	in	mm
B	P	Excess Liq Water, L6 I	n	mm
B	Q	Excess Liq Water, L7	in	mm
C	A	UpZone Tension Water	in	mm
C	B	UpperZone Free Water	in	mm
C	C	LwZone Tension Water	in	mm
C	D	LZone Free Water Sup	in	mm
C	E	LZone Free Water Pri I	n	mm
C	F	Addl Impervious Area	in	mm
C	G	Antecedent Preciplnd I	n mm	

C	H	Soil Moist Index Def	in	mm
C	I	Base Flow Storage	in	mm
C	J	Base Flow Index	in	mm
C	K	First Quad Index AEI	in	mm
C	L	First Quad Index ATI	deg F	deg C
C	M	Frost Index	deg F	deg C
C	N	Frost Efficiency Ind	%	%
C	O	First Quad Ind Indic	code	code
C	P	Storm Total Rainfall	in	mm
C	Q	Storm Total Runoff	in	mm
C	R	Storm Antecedent Ind	in	mm
C	S	Current Antecedent I	in	mm
C	T	Storm Period Counter	count	count
C	U	Avg Air Temperature	deg F	deg C
C	V	Curr Corr Synth Temp	deg F	deg C
C	W	Storm AEI	in	mm
C	X	Current AEI	in	mm
C	Y	Current API	in	mm
C	Z	Climate Index	code	code
E	A	Evap Trans Potential	in	mm
E	D	Evap Pan Depth	in	mm
E	M	Evap Trans Amount	in	mm
E	P	Evap Pan Increment	in	mm
E	R	Evap Rate	in/day	mm/day
E	T	Evap Trans Total	in	mm
E	V	Evap Lake Computed	in	mm
F	A	Shad Fish Count	count	count
F	B	Sockeye Fish Count	count	count
F	C	Chinook Fish Count	count	count
F	E	Chum Fish Count	count	count
F	K	Coho Fish Count	count	count
F	L	Fish Ladder	code	code
F	P	Pink Fish Count	count	count
F	S	Steelhead Fish Count	count	count
F	T	Fish Type	code	code
F	Z	Combined Fish Count	count	count
G	D	Frost Penetr Depth	in	cm
G	R	Frost Report	code	code
G	S	Ground State	code	code
G	T	Sfc Frost Thawed Dep	in	cm
H	A	Reading Height - Sfc	ft	m
H	B	Depth Below Sfc	ft	m
H	C	Ceiling Height	ft	m
H	D	Head Height	ft	m
H	E	Regulating Gate	ft	m
H	F	Forebay Elevation	ft	m
H	G	River Stage	ft	m
H	H	Reading Height - MSL	ft	m
H	I	Stage Trnd Indicator	code	code
H	J	Spillway Gate Height	ft	m

H	K	Lake Elev Abv Datum	ft	m
H	L	Lake Elevation	ft	m
H	M	Tide Height	ft	m
H	O	Flood Stage Height	ft	m
H	P	Pool Elevation	ft	m
H	Q	Distance to River	code	code
H	R	Reservoir Rule Elev	ft	m
H	S	Spillwy Forebay Elev	ft	m
H	T	Tailwater Elev	ft	m
H	U	Cautionary Stage Hgt	ft	m
H	W	Spillway Tailwater	ft	m
H	Z	Freezing Level Elev	kft	km
I	C	Ice Cover	%	%
I	E	Extent of Ice	mi	km
I	O	Extent of Open Water	ft	m
I	R	Ice Report	code	code
I	T	Ice Thickness	in	cm
L	A	Lake Surface Area	k-acres	km2
L	C	Lake Stor Vol Change	kaf	mcm
L	S	Lake Storage Volume	kaf	mcm
M	D	Dielectric Constant at Depth		
M	I	Moisture Index	in	cm
M	L	Lower Zone Moisture	in	cm
M	M	Wood Moisture	%	%
M	N	Soil Salinity at depth	gm/liter @x in	
M	S	Soil Moisture Amount	code	code
M	T	Wood Temperature	deg F	deg C
M	U	Upper Zone Moisture	in	cm
M	W	Soil Moisture Weight	%	%
N	C	River Control Switch	code	code
N	G	Gate Openings Total	ft	m
N	L	Large Flash Boards	count	count
N	N	Spillway Gate Number	code	code
N	O	Spec. Gate Opening	code	code
N	S	Small Flash Boards	count	count
P	A	Atmospheric Pressure	in-HG	k-pascal
P	C	Precip Accumulator	in	mm
P	D	3-hour Press Change	in-HG	k-pascal
P	E	Press Characteristic	code	code
P	L	Sea Level Pressure	mb	k-pascal
P	M	Prob Meas Precip	code	code
P	N	Precip Normal	in	mm
P	P	Precip Increment	in	mm
P	R	Precip Rate	in/day	mm/day
P	T	Precip Type	code	code
Q	A	Adjusted Discharge	kcfs	cms
Q	B	Runoff Depth	in	mm
Q	C	Runoff Volume	kaf	mcm

Q	D	Canal Divers. Dschrg	kcfs	cms
Q	E	Flow Diverted	%	%
Q	F	Discharge Velocity	mph	km/hr
Q	G	Generation Discharge	kcfs	cms
Q	I	Inflow Discharge	kcfs	cms
Q	L	Discharge Rule Curve	kcfs	cms
Q	M	Preproj Conditions	kcfs	cms
Q	P	Pumping Discharge	kcfs	cms
Q	R	River Discharge	kcfs	cms
Q	S	Spillway Discharge	kcfs	cms
Q	T	Total Discharge	kcfs	cms
Q	U	Outlet Discharge	kcfs	cms
Q	V	Cumulative Vol Incr	kaf	mcm
Q	W	Discharge, municipal w.s.	mgd/mi2	cmd/ km2
R	A	Albedo Radiation	%	%
R	I	Accum Incoming Radiation	langleys	langleys
R	N	Radiationnet radiometers	watts	m2
R	P	Possible Radiation	%	%
R	T	Total Radiation Time	hrs	hrs
R	W	Total Incoming Radiation	watts	m2
S	A	Areal Snowfall	%	%
S	D	Snow Depth	in	cm
S	F	New Snowfall	in	cm
S	I	Snow Depth on Ice	in	cm
S	L	Snowline Elevation	kft	m
S	R	Snow Report	code	code
S	S	Snow Density	ratio	ratio
S	T	Snow Temp at Depth	code	code
S	W	Snow Water Equiv	in	mm
T	A	Air Temperature	deg F	deg C
T	B	Soil Temp at Depth	code	code
T	C	Cooling Degree Days	degFdays	degCdays
T	D	Dew Point Temp	deg F	deg C
T	E	Air Temp at Elev	code	code
T	F	Freezing Degree Days	degFdays	degCdays
T	H	Heating Degree Days	degFdays	degCdays
T	M	Wet Bulb Temperature	deg F	deg C
T	P	Pan Water Temp	deg F	deg C
T	S	Soil Temp at Sfc	deg F	deg C
T	V	Veg Soil Temp	code	code
T	W	Water Temperature	deg F	deg C
U	C	Accumulated Wind	mi	km
U	D	Wind Direction	degrees	degrees
U	G	Wind Gust Speed	mph	m/s
U	L	Wind Travel Length	mi	km
U	P	Peak Wind Speed	mph	m/s
U	Q	Wind Direct & Speed	code	code
U	R	Wind Dir at Peak Spd	degrees	degrees
U	S	Wind Speed	mph	m/s

V	B	Battery Voltage	volts	volts
V	C	Capacity Generation	mwatts	mwatts
V	E	Energy Gener Total	mwatt-hr	mwatt-hr
V	G	Power Produced	mwatts	mwatts
V	H	Time Generation	hrs	hrs
V	J	Energy Produced	mwatt-hr	mwatt-hr
V	K	Energy Reserv Only	mwattdur	mwattdur
V	L	Natural Flow Only	mwattdur	mwattdur
V	M	Spill/Water Losses	mwattdur	mwattdur
V	P	Power Used @ Pump	mwatts	mwatts
V	Q	Total Energy Used	mwatt-hr	mwatt-hr
V	R	Energy Potential	mwattdur	mwattdur
V	S	Energy Used @ Stn	mwatt-hr	mwatt-hr
V	T	Total Power	mwatts	mwatts
V	U	Generator Status	code	code
V	W	Power Used @ Station	mwatts	mwatts
W	A	Nitrogen & Argon	ppm	mg/l
W	C	Conductance	uMHOS/cm	uMHOS/cm
W	D	Piezometer water depth	in	cm
W	G	Total Gas Pressure	in-HG	mm-HG
W	H	Hydrogen Sulfide	ppm	mg/l
W	L	Suspended Sediment	ppm	mg/l
W	O	Oxygen	ppm	mg/l
W	P	PH Value	PH	PH
W	T	Turbidity	jtu	jtu
W	V	Water Velocity	ft/s	m/s
X	C	Total Sky Cover	tenths	tenths
X	G	Total Lightning Cnt	count	count
X	L	Point Strike	count	count
X	P	Past Weather	code	code
X	R	Relative Humidity	%	%
X	U	Absolute Humidity	g/ft3	g/m3
X	V	Visibility	mi	km
X	W	Present Weather	code	code
Y	A	15m Per Above Stage	count	count
Y	C	Random Rep Seq Num	seq num	seq num
Y	F	Forward Power	watts	watts
Y	R	Reflected Power	watts	watts
Y	S	DCP Trans Seq Num	seq num	seq num
Y	T	15m Per Since Precip	count	count

8.3 shefdur

numeric value	SHEF code	description			
0	I	Instantaneous	1001	H	1 Hour
1	U	1 Minute	1002	B	2 Hour
15	C	15 Minutes	1003	T	3 Hour
30	J	30 Minutes	1004	F	4 Hour
			1006	Q	6 Hour
			1008	A	8 Hour

1012	K	12 Hour	5000	Z	Unspecified
1018	L	18 Hour	5001	S	Seasonal
			5002	R	Period of Record
2001	D	1 Day	9999	V	Variable
2007	W	1 Week	5004	P	Total Since 7 AM
2015	N	Mid Month,1st - 15th	5005	X	Unknown
3001	M	1 Month			
4001	Y	1 Year			

8.4 shefts

type	source	description	C	J	Contingency J
C		Contingency	C	K	Contingency K
C	1	Contingency 1	C	L	Contingency L
C	2	Contingency 2	C	M	Contingency M
C	3	Contingency 3	C	N	Contingency N
C	4	Contingency 4	C	O	Contingency O
C	5	Contingency 5	C	P	Contingency P
C	6	Contingency 6	C	Q	Contingency Q
C	7	Contingency 7	C	R	Contingency R
C	8	Contingency 8	C	S	Contingency S
C	9	Contingency 9	C	T	Contingency T
C	F	Contingency for FFG	C	U	Contingency U
C	A	Contingency A	C	V	Contingency V
C	B	Contingency B	C	W	Contingency W
C	C	Contingency C	C	X	Contingency X
C	D	Contingency D	C	Y	Contingency Y
C	E	Contingency E	C	Z	Nonspec Contingency
C	G	Contingency G			
C	H	Contingency H			
C	I	Contingency I			
F		Forecast	M	S	SAC-SMA
F	A	Adjusted Model 1	M	A	Cont. API
F	B	Adjusted Model 2	M	K	KC-API
F	C	Adjusted Model 3	M	C	Cin-API
F	D	Adjusted Model 4	M	H	H-API
F	E	External Public Fcst	M	T	H-API
F	F	Forecast uses QPF	M	W	Snow-17
F	G	Resvr Release Fcst			
F	M	Manual Method 1	P		Processed
F	N	Manual Method 2	P	A	Process 1
F	P	Manual Method 3	P	B	Process 2
F	Q	Manual Method 4	P	C	Process 3
F	U	Unadjusted Model 1	P	D	Process 4
F	V	Unadjusted Model 2	P	M	Processed Mean Areal
F	W	Unadjusted Model 3	P	E	Process 5
F	X	Unadjusted Model 4	P	F	Process 6
F	Z	Nonspecific Forecast	P	G	Process 7
			P	H	Process 8
H		Reserved for	P	I	Process 9
		Historical	P	J	Process 10
			P	K	Process 11
M		Model	P	L	Process 12

P	N	Process 13	7	G	Process L7, GOES
P	O	Process 14	8	G	Process L8, GOES
P	P	Process 15	9	G	Process L9, GOES
P	Q	Process 16	1	M	Process L1, Meteor
P	R	Process 17	2	M	Process L2, Meteor
P	S	Process 18	3	M	Process L3, Meteor
P	T	Process 19	4	M	Process L4, Meteor
P	U	Process 20	5	M	Process L5, Meteor
P	V	Process 21	6	M	Process L6, Meteor
P	W	Process 22	7	M	Process L7, Meteor
P	X	Process 23	8	M	Process L8, Meteor
P	Y	Process 24	9	M	Process L9, Meteor
P	Z	Nonspec Processed	1	P	Process L1, Phone
			2	P	Process L2, Phone
R		Reading	3	P	Process L3, Phone
R	2	2nd SENSOR	4	P	Process L4, Phone
R	3	3rd SENSOR	5	P	Process L5, Phone
R	4	4th SENSOR	6	P	Process L6, Phone
R	5	5th SENSOR	7	P	Process L7, Phone
R	6	6th SENSOR	8	P	Process L8, Phone
R	7	7th SENSOR	9	P	Process L9, Phone
R	8	8th SENSOR	1	R	Process L1, Radio 1
R	9	9th SENSOR	2	R	Process L2, Radio 1
R	A	Best Quality	3	R	Process L3, Radio 1
R	B	2nd Best Quality	4	R	Process L4, Radio 1
R	C	3rd Best Quality	5	R	Process L5, Radio 1
R	D	4th Best Quality	6	R	Process L6, Radio 1
R	F	Airborne	7	R	Process L7, Radio 1
R	G	GOES	8	R	Process L8, Radio 1
R	M	Meteor Burst	9	R	Process L9, Radio 1
R	P	Phone ASCII	1	S	Process L1, Radio 2
R	R	Radio 1	2	S	Process L2, Radio 2
R	S	Radio 2	3	S	Process L3, Radio 2
R	T	Telemark/BDT	4	S	Process L4, Radio 2
R	V	Visual/Manual 1	5	S	Process L5, Radio 2
R	W	Visual/Manual 2	6	S	Process L6, Radio 2
R	X	Visual/Manual 3	7	S	Process L7, Radio 2
R	Z	Nonspecific Observed	8	S	Process L8, Radio 2
			9	S	Process L9, Radio 2
1	F	Process L1, airborne	1	T	Process L1, Telemark
2	F	Process L2, airborne	2	T	Process L2, Telemark
3	F	Process L3, airborne	3	T	Process L3, Telemark
4	F	Process L4, airborne	4	T	Process L4, Telemark
5	F	Process L5, airborne	5	T	Process L5, Telemark
6	F	Process L6, airborne	6	T	Process L6, Telemark
7	F	Process L7, airborne	7	T	Process L7, Telemark
8	F	Process L8, airborne	8	T	Process L8, Telemark
9	F	Process L9, airborne	9	T	Process L9, Telemark
1	G	Process L1, GOES	1	V	Process L1, Visual 1
2	G	Process L2, GOES	2	V	Process L2, Visual 1
3	G	Process L3, GOES	3	V	Process L3, Visual 1
4	G	Process L4, GOES	4	V	Process L4, Visual 1
5	G	Process L5, GOES	5	V	Process L5, Visual 1
6	G	Process L6, GOES	6	V	Process L6, Visual 1

7	V	Process L7, Visual 1	5	X	Process L5, Visual 3
8	V	Process L8, Visual 1	6	X	Process L6, Visual 3
9	V	Process L9, Visual 1	7	X	Process L7, Visual 3
1	W	Process L1, Visual 2	8	X	Process L8, Visual 3
2	W	Process L2, Visual 2	9	X	Process L9, Visual 3
3	W	Process L3, Visual 2	1	Z	Process L1, Nonspec
4	W	Process L4, Visual 2	2	Z	Process L2, Nonspec
5	W	Process L5, Visual 2	3	Z	Process L3, Nonspec
6	W	Process L6, Visual 2	4	Z	Process L4, Nonspec
7	W	Process L7, Visual 2	5	Z	Process L5, Nonspec
8	W	Process L8, Visual 2	6	Z	Process L6, Nonspec
9	W	Process L9, Visual 2	7	Z	Process L7, Nonspec
1	X	Process L1, Visual 3	8	Z	Process L8, Nonspec
2	X	Process L2, Visual 3	9	Z	Process L9, Nonspec
3	X	Process L3, Visual 3			
4	X	Process L4, Visual 3			

8.5 shefe

<u>extremum</u>	<u>description</u>			
J	Minimum of record	U		Maximum of cal yr
K	Minimum of cal yr	V		Maximum of month
L	Minimum of month	W		Maximum of week
M	Minimum of week	X		Maximum of day
N	Minimum of day	D		Maximum of 1 hour
F	Minimum of 1 hour	E		Maximum of 3 hours
G	Minimum of 3 hours	R		Maximum of 6 hours
H	Minimum of 6 hours	Y		Maximum of 12 hours
P	Minimum of 12 hours	S		Maximum of 18 hours
I	Minimum of 18 hours	Z		filler
T	Maximum of record			

8.6 shefprob

<u>code</u>	<u>probability</u>	<u>description</u>			
A	0.002	Value at or below	T	0.95	Value at or below
B	0.004	Value at or below	U	0.96	Value at or below
C	0.01	Value at or below	V	0.98	Value at or below
D	0.02	Value at or below	W	0.99	Value at or below
E	0.04	Value at or below	X	0.996	Value at or below
F	0.05	Value at or below	Y	0.998	Value at or below
1	0.1	Value at or below	J	0.0013	Val below -3 StdDevs
2	0.2	Value at or below	K	0.0228	Val below -2 StdDevs
G	0.25	Value at or below	L	0.1587	Val below -1 StdDevs
3	0.3	Value at or below	M	0.5	Mean
4	0.4	Value at or below	N	0.8413	Val below +1 StdDevs
5	0.5	Value at or below	P	0.9772	Val below +2 StdDevs
6	0.6	Value at or below	Q	0.9987	Val below +3 StdDevs
7	0.7	Value at or below	Z		Filler
H	0.75	Value at or below			
8	0.8	Value at or below			
9	0.9	Value at or below			

8.7 shefpetrans

This table contains information on meaning of code values for selected SHEF PE codes. This information is covered in the following locations in the SHEF Version 1.3 manual.

<u>SHEF PE code</u>	<u>Reference</u>
AF	Table 20
AM	Table 21
GR	Table 16
GS	Table 18
HI	Table 19
IR	Table 14
NC	Table 1
PE	NWS Handbook #7, Table 10.7
PT	Table 17
SR	Table 15
XP	Appendix D
XW	Appendix C

The database version of this information is as follows.

<u>1ST char</u>	<u>2nd char</u>	<u>code</u>	<u>code</u>	<u>description</u>
<u>PE</u>	<u>PE</u>	<u>position</u>	<u>code</u>	<u>description</u>
A	F	0		No frost
A	F	1		Light frost: thin deposit, more or less patchy
A	F	2		Moderate frost: thick patchy deposit
A	F	3		Heavy frost: copious deposit
A	M	0		None
A	M	1		Light dew: droplets not connected, no dew under trees or in sheltered areas
A	M	2		Moderate dew: droplets mostly connected, surfaces not saturated
A	M	3		Heavy dew: nearly saturated and dripping surfaces
G	R	1		Concrete
G	R	2		Granular
G	R	3		Honeycomb
G	R	4		Stalactite
G	S	0		Surface of ground dry, no cracks, no loose sand
G	S	1		Surface of ground moist
G	S	2		Surface of ground wet, some standing water
G	S	3		Flooded
G	S	4		Surface of ground frozen
G	S	5		Glaze on ground
G	S	6		Loose dry dust or sand not covering ground completely
G	S	7		Thin cover of loose dry dust or sand covering ground completely
G	S	8		Moderate or thick cover of loose, dry dust or sand covering

G	S		9	ground completely
G	S		10	Extremely dry with cracks
G	S		11	Ground predominantly covered by ice
G	S		12	Compact or wet snow covering less than one-half of the ground
G	S		13	Compact or wet snow covering at least one-half of the ground
G	S		14	Even layer of compact or wet snow covering ground completely
G	S		15	Uneven layer of compact or wet snow covering ground completely
G	S		16	Loose dry snow covering less than one-half of the ground
G	S		17	Loose dry snow covering at least one-half of the ground
G	S		18	Even layer of loose, dry snow covering ground completely
G	S		19	Uneven layer of loose, dry snow covering ground completely
G	S		20	Snow covering ground completely in deep drifts
G	S		20	Sleet or hail covering the ground completely
H	I		0	Stationary
H	I		1	Rising
H	I		2	Falling
H	I		3	Unknown
H	I		4	Stationary
H	I		5	Rising
H	I		6	Falling
H	I		7	Frozen
I	R	1	0	No report
I	R	1	1	Running ice
I	R	1	2	Stationary ice
I	R	1	3	Stopped ice
I	R	1	4	Jammed ice
I	R	1	5	Formed locally
I	R	1	6	Shore ice
I	R	1	7	Anchor ice
I	R	1	8	Cake ice
I	R	1	9	Shell ice
I	R	2	0	No report
I	R	2	1	Breaking ice
I	R	2	2	Honeycombed
I	R	2	3	Rotten
I	R	2	4	Layered
I	R	2	5	Clear
I	R	2	6	Hanging
I	R	2	7	Frazil
I	R	2	8	Slush
I	R	2	9	Sheet
I	R	3	0	No ice
I	R	3	1	0% cover
I	R	3	2	20% cover
I	R	3	3	30% cover
I	R	3	4	40% cover
I	R	3	5	50% cover
I	R	3	6	60% cover
I	R	3	7	70% cover
I	R	3	8	80% - 90% cover
I	R	3	9	100% cover

N	C		0	Manual river control
N	C		1	Open river uncontrolled
P	E		0	Increasing, then decreasing
P	E		1	Increasing, then steady, or increasing then increasing more slowly
P	E		2	Increasing steadily or unsteadily
P	E		3	Decreasing or steady, then increasing; or increasing then increasing more rapidly
P	E		4	Steady
P	E		5	Decreasing, then increasing
P	E		6	Decreasing, then steady, or decreasing then decreasing more slowly
P	E		7	Decreasing steadily or unsteadily
P	E		8	Steady or increasing, then decreasing; or decreasing then decreasing more rapidly
P	T		0	Ice prism
P	T		1	Rain
P	T		2	Freezing rain
P	T		3	Drizzle
P	T		4	Freezing drizzle
P	T		5	Snow
P	T		6	Snow pellets
P	T		7	Snow grains
P	T		8	Ice pellets
P	T		9	Hail
S	R	1	0	No report
S	R	1	1	Loosely packed
S	R	1	2	Densely packed
S	R	2	0	No report
S	R	2	1	Wet snow
S	R	2	2	Dry snow
S	R	2	3	Ice layer
S	R	3	0	No report
S	R	3	1	Snow crust
S	R	3	2	Loose
S	R	3	3	Ice
S	R	4	0	No report
S	R	4	1	Uniform
S	R	4	2	Some drifts
S	R	4	3	Drifted
X	P		0	Cloud covering one-half or less of the sky throughout period
X	P		1	Cloud covering more than one-half part of period, less than one-half rest of per
X	P		2	Cloud covering more than one-half of the sky throughout period
X	P		3	Sandstorm, dust storm, or blowing snow
X	P		4	Fog or ice fog or thick haze
X	P		5	Drizzle
X	P		6	Rain
X	P		7	Snow or rain and snow mixed
X	P		8	Shower(s)
X	P		9	Thunderstorm(s) with or without precipitation

X	W	0	Cloud development not observed or not observable
X	W	1	Clouds generally dissolving or becoming less developed
X	W	2	State of sky unchanged
X	W	3	Clouds forming or developing
X	W	4	Smoke
X	W	5	Haze
X	W	6	Widespread dust in suspension not raised by wind at observation time
X	W	7	Dust or sand, or blowing spray, raised by wind at observation time
X	W	8	Well-developed dust whirls and sand whirls at observation time or in past hour
X	W	9	Dust storm or sandstorm within sight at observation time or in past hour
X	W	10	Light fog
X	W	11	Patchy fog or ice fog, shallow
X	W	12	Continuous fog or ice fog, shallow
X	W	13	Lightning visible, no thunder
X	W	14	Precipitation within sight not reaching the ground
X	W	15	Precipitation within sight reaching the ground distant from station
X	W	16	Precipitation within sight reaching the ground near but not at station
X	W	17	Thunderstorm, no precipitation at observation time
X	W	18	Squalls at or within sight at observation time or in past hour
X	W	19	Funnel clouds at or within sight at observation time or in past hour
X	W	20	Drizzle or snow grains in past hour
X	W	21	Rain in past hour
X	W	22	Snow in past hour
X	W	23	Rain and snow or ice pellets in past hour
X	W	24	Freezing drizzle or freezing rain in past hour
X	W	25	Showers of rain in past hour
X	W	26	Showers of snow or rain and snow in past hour
X	W	27	Showers of hail or of rain and hail in past hour
X	W	28	Fog or ice fog, visibility < 1100 yd, in past hour
X	W	29	Thunderstorm with or without precipitation in past hour
X	W	30	Slight or moderate dust storm or sandstorm, decreased in past hr
X	W	31	Slight or moderate dust storm or sandstorm, no change in past hr
X	W	32	Slight or moderate dust storm or sandstorm, increased in past hr
X	W	33	Severe dust storm or sandstorm, decreased in past hour
X	W	34	Severe dust storm or sandstorm, no change in past hour
X	W	35	Severe dust storm or sandstorm, increased in past hour
X	W	36	Slight or moderate drifting snow, low
X	W	37	Heavy drifting snow, low
X	W	38	Slight or moderate blowing snow, high
X	W	39	Heavy blowing snow, high
X	W	40	Fog or ice fog at a distance; extending above observer
X	W	41	Fog or ice fog in patches
X	W	42	Fog or ice fog, sky discernible, thinner in past hour
X	W	43	Fog or ice fog, sky not discernible, thinner in past hour
X	W	44	Fog or ice fog, sky discernible, no change in past hour
X	W	45	Fog or ice fog, sky not discernible, no change in past hour
X	W	46	Fog or ice fog, sky discernible, increased in past hour
X	W	47	Fog or ice fog, sky not discernible, increased in past hour

X	W	48	Fog, depositing rime, sky discernible
X	W	49	Fog, depositing rime, sky not discernible
X	W	50	Slight intermittent drizzle
X	W	51	Slight continuous drizzle
X	W	52	Moderate intermittent drizzle
X	W	53	Moderate continuous drizzle
X	W	54	Heavy intermittent drizzle
X	W	55	Heavy continuous drizzle
X	W	56	Slight freezing drizzle
X	W	57	Moderate or heavy freezing drizzle
X	W	58	Slight drizzle and rain
X	W	59	Moderate or heavy drizzle and rain
X	W	60	Slight intermittent rain
X	W	61	Slight continuous rain
X	W	62	Moderate intermittent rain
X	W	63	Moderate continuous rain
X	W	64	Heavy intermittent rain
X	W	65	Heavy continuous rain
X	W	66	Slight freezing rain
X	W	67	Moderate or heavy freezing rain
X	W	68	Slight rain or drizzle and snow
X	W	69	Moderate or heavy rain or drizzle and snow
X	W	70	Slight Intermittent fall of snow flakes
X	W	71	Slight Continuous fall of snow flakes
X	W	72	Moderate Intermittent fall of snow flakes
X	W	73	Moderate Continuous fall of snow flakes
X	W	74	Heavy Intermittent fall of snow flakes
X	W	75	Heavy Continuous fall of snow flakes
X	W	76	Ice prisms
X	W	77	Snow grains
X	W	78	Isolated starlike snow crystals
X	W	79	Ice pellets
X	W	80	Slight rain showers
X	W	81	Moderate or heavy rain showers
X	W	82	Violent rain showers
X	W	83	Slight showers of rain and snow mixed
X	W	84	Moderate or heavy showers of rain and snow mixed
X	W	85	Slight snow showers
X	W	86	Moderate or heavy snow showers
X	W	87	Slight showers of snow pellets or ice pellets with or without rain
X	W	88	Moderate or heavy showers of snow pellets or ice pellets with or without rain
X	W	89	Slight showers of hail with or without rain
X	W	90	Moderate or heavy showers of hail with or without rain
X	W	91	Slight rain at observation time
X	W	92	Moderate or heavy rain at observation time
X	W	93	Slight snow, or rain and snow mixed, or hail at observation time
X	W	94	Moderate or heavy snow, or rain and snow mixed, or hail at observation time
X	W	95	Thunderstorm, slight or moderate without hail but with rain at observation time
X	W	96	Thunderstorm, slight or moderate with hail at observation time
X	W	97	Thunderstorm, heavy, without hail, but with rain or snow at observation time

X	W	98	Thunderstorm with dust storm or sandstorm at observation time
X	W	99	Thunderstorm, heavy with hail at observation time

8.8 shefqc

<u>code</u>	<u>power</u>	<u>description</u>
0	-5	Missing (shefdecoder feature)
F	0	Flagged
B	5	Bad, Manual QC
R	10	Rejected by L1
E	15	Estimated
Z	20	Filler, No QC
T	21	Triggered
M	22	Manual Edit
Q	25	Questioned, L2, L3
S	30	Screened L1
V	35	Verified L2
P	40	Passed L1, L2, L3
G	45	Good, Manual QC

9.0 datalimits table

This table is initialize with a suggested set of data limits for a set of SHEF PE codes. The user may add, delete or alter as the user sees fit to meet the needs of the user's RFC. Gross range limits have been defined for selected SHEF PE codes. The time interval in all cases is 01/01 thru 12/31.

<u>SHEF PE</u>	<u>SHEF Duration</u>	<u>Numeric Value SHEF duration</u>	<u>Minimum gross range</u>	<u>Maximum gross range</u>
HG	I	0	-1.0	150.0
HP	I	0	400.0	15000.0
HT	I	0	400.0	15000.0
PP	U	1	0.0	2.0
PP	C	15	0.0	2.0
PP	J	30	0.0	4.0
PP	H	1001	0.0	6.0
PP	B	1002	0.0	20.0
PP	T	1003	0.0	20.0
PP	F	1004	0.0	20.0
PP	Q	1006	0.0	20.0
PP	A	1008	0.0	20.0
PP	K	1012	0.0	20.0
PP	L	1018	0.0	20.0
PP	D	2001	0.0	20.0
PP	W	2007	0.0	50.0
PP	M	3001	0.0	50.0
PP	P	5004	0.0	20.0

QD	I	0	0.0	50000.0
QT	I	0	0.0	1000000.0
QT	D	2001	0.0	1000000.0
SA	I	0	0.0	100.0
SD	I	0	0.0	2000.0
SF	I	0	0.0	100.0
SF	U	1	0.0	10.0
SF	C	15	0.0	20.0
SF	J	30	0.0	30.0
SF	H	1001	0.0	50.0
SF	B	1002	0.0	50.0
SF	T	1003	0.0	50.0
SF	F	1004	0.0	50.0
SF	Q	1006	0.0	75.0
SF	A	1008	0.0	75.0
SF	K	1012	0.0	75.0
SF	L	1018	0.0	100.0
SF	D	2001	0.0	100.0
SF	W	2007	0.0	300.0
SF	M	3001	0.0	500.0
SF	P	5004	0.0	100.0
SW	I	0	0.0	200.0
TA	I	0	-70.0	120.0
TD	I	0	-70.0	120.0
TM	I	0	-40.0	120.0
UD	I	0	0.0	36.0
UP	I	0	0.0	300.0
UR	I	0	0.0	36.0
US	I	0	0.0	300.0
XC	I	0	0.0	10.0
XR	I	0	0.0	100.0
XV	I	0	0.0	200.0

10.0 Maintenance Information

Originating Programmer/Office: Meyer, A. Juliann
 Missouri Basin River Forecast Center
 Pleasant Hill MO

Maintenance programmer/Office: Meyer, A. Juliann
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