

Appendix B - Selected Reference Tables in the Archive Database

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*, *shfpetrans*, *shfprob*, *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

The source of the data for these four tables was obtained from the 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

A 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	0317	Pascagoula
0102	Penobscot	0318	Pearl
0103	Kennebec	0401	Western Lake Superior
0104	Androscoggin	0402	Southern Lake Superior-Lake Superior
0105	Maine Coastal	0403	Northwestern Lake Michigan
0106	Saco	0404	Southwestern Lake Michigan
0107	Merrimack	0405	Southeastern Lake Michigan
0108	Connecticut	0406	Northeastern Lake Michigan-Lake Michigan
0109	Massachusetts-Rhode Island Coastal	0407	Northwestern Lake Huron
0110	Connecticut Coastal	0408	Southwestern Lake Huron-Lake Huron
0111	St. Francois	0409	St. Clair-Detroit
0201	Richelieu	0410	Western Lake Erie
0202	Upper Hudson	0411	Southern Lake Erie
0203	Lower Hudson-Long Island	0412	Eastern Lake Erie-Lake Erie
0204	Delaware	0413	Southwestern Lake Ontario
0205	Susquehanna	0414	Southeastern Lake Ontario
0206	Upper Chesapeake	0415	Northeastern Lake Ontario-Lake Ontario-St. Lawrence
0207	Potomac	0501	Allegheny
0208	Lower Chesapeake	0502	Monongahela
0301	Chowan-Roanoke	0503	Upper Ohio
0302	Neuse-Pamlico	0504	Muskingum
0303	Cape Fear	0505	Kanawha
0304	Pee Dee	0506	Scioto
0305	Edisto-Santee	0507	Big Sandy-Guyandotte
0306	Ogeechee-Savannah	0508	Great Miami
0307	Altamaha - St. Marys	0509	Middle Ohio
0308	St. Johns	0510	Kentucky-Licking
0309	Southern Florida	0511	Green
0310	Peace-Tampa Bay	0512	Wabash
0311	Suwannee	0513	Cumberland
0312	Ochlockonee	0514	Lower Ohio
0313	Apalachicola	0601	Upper Tennessee
0314	Choctawhatchee - Escambia	0602	Middle Tennessee-Hiwassee
0315	Alabama	0603	Middle Tennessee-Elk
0316	Mobile - Tombigbee		

0604	Lower Tennessee	1029	Gasconade-Osage
0701	Mississippi Headwaters	1030	Lower Missouri
0702	Minnesota	1101	Upper White
0703	St. Croix	1102	Upper Arkansas
0704	Upper Mississippi-Black-Root	1103	Middel Arkansas
0705	Chippewa	1104	Upper Cimarron
0706	Upper Mississippi-Maquoketa-Plum	1105	Lower Cimarron
0707	Wisconsin	1106	Arkansas - Keystone
0708	Upper Mississippi-Iowa-Skunk- Wapsipinicon	1107	Neosho - Verdigris
0709	Rock	1108	Upper Canadian
0710	Des Moines	1109	Lower Canadian
0711	Upper Mississippi-Salt	1110	North Canadian
0712	Upper Illinois	1111	Lower Arkansas
0713	Lower Illinois	1112	Red headwaters
0714	Upper Mississippi-Kaskaskia-Meramec	1113	Red - Washita
0801	Lower Mississippi-Hatchie	1114	Red-Sulphur
0802	Lower Mississippi - St. Francis	1201	Sabine
0803	Lower Mississippi - Yazoo	1202	Neches
0804	Lower Red - Ouachita	1203	Trinity
0805	Boeuf-Tensas	1204	Galveston Bay-San Jacinto
0806	Lower Mississippi - Big Black	1205	Brazos headwaters
0807	Lower Mississippi-Lake Maurepas	1206	Middle Brazos
0808	Louisiana Coastal	1207	Lower Brazos
0809	Lower Mississippi	1208	Upper Colorado
0901	Souris	1209	Lower Colorado-San Bernard Coastal
0902	Red	1210	Central Texas Coastal
0903	Rainy	1211	Nueces-Southwestern Texas Coastal
1001	Saskatchewan	1301	Rio Grande headwaters
1002	Missouri Headwaters	1302	Rio Grande-Elephant Butte
1003	Missouri-Marias	1303	Rio Grande-Mimbres
1004	Missouri-Musselshell	1304	Rio Grande-Amistad
1005	Milk	1305	Rio Grande closed basins
1006	Missouri-Poplar	1306	Upper Pecos
1007	Upper Yellowstone	1307	Lower Pecos
1008	Big Horn	1308	Rio Grande-Falcon
1009	Powder-Tongue	1309	Lower Rio Grande
1010	Lower Yellowstone	1401	Colorado headwaters
1011	Missouri-Little Missouri	1402	Gunnison
1012	Cheyenne	1403	Upper Colorado-Dolores
1013	Missouri-Oahe	1404	Great Divide - Upper Green
1014	Missouri-White	1405	White-Yampa
1015	Niobrara	1406	Lower Green
1016	James	1407	Upper Colorado-Dirty Devil
1017	Missouri-Big Sioux	1408	San Juan
1018	North Platte	1501	Lower Colorado-Lake Mead
1019	South Platte	1502	Little Colorado
1020	Platte	1503	Lower Colorado
1021	Loup	1504	Upper Gila
1022	Elkhorn	1505	Middle Gila
1023	Missouri-Little Sioux	1506	Salt
1024	Missouri-Nishnabotna	1507	Lower Gila
1025	Republican	1508	Sonora
1026	Smoky Hill	1601	Bear
1027	Kansas	1602	Great Salt Lake
1028	Chariton-Grand	1603	Escalante Desert-Sevier Lake
		1604	Black Rock Desert-Humboldt

1605	Central Lahontan	1809	Northern Mojave-Mono Lake
1606	Central Nevada Desert Basins	1810	Southern Mojave-Salton Sea
1701	Kootenai-Pend Oreille-Spokane	1901	Arctic Slope
1702	Upper Columbia	1902	Northwest Alaska
1703	Yakima	1903	Yukon
1704	Upper Snake	1904	Southwest Alaska
1705	Middle Snake	1905	South Central Alaska
1706	Lower Snake	1906	Southeast Alaska
1707	Middle Columbia	2001	Hawaii
1708	Lower Columbia	2002	Maui
1709	Willamette	2003	Kahoolawe
1710	Oregon-Washington Coastal	2004	Lanai
1711	Puget Sound	2005	Molokai
1712	Oregon closed basins	2006	Oahu
1801	Klamath-Northern California Coastal	2007	Kauai
1802	Sacramento	2008	Niihau
1803	Tulare-Buena Vista Lakes	2009	Northwestern Hawaiian Islands
1804	San Joaquin	2101	Puerto Rico
1805	San Francisco Bay	2102	Virgin Islands
1806	Central California Coastal	2103	Caribbean Outlying Areas
1807	Southern California Coastal		
1808	North Lahontan		

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 indicates that the field is not defined.

4.1 United States

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

4.2 Canada

No supplemental information on Nuavut territory was found.

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

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

<u>county</u>	<u>state</u>		<u>primary</u>				
<u>name</u>	<u>code</u>	<u>FIPS</u>	<u>wfo</u>				
Big Stone	MN	011	ABR	Hyde	SD	069	ABR
Traverse	MN	155	ABR	Jones	SD	075	ABR
Brown	SD	013	ABR	Lyman	SD	085	ABR
Buffalo	SD	017	ABR	McPherson	SD	089	ABR
Campbell	SD	021	ABR	Marshall	SD	091	ABR
Clark	SD	025	ABR	Potter	SD	107	ABR
Codington	SD	029	ABR	Roberts	SD	109	ABR
Corson	SD	031	ABR	Spink	SD	115	ABR
Day	SD	037	ABR	Stanley	SD	117	ABR
Deuel	SD	039	ABR	Sully	SD	119	ABR
Dewey	SD	041	ABR	Walworth	SD	129	ABR
Edmunds	SD	045	ABR				
Faulk	SD	049	ABR	Alcona	MI	001	APX
Grant	SD	051	ABR	Alpena	MI	007	APX
Hamlin	SD	057	ABR	Antrim	MI	009	APX
Hand	SD	059	ABR	Arenac	MI	011	APX
Hughes	SD	065	ABR	Benzie	MI	019	APX
				Charlevoix	MI	029	APX
				Cheboygan	MI	031	APX

Chippewa	MI	033	APX	Dunn	ND	025	BIS
Crawford	MI	039	APX	Emmons	ND	029	BIS
Emmet	MI	047	APX	Foster	ND	031	BIS
Gladwin	MI	051	APX	Golden Valley	ND	033	BIS
Grand Traverse	MI	055	APX	Grant	ND	037	BIS
Iosco	MI	069	APX	Hettinger	ND	041	BIS
Kalkaska	MI	079	APX	Kidder	ND	043	BIS
Leelanau	MI	089	APX	La Moure	ND	045	BIS
Mackinac	MI	097	APX	Logan	ND	047	BIS
Manistee	MI	101	APX	McHenry	ND	049	BIS
Missaukee	MI	113	APX	McIntosh	ND	051	BIS
Montmorency	MI	119	APX	McKenzie	ND	053	BIS
Ogemaw	MI	129	APX	McLean	ND	055	BIS
Oscoda	MI	135	APX	Mercer	ND	057	BIS
Otsego	MI	137	APX	Morton	ND	059	BIS
Presque Isle	MI	141	APX	Mountrail	ND	061	BIS
Roscommon	MI	143	APX	Oliver	ND	065	BIS
Wexford	MI	165	APX	Pierce	ND	069	BIS
				Renville	ND	075	BIS
Allamakee	IA	005	ARX	Rolette	ND	079	BIS
Chickasaw	IA	037	ARX	Sheridan	ND	083	BIS
Clayton	IA	043	ARX	Sioux	ND	085	BIS
Fayette	IA	065	ARX	Slope	ND	087	BIS
Floyd	IA	067	ARX	Stark	ND	089	BIS
Howard	IA	089	ARX	Stutsman	ND	093	BIS
Mitchell	IA	131	ARX	Ward	ND	101	BIS
Winneshiek	IA	191	ARX	Wells	ND	103	BIS
Dodge	MN	039	ARX	Williams	ND	105	BIS
Fillmore	MN	045	ARX				
Houston	MN	055	ARX	Adams	CO	001	BOU
Mower	MN	099	ARX	Arapahoe	CO	005	BOU
Olmsted	MN	109	ARX	Boulder	CO	013	BOU
Wabasha	MN	157	ARX	Broomfield	CO	014	BOU
Winona	MN	169	ARX	Clear Creek	CO	019	BOU
Adams	WI	001	ARX	Denver	CO	031	BOU
Buffalo	WI	011	ARX	Douglas	CO	035	BOU
Clark	WI	019	ARX	Elbert	CO	039	BOU
Crawford	WI	023	ARX	Gilpin	CO	047	BOU
Grant	WI	043	ARX	Grand	CO	049	BOU
Jackson	WI	053	ARX	Jackson	CO	057	BOU
Juneau	WI	057	ARX	Jefferson	CO	059	BOU
La Crosse	WI	063	ARX	Larimer	CO	069	BOU
Monroe	WI	081	ARX	Lincoln	CO	073	BOU
Richland	WI	103	ARX	Logan	CO	075	BOU
Taylor	WI	119	ARX	Morgan	CO	087	BOU
Trempealeau	WI	121	ARX	Park	CO	093	BOU
Vernon	WI	123	ARX	Phillips	CO	095	BOU
				Sedgwick	CO	115	BOU
Adams	ND	001	BIS	Summit	CO	117	BOU
Billings	ND	007	BIS	Washington	CO	121	BOU
Bottineau	ND	009	BIS	Weld	CO	123	BOU
Bowman	ND	011	BIS				
Burke	ND	013	BIS	Banner	NE	007	CYS
Burleigh	ND	015	BIS	Box Butte	NE	013	CYS
Dickey	ND	021	BIS	Cheyenne	NE	033	CYS
Divide	ND	023	BIS	Dawes	NE	045	CYS

Kimball	NE	105	CYS	Sawyer	WI	113	DLH
Morrill	NE	123	CYS	Washburn	WI	129	DLH
Scotts Bluff	NE	157	CYS				
Sioux	NE	165	CYS	Adair	IA	001	DMX
Albany	WY	001	CYS	Adams	IA	003	DMX
Carbon	WY	007	CYS	Appanoose	IA	007	DMX
Converse	WY	009	CYS	Audubon	IA	009	DMX
Goshen	WY	015	CYS	Black Hawk	IA	013	DMX
Laramie	WY	021	CYS	Boone	IA	015	DMX
Niobrara	WY	027	CYS	Bremer	IA	017	DMX
Platte	WY	031	CYS	Butler	IA	023	DMX
				Calhoun	IA	025	DMX
Ellis	KS	051	DDC	Carroll	IA	027	DMX
Grant	KS	067	DDC	Cass	IA	029	DMX
Gray	KS	069	DDC	Cerro Gordo	IA	033	DMX
Finney	KS	055	DDC	Clarke	IA	039	DMX
Ford	KS	057	DDC	Crawford	IA	047	DMX
Barber	KS	007	DDC	Dallas	IA	049	DMX
Clark	KS	025	DDC	Davis	IA	051	DMX
Comanche	KS	033	DDC	Decatur	IA	053	DMX
Edwards	KS	047	DDC	Emmet	IA	063	DMX
Hamilton	KS	075	DDC	Franklin	IA	069	DMX
Haskell	KS	081	DDC	Greene	IA	073	DMX
Hodgeman	KS	083	DDC	Grundy	IA	075	DMX
Kearny	KS	093	DDC	Guthrie	IA	077	DMX
Kiowa	KS	097	DDC	Hamilton	IA	079	DMX
Lane	KS	101	DDC	Hancock	IA	081	DMX
Meade	KS	119	DDC	Hardin	IA	083	DMX
Morton	KS	129	DDC	Humboldt	IA	091	DMX
Ness	KS	135	DDC	Jasper	IA	099	DMX
Pawnee	KS	145	DDC	Kossuth	IA	109	DMX
Pratt	KS	151	DDC	Lucas	IA	117	DMX
Rush	KS	165	DDC	Madison	IA	121	DMX
Scott	KS	171	DDC	Mahaska	IA	123	DMX
Seward	KS	175	DDC	Marion	IA	125	DMX
Stafford	KS	185	DDC	Marshall	IA	127	DMX
Stanton	KS	187	DDC	Monroe	IA	135	DMX
Stevens	KS	189	DDC	Palo Alto	IA	147	DMX
Trego	KS	195	DDC	Pocahontas	IA	151	DMX
				Polk	IA	153	DMX
Aitkin	MN	001	DLH	Poweshiek	IA	157	DMX
Carlton	MN	017	DLH	Ringgold	IA	159	DMX
Cass	MN	021	DLH	Sac	IA	161	DMX
Cook	MN	031	DLH	Story	IA	169	DMX
Crow Wing	MN	035	DLH	Tama	IA	171	DMX
Itasca	MN	061	DLH	Taylor	IA	173	DMX
Koochiching	MN	071	DLH	Union	IA	175	DMX
Lake	MN	075	DLH	Wapello	IA	179	DMX
Pine	MN	115	DLH	Warren	IA	181	DMX
St. Louis	MN	137	DLH	Wayne	IA	185	DMX
Ashland	WI	003	DLH	Webster	IA	187	DMX
Bayfield	WI	007	DLH	Winnebago	IA	189	DMX
Burnett	WI	013	DLH	Worth	IA	195	DMX
Douglas	WI	031	DLH	Wright	IA	197	DMX
Iron	WI	051	DLH				
Price	WI	099	DLH	Bay	MI	017	DTX

Genesee	MI	049	DTX	Johnson	KS	091	EAX
Huron	MI	063	DTX	Leavenworth	KS	103	EAX
Lapeer	MI	087	DTX	Linn	KS	107	EAX
Lenawee	MI	091	DTX	Miami	KS	121	EAX
Livingston	MI	093	DTX	Wyandotte	KS	209	EAX
Macomb	MI	099	DTX	Adair	MO	001	EAX
Midland	MI	111	DTX	Andrew	MO	003	EAX
Monroe	MI	115	DTX	Atchison	MO	005	EAX
Oakland	MI	125	DTX	Bates	MO	013	EAX
Saginaw	MI	145	DTX	Buchanan	MO	021	EAX
St. Clair	MI	147	DTX	Caldwell	MO	025	EAX
Sanilac	MI	151	DTX	Carroll	MO	033	EAX
Shiawassee	MI	155	DTX	Cass	MO	037	EAX
Tuscola	MI	157	DTX	Chariton	MO	041	EAX
Washtenaw	MI	161	DTX	Clay	MO	047	EAX
Wayne	MI	163	DTX	Clinton	MO	049	EAX
				Cooper	MO	053	EAX
Benton	IA	011	DVN	Daviess	MO	061	EAX
Buchanan	IA	019	DVN	DeKalb	MO	063	EAX
Cedar	IA	031	DVN	Gentry	MO	075	EAX
Clinton	IA	045	DVN	Grundy	MO	079	EAX
Delaware	IA	055	DVN	Harrison	MO	081	EAX
Des Moines	IA	057	DVN	Henry	MO	083	EAX
Dubuque	IA	061	DVN	Holt	MO	087	EAX
Henry	IA	087	DVN	Howard	MO	089	EAX
Iowa	IA	095	DVN	Jackson	MO	095	EAX
Jackson	IA	097	DVN	Johnson	MO	101	EAX
Jefferson	IA	101	DVN	Lafayette	MO	107	EAX
Johnson	IA	103	DVN	Linn	MO	115	EAX
Jones	IA	105	DVN	Livingston	MO	117	EAX
Keokuk	IA	107	DVN	Macon	MO	121	EAX
Lee	IA	111	DVN	Mercer	MO	129	EAX
Linn	IA	113	DVN	Nodaway	MO	147	EAX
Louisa	IA	115	DVN	Pettis	MO	159	EAX
Muscatine	IA	139	DVN	Platte	MO	165	EAX
Scott	IA	163	DVN	Putnam	MO	171	EAX
Van Buren	IA	177	DVN	Randolph	MO	175	EAX
Washington	IA	183	DVN	Ray	MO	177	EAX
Bureau	IL	011	DVN	Saline	MO	195	EAX
Carroll	IL	015	DVN	Schuyler	MO	197	EAX
Hancock	IL	067	DVN	Sullivan	MO	211	EAX
Henderson	IL	071	DVN	Worth	MO	227	EAX
Henry	IL	073	DVN				
Jo Daviess	IL	085	DVN	Becker	MN	005	FGF
McDonough	IL	109	DVN	Beltrami	MN	007	FGF
Mercer	IL	131	DVN	Clay	MN	027	FGF
Putnam	IL	155	DVN	Clearwater	MN	029	FGF
Rock Island	IL	161	DVN	Grant	MN	051	FGF
Stephenson	IL	177	DVN	Hubbard	MN	057	FGF
Warren	IL	187	DVN	Kittson	MN	069	FGF
Whiteside	IL	195	DVN	Lake of the Woods	MN	077	FGF
Clark	MO	045	DVN	Mahnomen	MN	087	FGF
Scotland	MO	199	DVN	Marshall	MN	089	FGF
				Norman	MN	107	FGF
Atchison	KS	005	EAX	Otter Tail	MN	111	FGF
Doniphan	KS	043	EAX	Pennington	MN	113	FGF

Polk	MN	119	FGF	Jerauld	SD	073	FSD
Red Lake	MN	125	FGF	Kingsbury	SD	077	FSD
Roseau	MN	135	FGF	Lake	SD	079	FSD
Wadena	MN	159	FGF	Lincoln	SD	083	FSD
Wilkin	MN	167	FGF	McCook	SD	087	FSD
Barnes	ND	003	FGF	Miner	SD	097	FSD
Benson	ND	005	FGF	Minnehaha	SD	099	FSD
Cass	ND	017	FGF	Moody	SD	101	FSD
Cavalier	ND	019	FGF	Sanborn	SD	111	FSD
Eddy	ND	027	FGF	Turner	SD	125	FSD
Grand Forks	ND	035	FGF	Union	SD	127	FSD
Griggs	ND	039	FGF	Yankton	SD	135	FSD
Nelson	ND	063	FGF				
Pembina	ND	067	FGF	Jewell	KS	089	GID
Ramsey	ND	071	FGF	Mitchell	KS	123	GID
Ransom	ND	073	FGF	Osborne	KS	141	GID
Richland	ND	077	FGF	Phillips	KS	147	GID
Sargent	ND	081	FGF	Rooks	KS	163	GID
Steele	ND	091	FGF	Smith	KS	183	GID
Towner	ND	095	FGF	Adams	NE	001	GID
Traill	ND	097	FGF	Buffalo	NE	019	GID
Walsh	ND	099	FGF	Clay	NE	035	GID
				Dawson	NE	047	GID
Buena Vista	IA	021	FSD	Fillmore	NE	059	GID
Cherokee	IA	035	FSD	Franklin	NE	061	GID
Clay	IA	041	FSD	Furnas	NE	065	GID
Dickinson	IA	059	FSD	Gosper	NE	073	GID
Ida	IA	093	FSD	Greeley	NE	077	GID
Lyon	IA	119	FSD	Hall	NE	079	GID
O'Brien	IA	141	FSD	Hamilton	NE	081	GID
Osceola	IA	143	FSD	Harlan	NE	083	GID
Plymouth	IA	149	FSD	Howard	NE	093	GID
Sioux	IA	167	FSD	Kearney	NE	099	GID
Woodbury	IA	193	FSD	Merrick	NE	121	GID
Cottonwood	MN	033	FSD	Nance	NE	125	GID
Jackson	MN	063	FSD	Nuckolls	NE	129	GID
Lincoln	MN	081	FSD	Phelps	NE	137	GID
Lyon	MN	083	FSD	Polk	NE	143	GID
Murray	MN	101	FSD	Sherman	NE	163	GID
Nobles	MN	105	FSD	Thayer	NE	169	GID
Pipestone	MN	117	FSD	Valley	NE	175	GID
Rock	MN	133	FSD	Webster	NE	181	GID
Dakota	NE	043	FSD	York	NE	185	GID
Dixon	NE	051	FSD				
Aurora	SD	003	FSD	Archuleta	CO	007	GJT
Beadle	SD	005	FSD	Chaffee	CO	015	GJT
Bon Homme	SD	009	FSD	Delta	CO	029	GJT
Brookings	SD	011	FSD	Dolores	CO	033	GJT
Brule	SD	015	FSD	Eagle	CO	037	GJT
Charles Mix	SD	023	FSD	Garfield	CO	045	GJT
Clay	SD	027	FSD	Gunnison	CO	051	GJT
Davison	SD	035	FSD	Hinsdale	CO	053	GJT
Douglas	SD	043	FSD	La Plata	CO	067	GJT
Gregory	SD	053	FSD	Mesa	CO	077	GJT
Hanson	SD	061	FSD	Moffat	CO	081	GJT
Hutchinson	SD	067	FSD	Montezuma	CO	083	GJT

Montrose	CO	085	GJT	Calhoun	MI	025	GRR
Ouray	CO	091	GJT	Clare	MI	035	GRR
Pitkin	CO	097	GJT	Clinton	MI	037	GRR
Rio Blanco	CO	103	GJT	Eaton	MI	045	GRR
Routt	CO	107	GJT	Gratiot	MI	057	GRR
San Juan	CO	111	GJT	Ingham	MI	065	GRR
San Miguel	CO	113	GJT	Ionia	MI	067	GRR
Daggett	UT	009	GJT	Isabella	MI	073	GRR
Grand	UT	019	GJT	Jackson	MI	075	GRR
San Juan	UT	037	GJT	Kalamazoo	MI	077	GRR
Uintah	UT	047	GJT	Kent	MI	081	GRR
Cheyenne	CO	017	GLD	Lake	MI	085	GRR
Kit Carson	CO	063	GLD	Mason	MI	105	GRR
Yuma	CO	125	GLD	Mecosta	MI	107	GRR
Cheyenne	KS	023	GLD	Montcalm	MI	117	GRR
Decatur	KS	039	GLD	Muskegon	MI	121	GRR
Gove	KS	063	GLD	Newaygo	MI	123	GRR
Graham	KS	065	GLD	Oceana	MI	127	GRR
Greeley	KS	071	GLD	Osceola	MI	133	GRR
Logan	KS	109	GLD	Ottawa	MI	139	GRR
Norton	KS	137	GLD	Van Buren	MI	159	GRR
Rawlins	KS	153	GLD				
Sheridan	KS	179	GLD	Allen	KS	001	ICT
Sherman	KS	181	GLD	Barton	KS	009	ICT
Thomas	KS	193	GLD	Butler	KS	015	ICT
Wallace	KS	199	GLD	Chase	KS	017	ICT
Wichita	KS	203	GLD	Chautauqua	KS	019	ICT
Dundy	NE	057	GLD	Cowley	KS	035	ICT
Hitchcock	NE	087	GLD	Elk	KS	049	ICT
Red Willow	NE	145	GLD	Ellsworth	KS	053	ICT
				Greenwood	KS	073	ICT
Brown	WI	009	GRB	Harper	KS	077	ICT
Calumet	WI	015	GRB	Harvey	KS	079	ICT
Door	WI	029	GRB	Kingman	KS	095	ICT
Florence	WI	037	GRB	Labette	KS	099	ICT
Forest	WI	041	GRB	Lincoln	KS	105	ICT
Kewaunee	WI	061	GRB	McPherson	KS	113	ICT
Langlade	WI	067	GRB	Marion	KS	115	ICT
Lincoln	WI	069	GRB	Montgomery	KS	125	ICT
Manitowoc	WI	071	GRB	Neosho	KS	133	ICT
Marathon	WI	073	GRB	Reno	KS	155	ICT
Marinette	WI	075	GRB	Rice	KS	159	ICT
Menominee	WI	078	GRB	Russell	KS	167	ICT
Oconto	WI	083	GRB	Saline	KS	169	ICT
Oneida	WI	085	GRB	Sedgwick	KS	173	ICT
Outagamie	WI	087	GRB	Sumner	KS	191	ICT
Portage	WI	097	GRB	Wilson	KS	205	ICT
Shawano	WI	115	GRB	Woodson	KS	207	ICT
Vilas	WI	125	GRB	Dearborn	IN	029	ILN
Waupaca	WI	135	GRB	Fayette	IN	041	ILN
Waushara	WI	137	GRB	Franklin	IN	047	ILN
Winnebago	WI	139	GRB	Ohio	IN	115	ILN
Wood	WI	141	GRB	Ripley	IN	137	ILN
				Switzerland	IN	155	ILN
Allegan	MI	005	GRR	Union	IN	161	ILN
Barry	MI	015	GRR	Wayne	IN	177	ILN

Boone	KY	015	ILN	Effingham	IL	049	ILX
Bracken	KY	023	ILN	Fulton	IL	057	ILX
Campbell	KY	037	ILN	Jasper	IL	079	ILX
Carroll	KY	041	ILN	Knox	IL	095	ILX
Gallatin	KY	077	ILN	Lawrence	IL	101	ILX
Grant	KY	081	ILN	Logan	IL	107	ILX
Kenton	KY	117	ILN	McLean	IL	113	ILX
Lewis	KY	135	ILN	Macon	IL	115	ILX
Mason	KY	161	ILN	Marshall	IL	123	ILX
Owen	KY	187	ILN	Mason	IL	125	ILX
Pendleton	KY	191	ILN	Menard	IL	129	ILX
Robertson	KY	201	ILN	Morgan	IL	137	ILX
Adams	OH	001	ILN	Moultrie	IL	139	ILX
Auglaize	OH	011	ILN	Peoria	IL	143	ILX
Brown	OH	015	ILN	Piatt	IL	147	ILX
Butler	OH	017	ILN	Richland	IL	159	ILX
Champaign	OH	021	ILN	Sangamon	IL	167	ILX
Clark	OH	023	ILN	Schuyler	IL	169	ILX
Clermont	OH	025	ILN	Scott	IL	171	ILX
Clinton	OH	027	ILN	Shelby	IL	173	ILX
Darke	OH	037	ILN	Stark	IL	175	ILX
Delaware	OH	041	ILN	Tazewell	IL	179	ILX
Fairfield	OH	045	ILN	Vermilion	IL	183	ILX
Fayette	OH	047	ILN	Woodford	IL	203	ILX
Franklin	OH	049	ILN				
Greene	OH	057	ILN	Bartholomew	IN	005	IND
Hamilton	OH	061	ILN	Boone	IN	011	IND
Hardin	OH	065	ILN	Brown	IN	013	IND
Highland	OH	071	ILN	Carroll	IN	015	IND
Hocking	OH	073	ILN	Clay	IN	021	IND
Licking	OH	089	ILN	Clinton	IN	023	IND
Logan	OH	091	ILN	Daviess	IN	027	IND
Madison	OH	097	ILN	Decatur	IN	031	IND
Mercer	OH	107	ILN	Delaware	IN	035	IND
Miami	OH	109	ILN	Fountain	IN	045	IND
Montgomery	OH	113	ILN	Greene	IN	055	IND
Pickaway	OH	129	ILN	Hamilton	IN	057	IND
Pike	OH	131	ILN	Hancock	IN	059	IND
Preble	OH	135	ILN	Hendricks	IN	063	IND
Ross	OH	141	ILN	Henry	IN	065	IND
Scioto	OH	145	ILN	Howard	IN	067	IND
Shelby	OH	149	ILN	Jackson	IN	071	IND
Union	OH	159	ILN	Jennings	IN	079	IND
Warren	OH	165	ILN	Johnson	IN	081	IND
				Knox	IN	083	IND
Cass	IL	017	ILX	Lawrence	IN	093	IND
Champaign	IL	019	ILX	Madison	IN	095	IND
Christian	IL	021	ILX	Marion	IN	097	IND
Clark	IL	023	ILX	Martin	IN	101	IND
Clay	IL	025	ILX	Monroe	IN	105	IND
Coles	IL	029	ILX	Montgomery	IN	107	IND
Crawford	IL	033	ILX	Morgan	IN	109	IND
Cumberland	IL	035	ILX	Owen	IN	119	IND
DeWitt	IL	039	ILX	Parke	IN	121	IND
Douglas	IL	041	ILX	Putnam	IN	133	IND
Edgar	IL	045	ILX	Randolph	IN	135	IND

Rush	IN	139	IND	Jackson	KY	109	JKL
Shelby	IN	145	IND	Johnson	KY	115	JKL
Sullivan	IN	153	IND	Knott	KY	119	JKL
Tippecanoe	IN	157	IND	Knox	KY	121	JKL
Tipton	IN	159	IND	Laurel	KY	125	JKL
Vermillion	IN	165	IND	Lee	KY	129	JKL
Vigo	IN	167	IND	Leslie	KY	131	JKL
Warren	IN	171	IND	Letcher	KY	133	JKL
Adams	IN	001	IWX	McCreary	KY	147	JKL
Allen	IN	003	IWX	Magoffin	KY	153	JKL
Blackford	IN	009	IWX	Martin	KY	159	JKL
Cass	IN	017	IWX	Menifee	KY	165	JKL
DeKalb	IN	033	IWX	Montgomery	KY	173	JKL
Elkhart	IN	039	IWX	Morgan	KY	175	JKL
Fulton	IN	049	IWX	Owsley	KY	189	JKL
Grant	IN	053	IWX	Perry	KY	193	JKL
Huntington	IN	069	IWX	Pike	KY	195	JKL
Jay	IN	075	IWX	Powell	KY	197	JKL
Kosciusko	IN	085	IWX	Pulaski	KY	199	JKL
Lagrange	IN	087	IWX	Rockcastle	KY	203	JKL
La Porte	IN	091	IWX	Rowan	KY	205	JKL
Marshall	IN	099	IWX	Wayne	KY	231	JKL
Miami	IN	103	IWX	Whitley	KY	235	JKL
Noble	IN	113	IWX	Wolfe	KY	237	JKL
Pulaski	IN	131	IWX	Arthur	NE	005	LBF
St. Joseph	IN	141	IWX	Blaine	NE	009	LBF
Starke	IN	149	IWX	Boyd	NE	015	LBF
Steuben	IN	151	IWX	Brown	NE	017	LBF
Wabash	IN	169	IWX	Chase	NE	029	LBF
Wells	IN	179	IWX	Cherry	NE	031	LBF
White	IN	181	IWX	Custer	NE	041	LBF
Whitley	IN	183	IWX	Deuel	NE	049	LBF
Berrien	MI	021	IWX	Frontier	NE	063	LBF
Branch	MI	023	IWX	Garden	NE	069	LBF
Cass	MI	027	IWX	Garfield	NE	071	LBF
Hillsdale	MI	059	IWX	Grant	NE	075	LBF
St. Joseph	MI	149	IWX	Hayes	NE	085	LBF
Allen	OH	003	IWX	Holt	NE	089	LBF
Defiance	OH	039	IWX	Hooker	NE	091	LBF
Fulton	OH	051	IWX	Keith	NE	101	LBF
Henry	OH	069	IWX	Keya Paha	NE	103	LBF
Paulding	OH	125	IWX	Lincoln	NE	111	LBF
Putnam	OH	137	IWX	Logan	NE	113	LBF
VanWert	OH	161	IWX	Loup	NE	115	LBF
Williams	OH	171	IWX	McPherson	NE	117	LBF
Bath	KY	011	JKL	Perkins	NE	135	LBF
Bell	KY	013	JKL	Rock	NE	149	LBF
Breathitt	KY	025	JKL	Sheridan	NE	161	LBF
Clay	KY	051	JKL	Thomas	NE	171	LBF
Elliott	KY	063	JKL	Wheeler	NE	183	LBF
Estill	KY	065	JKL	Clark	IN	019	LMK
Fleming	KY	069	JKL	Crawford	IN	025	LMK
Floyd	KY	071	JKL	Dubois	IN	037	LMK
Harlan	KY	095	JKL	Floyd	IN	043	LMK

Harrison	IN	061	LMK	Boone	IL	007	LOT
Jefferson	IN	077	LMK	Cook	IL	031	LOT
Orange	IN	117	LMK	DeKalb	IL	037	LOT
Perry	IN	123	LMK	Du Page	IL	043	LOT
Scott	IN	143	LMK	Ford	IL	053	LOT
Washington	IN	175	LMK	Grundy	IL	063	LOT
Adair	KY	001	LMK	Iroquois	IL	075	LOT
Allen	KY	003	LMK	Kane	IL	089	LOT
Anderson	KY	005	LMK	Kankakee	IL	091	LOT
Barren	KY	009	LMK	Kendall	IL	093	LOT
Bourbon	KY	017	LMK	Lake	IL	097	LOT
Boyle	KY	021	LMK	La Salle	IL	099	LOT
Breckinridge	KY	027	LMK	Lee	IL	103	LOT
Bullitt	KY	029	LMK	Livingston	IL	105	LOT
Butler	KY	031	LMK	McHenry	IL	111	LOT
Casey	KY	045	LMK	Ogle	IL	141	LOT
Clark	KY	049	LMK	Will	IL	197	LOT
Clinton	KY	053	LMK	Winnebago	IL	201	LOT
Cumberland	KY	057	LMK	Benton	IN	007	LOT
Edmonson	KY	061	LMK	Jasper	IN	073	LOT
Fayette	KY	067	LMK	Lake	IN	089	LOT
Franklin	KY	073	LMK	Newton	IN	111	LOT
Garrard	KY	079	LMK	Porter	IN	127	LOT
Grayson	KY	085	LMK				
Green	KY	087	LMK	Adams	IL	001	LSX
Hancock	KY	091	LMK	Bond	IL	005	LSX
Hardin	KY	093	LMK	Brown	IL	009	LSX
Harrison	KY	097	LMK	Calhoun	IL	013	LSX
Hart	KY	099	LMK	Clinton	IL	027	LSX
Henry	KY	103	LMK	Fayette	IL	051	LSX
Jefferson	KY	111	LMK	Greene	IL	061	LSX
Jessamine	KY	113	LMK	Jersey	IL	083	LSX
Larue	KY	123	LMK	Macoupin	IL	117	LSX
Lincoln	KY	137	LMK	Madison	IL	119	LSX
Logan	KY	141	LMK	Marion	IL	121	LSX
Madison	KY	151	LMK	Monroe	IL	133	LSX
Marion	KY	155	LMK	Montgomery	IL	135	LSX
Meade	KY	163	LMK	Pike	IL	149	LSX
Mercer	KY	167	LMK	Randolph	IL	157	LSX
Metcalf	KY	169	LMK	St. Clair	IL	163	LSX
Monroe	KY	171	LMK	Washington	IL	189	LSX
Nelson	KY	179	LMK	Audrain	MO	007	LSX
Nicholas	KY	181	LMK	Boone	MO	019	LSX
Ohio	KY	183	LMK	Callaway	MO	027	LSX
Oldham	KY	185	LMK	Cole	MO	051	LSX
Russell	KY	207	LMK	Crawford	MO	055	LSX
Scott	KY	209	LMK	Franklin	MO	071	LSX
Shelby	KY	211	LMK	Gasconade	MO	073	LSX
Simpson	KY	213	LMK	Iron	MO	093	LSX
Spencer	KY	215	LMK	Jefferson	MO	099	LSX
Taylor	KY	217	LMK	Knox	MO	103	LSX
Trimble	KY	223	LMK	Lewis	MO	111	LSX
Warren	KY	227	LMK	Lincoln	MO	113	LSX
Washington	KY	229	LMK	Madison	MO	123	LSX
Woodford	KY	239	LMK	Marion	MO	127	LSX
				Moniteau	MO	135	LSX

Monroe	MO	137	LSX	Meeker	MN	093	MPX
Montgomery	MO	139	LSX	Mille Lacs	MN	095	MPX
Osage	MO	151	LSX	Morrison	MN	097	MPX
Pike	MO	163	LSX	Nicollet	MN	103	MPX
Ralls	MO	173	LSX	Pope	MN	121	MPX
Reynolds	MO	179	LSX	Ramsey	MN	123	MPX
St. Charles	MO	183	LSX	Redwood	MN	127	MPX
Ste. Genevieve	MO	186	LSX	Renville	MN	129	MPX
St. Francois	MO	187	LSX	Rice	MN	131	MPX
St. Louis	MO	189	LSX	Scott	MN	139	MPX
Shelby	MO	205	LSX	Sherburne	MN	141	MPX
Warren	MO	219	LSX	Sibley	MN	143	MPX
Washington	MO	221	LSX	Stearns	MN	145	MPX
St. Louis City	MO	510	LSX	Steele	MN	147	MPX
				Stevens	MN	149	MPX
Columbia	WI	021	MKX	Swift	MN	151	MPX
Dane	WI	025	MKX	Todd	MN	153	MPX
Dodge	WI	027	MKX	Waseca	MN	161	MPX
Fond du Lac	WI	039	MKX	Washington	MN	163	MPX
Green	WI	045	MKX	Watsonwan	MN	165	MPX
Green Lake	WI	047	MKX	Wright	MN	171	MPX
Iowa	WI	049	MKX	Yellow Medicine	MN	173	MPX
Jefferson	WI	055	MKX	Barron	WI	005	MPX
Kenosha	WI	059	MKX	Chippewa	WI	017	MPX
Lafayette	WI	065	MKX	Dunn	WI	033	MPX
Marquette	WI	077	MKX	Eau Claire	WI	035	MPX
Milwaukee	WI	079	MKX	Pepin	WI	091	MPX
Ozaukee	WI	089	MKX	Pierce	WI	093	MPX
Racine	WI	101	MKX	Polk	WI	095	MPX
Rock	WI	105	MKX	Rusk	WI	107	MPX
Sauk	WI	111	MKX	St. Croix	WI	109	MPX
Sheboygan	WI	117	MKX				
Walworth	WI	127	MKX	Alger	MI	003	MQT
Washington	WI	131	MKX	Baraga	MI	013	MQT
Waukesha	WI	133	MKX	Delta	MI	041	MQT
				Dickinson	MI	043	MQT
Anoka	MN	003	MPX	Gogebic	MI	053	MQT
Benton	MN	009	MPX	Houghton	MI	061	MQT
Blue Earth	MN	013	MPX	Iron	MI	071	MQT
Brown	MN	015	MPX	Keweenaw	MI	083	MQT
Carver	MN	019	MPX	Luce	MI	095	MQT
Chippewa	MN	023	MPX	Marquette	MI	103	MQT
Chisago	MN	025	MPX	Menominee	MI	109	MQT
Dakota	MN	037	MPX	Ontonagon	MI	131	MQT
Douglas	MN	041	MPX	Schoolcraft	MI	153	MQT
Faribault	MN	043	MPX				
Freeborn	MN	047	MPX	Fremont	IA	071	OAX
Goodhue	MN	049	MPX	Harrison	IA	085	OAX
Hennepin	MN	053	MPX	Mills	IA	129	OAX
Isanti	MN	059	MPX	Monona	IA	133	OAX
Kanabec	MN	065	MPX	Montgomery	IA	137	OAX
Kandiyohi	MN	067	MPX	Page	IA	145	OAX
Lacqui Parle	MN	073	MPX	Pottawattamie	IA	155	OAX
Le Sueur	MN	079	MPX	Shelby	IA	165	OAX
McLeod	MN	085	MPX	Antelope	NE	003	OAX
Martin	MN	091	MPX	Boone	NE	011	OAX

Burt	NE	021	OAX	Calloway	KY	035	PAH
Butler	NE	023	OAX	Carlisle	KY	039	PAH
Cass	NE	025	OAX	Christian	KY	047	PAH
Cedar	NE	027	OAX	Crittenden	KY	055	PAH
Colfax	NE	037	OAX	Daviess	KY	059	PAH
Cuming	NE	039	OAX	Fulton	KY	075	PAH
Dodge	NE	053	OAX	Graves	KY	083	PAH
Douglas	NE	055	OAX	Henderson	KY	101	PAH
Gage	NE	067	OAX	Hickman	KY	105	PAH
Jefferson	NE	095	OAX	Hopkins	KY	107	PAH
Johnson	NE	097	OAX	Livingston	KY	139	PAH
Knox	NE	107	OAX	Lyon	KY	143	PAH
Lancaster	NE	109	OAX	McCracken	KY	145	PAH
Madison	NE	119	OAX	McLean	KY	149	PAH
Nemaha	NE	127	OAX	Marshall	KY	157	PAH
Otoe	NE	131	OAX	Muhlenberg	KY	177	PAH
Pawnee	NE	133	OAX	Todd	KY	219	PAH
Pierce	NE	139	OAX	Trigg	KY	221	PAH
Platte	NE	141	OAX	Union	KY	225	PAH
Richardson	NE	147	OAX	Webster	KY	233	PAH
Saline	NE	151	OAX	Bollinger	MO	017	PAH
Sarpy	NE	153	OAX	Butler	MO	023	PAH
Saunders	NE	155	OAX	Cape Girardeau	MO	031	PAH
Seward	NE	159	OAX	Carter	MO	035	PAH
Stanton	NE	167	OAX	Mississippi	MO	133	PAH
Thurston	NE	173	OAX	New Madrid	MO	143	PAH
Washington	NE	177	OAX	Perry	MO	157	PAH
Wayne	NE	179	OAX	Ripley	MO	181	PAH
				Scott	MO	201	PAH
Alexander	IL	003	PAH	Stoddard	MO	207	PAH
Edwards	IL	047	PAH	Wayne	MO	223	PAH
Franklin	IL	055	PAH				
Gallatin	IL	059	PAH	Alamosa	CO	003	PUB
Hamilton	IL	065	PAH	Baca	CO	009	PUB
Hardin	IL	069	PAH	Bent	CO	011	PUB
Jackson	IL	077	PAH	Conejos	CO	021	PUB
Jefferson	IL	081	PAH	Costilla	CO	023	PUB
Johnson	IL	087	PAH	Crowley	CO	025	PUB
Massac	IL	127	PAH	Custer	CO	027	PUB
Perry	IL	145	PAH	El Paso	CO	041	PUB
Pope	IL	151	PAH	Fremont	CO	043	PUB
Pulaski	IL	153	PAH	Huerfano	CO	055	PUB
Saline	IL	165	PAH	Kiowa	CO	061	PUB
Union	IL	181	PAH	Lake	CO	065	PUB
Wabash	IL	185	PAH	Las Animas	CO	071	PUB
Wayne	IL	191	PAH	Mineral	CO	079	PUB
White	IL	193	PAH	Otero	CO	089	PUB
Williamson	IL	199	PAH	Prowers	CO	099	PUB
Gibson	IN	051	PAH	Pueblo	CO	101	PUB
Pike	IN	125	PAH	Rio Grande	CO	105	PUB
Posey	IN	129	PAH	Saguache	CO	109	PUB
Spencer	IN	147	PAH	Teller	CO	119	PUB
Vanderburgh	IN	163	PAH				
Warrick	IN	173	PAH	Yellowstone Natl Pk	MT	113	RIW
Ballard	KY	007	PAH	Big Horn	WY	003	RIW
Caldwell	KY	033	PAH	Fremont	WY	013	RIW

Hot Springs	WY	017	RIW				
Johnson	WY	019	RIW	Anderson	KS	003	TOP
Lincoln	WY	023	RIW	Brown	KS	013	TOP
Natrona	WY	025	RIW	Clay	KS	027	TOP
Park	WY	029	RIW	Cloud	KS	029	TOP
Sublette	WY	035	RIW	Coffey	KS	031	TOP
Sweetwater	WY	037	RIW	Dickinson	KS	041	TOP
Teton	WY	039	RIW	Douglas	KS	045	TOP
Washakie	WY	043	RIW	Franklin	KS	059	TOP
				Geary	KS	061	TOP
Bourbon	KS	011	SGF	Jackson	KS	085	TOP
Cherokee	KS	021	SGF	Jefferson	KS	087	TOP
Crawford	KS	037	SGF	Lyon	KS	111	TOP
Barry	MO	009	SGF	Marshall	KS	117	TOP
Barton	MO	011	SGF	Morris	KS	127	TOP
Benton	MO	015	SGF	Nemaha	KS	131	TOP
Camden	MO	029	SGF	Osage	KS	139	TOP
Cedar	MO	039	SGF	Ottawa	KS	143	TOP
Christian	MO	043	SGF	Pottawatomie	KS	149	TOP
Dade	MO	057	SGF	Republic	KS	157	TOP
Dallas	MO	059	SGF	Riley	KS	161	TOP
Dent	MO	065	SGF	Shawnee	KS	177	TOP
Douglas	MO	067	SGF	Wabaunsee	KS	197	TOP
Greene	MO	077	SGF	Washington	KS	201	TOP
Hickory	MO	085	SGF				
Howell	MO	091	SGF	Bennett	SD	007	UNR
Jasper	MO	097	SGF	Butte	SD	019	UNR
Laclede	MO	105	SGF	Custer	SD	033	UNR
Lawrence	MO	109	SGF	Fall River	SD	047	UNR
McDonald	MO	119	SGF	Haakon	SD	055	UNR
Maries	MO	125	SGF	Harding	SD	063	UNR
Miller	MO	131	SGF	Jackson	SD	071	UNR
Morgan	MO	141	SGF	Lawrence	SD	081	UNR
Newton	MO	145	SGF	Meade	SD	093	UNR
Oregon	MO	149	SGF	Mellette	SD	095	UNR
Ozark	MO	153	SGF	Pennington	SD	103	UNR
Phelps	MO	161	SGF	Perkins	SD	105	UNR
Polk	MO	167	SGF	Shannon	SD	113	UNR
Pulaski	MO	169	SGF	Todd	SD	121	UNR
				Tripp	SD	123	UNR
				Ziebach	SD	137	UNR
				Campbell	WY	005	UNR
St. Clair	MO	185	SGF				
Shannon	MO	203	SGF				
Stone	MO	209	SGF				
Taney	MO	213	SGF				
Texas	MO	215	SGF	Crook	WY	011	UNR
Vernon	MO	217	SGF	Weston	WY	045	UNR
Webster	MO	225	SGF				
Wright	MO	229	SGF				

5.1.2 Listing by Eastern Region WFOs

county	state		primary	Somerset	MD	039	AKQ
<u>name</u>	<u>code</u>	<u>FIPS</u>	<u>wfo</u>	Wicomico	MD	045	AKQ
Dorchester	MD	019	AKQ	Worcester	MD	047	AKQ

Bertie	NC	015	AKQ	City of Poquoson	VA	735	AKQ
Camden	NC	029	AKQ	City of Portsmouth	VA	740	AKQ
Chowan	NC	041	AKQ	City of Richmond	VA	760	AKQ
Currituck	NC	053	AKQ	City of Suffolk	VA	800	AKQ
Gates	NC	073	AKQ	City of Virginia Bch	VA	810	AKQ
Hertford	NC	091	AKQ	City of Williamsburg	VA	830	AKQ
Northampton	NC	131	AKQ				
Pasquotank	NC	139	AKQ	Litchfield	CT	005	ALY
Perquimans	NC	143	AKQ	Berkshire	MA	003	ALY
Accomack	VA	001	AKQ	Albany	NY	001	ALY
Amelia	VA	007	AKQ	Columbia	NY	021	ALY
Brunswick	VA	025	AKQ	Dutchess	NY	027	ALY
Caroline	VA	033	AKQ	Fulton	NY	035	ALY
Charles City	VA	036	AKQ	Greene	NY	039	ALY
Chesterfield	VA	041	AKQ	Hamilton	NY	041	ALY
Cumberland	VA	049	AKQ	Herkimer	NY	043	ALY
Dinwiddie	VA	053	AKQ	Montgomery	NY	057	ALY
Essex	VA	057	AKQ	Rensselaer	NY	083	ALY
Fluvanna	VA	065	AKQ	Saratoga	NY	091	ALY
Gloucester	VA	073	AKQ	Schenectady	NY	093	ALY
Goochland	VA	075	AKQ	Schoharie	NY	095	ALY
Greensville	VA	081	AKQ	Ulster	NY	111	ALY
Hanover	VA	085	AKQ	Warren	NY	113	ALY
Henrico	VA	087	AKQ	Washington	NY	115	ALY
Isle of Wight	VA	093	AKQ	Bennington	VT	003	ALY
James City	VA	095	AKQ	Windham	VT	025	ALY
King and Queen	VA	097	AKQ				
King William	VA	101	AKQ	Broome	NY	007	BGM
Lancaster	VA	103	AKQ	Cayuga	NY	011	BGM
Louisa	VA	109	AKQ	Chemung	NY	015	BGM
Lunenburg	VA	111	AKQ	Chenango	NY	017	BGM
Mathews	VA	115	AKQ	Cortland	NY	023	BGM
Mecklenburg	VA	117	AKQ	Delaware	NY	025	BGM
Middlesex	VA	119	AKQ	Madison	NY	053	BGM
New Kent	VA	127	AKQ	Oneida	NY	065	BGM
Northampton	VA	131	AKQ	Onondaga	NY	067	BGM
Northumberland	VA	133	AKQ	Otsego	NY	077	BGM
Nottoway	VA	135	AKQ	Schuyler	NY	097	BGM
Powhatan	VA	145	AKQ	Seneca	NY	099	BGM
Prince Edward	VA	147	AKQ	Steuben	NY	101	BGM
Prince George	VA	149	AKQ	Sullivan	NY	105	BGM
Richmond	VA	159	AKQ	Tioga	NY	107	BGM
Southampton	VA	175	AKQ	Tompkins	NY	109	BGM
Surry	VA	181	AKQ	Yates	NY	123	BGM
Sussex	VA	183	AKQ	Bradford	PA	015	BGM
Westmoreland	VA	193	AKQ	Lackawanna	PA	069	BGM
York	VA	199	AKQ	Luzerne	PA	079	BGM
City of Chesapeake	VA	550	AKQ	Pike	PA	103	BGM
City of Colonial Hts	VA	570	AKQ	Susquehanna	PA	115	BGM
City of Emporia	VA	595	AKQ	Wayne	PA	127	BGM
City of Franklin	VA	620	AKQ	Wyoming	PA	131	BGM
City of Hampton	VA	650	AKQ				
City of Hopewell	VA	670	AKQ	Hartford	CT	003	BOX
City of Newport News	VA	700	AKQ	Tolland	CT	013	BOX
City of Norfolk	VA	710	AKQ	Windham	CT	015	BOX
City of Petersburg	VA	730	AKQ	Barnstable	MA	001	BOX

Bristol	MA	005	BOX	Piscataquis	ME	021	CAR
Dukes	MA	007	BOX	Somerset	ME	025	CAR
Essex	MA	009	BOX	Washington	ME	029	CAR
Franklin	MA	011	BOX				
Hampden	MA	013	BOX	Bryan	GA	029	CHS
Hampshire	MA	015	BOX	Bulloch	GA	031	CHS
Middlesex	MA	017	BOX	Candler	GA	043	CHS
Nantucket	MA	019	BOX	Chatham	GA	051	CHS
Norfolk	MA	021	BOX	Effingham	GA	103	CHS
Plymouth	MA	023	BOX	Evans	GA	109	CHS
Suffolk	MA	025	BOX	Jenkins	GA	165	CHS
Worcester	MA	027	BOX	Liberty	GA	179	CHS
Cheshire	NH	005	BOX	Long	GA	183	CHS
Hillsborough	NH	011	BOX	McIntosh	GA	191	CHS
Bristol	RI	001	BOX	Screven	GA	251	CHS
Kent	RI	003	BOX	Tattnall	GA	267	CHS
Newport	RI	005	BOX	Allendale	SC	005	CHS
Providence	RI	007	BOX	Beaufort	SC	013	CHS
Washington	RI	009	BOX	Berkeley	SC	015	CHS
				Charleston	SC	019	CHS
Clinton	NY	019	BTV	Colleton	SC	029	CHS
Essex	NY	031	BTV	Dorchester	SC	035	CHS
Franklin	NY	033	BTV	Hampton	SC	049	CHS
St. Lawrence	NY	089	BTV	Jasper	SC	053	CHS
Addison	VT	001	BTV				
Caledonia	VT	005	BTV	Ashland	OH	005	CLE
Chittenden	VT	007	BTV	Ashtabula	OH	007	CLE
Essex	VT	009	BTV	Crawford	OH	033	CLE
Franklin	VT	011	BTV	Cuyahoga	OH	035	CLE
GrandIsle	VT	013	BTV	Erie	OH	043	CLE
Lamoille	VT	015	BTV	Geauga	OH	055	CLE
Orange	VT	017	BTV	Hancock	OH	063	CLE
Orleans	VT	019	BTV	Holmes	OH	075	CLE
Rutland	VT	021	BTV	Huron	OH	077	CLE
Washington	VT	023	BTV	Knox	OH	083	CLE
Windsor	VT	027	BTV	Lake	OH	085	CLE
				Lorain	OH	093	CLE
Allegany	NY	003	BUF	Lucas	OH	095	CLE
Cattaraugus	NY	009	BUF	Mahoning	OH	099	CLE
Chautauqua	NY	013	BUF	Marion	OH	101	CLE
Erie	NY	029	BUF	Medina	OH	103	CLE
Genesee	NY	037	BUF	Morrow	OH	117	CLE
Jefferson	NY	045	BUF	Ottawa	OH	123	CLE
Lewis	NY	049	BUF	Portage	OH	133	CLE
Livingston	NY	051	BUF	Richland	OH	139	CLE
Monroe	NY	055	BUF	Sandusky	OH	143	CLE
Niagara	NY	063	BUF	Seneca	OH	147	CLE
Ontario	NY	069	BUF	Stark	OH	151	CLE
Orleans	NY	073	BUF	Summit	OH	153	CLE
Oswego	NY	075	BUF	Trumbull	OH	155	CLE
Wayne	NY	117	BUF	Wayne	OH	169	CLE
Wyoming	NY	121	BUF	Wood	OH	173	CLE
				Wyandot	OH	175	CLE
Aroostook	ME	003	CAR	Crawford	PA	039	CLE
Hancock	ME	009	CAR	Erie	PA	049	CLE
Penobscot	ME	019	CAR				

Adams	PA	001	CTP	McDowell	NC	111	GSP
Bedford	PA	009	CTP	Macon	NC	113	GSP
Blair	PA	013	CTP	Madison	NC	115	GSP
Cambria	PA	021	CTP	Mecklenburg	NC	119	GSP
Cameron	PA	023	CTP	Mitchell	NC	121	GSP
Centre	PA	027	CTP	Polk	NC	149	GSP
Clearfield	PA	033	CTP	Rowan	NC	159	GSP
Clinton	PA	035	CTP	Rutherford	NC	161	GSP
Columbia	PA	037	CTP	Swain	NC	173	GSP
Cumberland	PA	041	CTP	Transylvania	NC	175	GSP
Dauphin	PA	043	CTP	Union	NC	179	GSP
Elk	PA	047	CTP	Yancey	NC	199	GSP
Franklin	PA	055	CTP	Abbeville	SC	001	GSP
Fulton	PA	057	CTP	Anderson	SC	007	GSP
Huntingdon	PA	061	CTP	Cherokee	SC	021	GSP
Juniata	PA	067	CTP	Chester	SC	023	GSP
Lancaster	PA	071	CTP	Greenville	SC	045	GSP
Lebanon	PA	075	CTP	Greenwood	SC	047	GSP
Lycoming	PA	081	CTP	Laurens	SC	059	GSP
McKean	PA	083	CTP	Oconee	SC	073	GSP
Mifflin	PA	087	CTP	Pickens	SC	077	GSP
Montour	PA	093	CTP	Spartanburg	SC	083	GSP
Northumberland	PA	097	CTP	Union	SC	087	GSP
Perry	PA	099	CTP	York	SC	091	GSP
Potter	PA	105	CTP				
Schuylkill	PA	107	CTP	Androscoggin	ME	001	GYX
Snyder	PA	109	CTP	Cumberland	ME	005	GYX
Somerset	PA	111	CTP	Franklin	ME	007	GYX
Sullivan	PA	113	CTP	Kennebec	ME	011	GYX
Tioga	PA	117	CTP	Knox	ME	013	GYX
Union	PA	119	CTP	Lincoln	ME	015	GYX
Warren	PA	123	CTP	Oxford	ME	017	GYX
York	PA	133	CTP	Sagadahoc	ME	023	GYX
				Waldo	ME	027	GYX
Elbert	GA	105	GSP	York	ME	031	GYX
Franklin	GA	119	GSP	Belknap	NH	001	GYX
Habersham	GA	137	GSP	Carroll	NH	003	GYX
Hart	GA	147	GSP	Coos	NH	007	GYX
Rabun	GA	241	GSP	Grafton	NH	009	GYX
Stephens	GA	257	GSP	Merrimack	NH	013	GYX
Alexander	NC	003	GSP	Rockingham	NH	015	GYX
Avery	NC	011	GSP	Strafford	NH	017	GYX
Buncombe	NC	021	GSP	Sullivan	NH	019	GYX
Burke	NC	023	GSP				
Cabarrus	NC	025	GSP	Bladen	NC	017	ILM
Caldwell	NC	027	GSP	Brunswick	NC	019	ILM
Catawba	NC	035	GSP	Columbus	NC	047	ILM
Cleveland	NC	045	GSP	NewHanover	NC	129	ILM
Davie	NC	059	GSP	Pender	NC	141	ILM
Gaston	NC	071	GSP	Robeson	NC	155	ILM
Graham	NC	075	GSP	Darlington	SC	031	ILM
Haywood	NC	087	GSP	Dillon	SC	033	ILM
Henderson	NC	089	GSP	Florence	SC	041	ILM
Iredell	NC	097	GSP	Georgetown	SC	043	ILM
Jackson	NC	099	GSP	Horry	SC	051	ILM
Lincoln	NC	109	GSP	Marion	SC	067	ILM

Marlboro	SC	069	ILM	Jefferson	WV	037	LWX
Williamsburg	SC	089	ILM	Mineral	WV	057	LWX
				Morgan	WV	065	LWX
District of Columbia	DC	001	LWX	Pendleton	WV	071	LWX
Allegany	MD	001	LWX				
Anne Arundel	MD	003	LWX	Beaufort	NC	013	MHX
Baltimore	MD	005	LWX	Carteret	NC	031	MHX
Calvert	MD	009	LWX	Craven	NC	049	MHX
Carroll	MD	013	LWX	Mainland Dare	NC	055	MHX
Charles	MD	017	LWX	Outer Banks Dare	NC	055	MHX
Frederick	MD	021	LWX	Duplin	NC	061	MHX
Harford	MD	025	LWX	Greene	NC	079	MHX
Howard	MD	027	LWX	Outer Banks Hyde	NC	095	MHX
Montgomery	MD	031	LWX	Mainland Hyde	NC	095	MHX
Prince Georges	MD	033	LWX	Jones	NC	103	MHX
St. Marys	MD	037	LWX	Lenoir	NC	107	MHX
Washington	MD	043	LWX	Martin	NC	117	MHX
Baltimore City	MD	510	LWX	Onslow	NC	133	MHX
Albemarle	VA	003	LWX	Pamlico	NC	137	MHX
Arlington	VA	013	LWX	Pitt	NC	147	MHX
Augusta	VA	015	LWX	Tyrrell	NC	177	MHX
Clarke	VA	043	LWX	Washington	NC	187	MHX
Culpeper	VA	047	LWX				
Fairfax	VA	059	LWX	Fairfield	CT	001	OKX
Fauquier	VA	061	LWX	Middlesex	CT	007	OKX
Frederick	VA	069	LWX	New Haven	CT	009	OKX
Greene	VA	079	LWX	New London	CT	011	OKX
Highland	VA	091	LWX	Bergen	NJ	003	OKX
King George	VA	099	LWX	Essex	NJ	013	OKX
Loudoun	VA	107	LWX	Hudson	NJ	017	OKX
Madison	VA	113	LWX	Passaic	NJ	031	OKX
Nelson	VA	125	LWX	Union	NJ	039	OKX
Orange	VA	137	LWX	Bronx	NY	005	OKX
Page	VA	139	LWX	Kings	NY	047	OKX
Prince William	VA	153	LWX	Nassau	NY	059	OKX
Rappahannock	VA	157	LWX	New York	NY	061	OKX
Rockingham	VA	165	LWX	Orange	NY	071	OKX
Shenandoah	VA	171	LWX	Putnam	NY	079	OKX
Spotsylvania	VA	177	LWX	Queens	NY	081	OKX
Stafford	VA	179	LWX	Richmond	NY	085	OKX
Warren	VA	187	LWX	Rockland	NY	087	OKX
City of Alexandria	VA	510	LWX	Suffolk	NY	103	OKX
City of Charlottsvll	VA	540	LWX	Westchester	NY	119	OKX
City of Fairfax	VA	600	LWX				
City of Falls Church	VA	610	LWX	Garrett	MD	023	PBZ
City of Fredericksbrg	VA	630	LWX	Belmont	OH	013	PBZ
City of Harrisonburg	VA	660	LWX	Carroll	OH	019	PBZ
City of Manassas	VA	683	LWX	Columbiana	OH	029	PBZ
City of Manassas Pk	VA	685	LWX	Coshocton	OH	031	PBZ
City of Staunton	VA	790	LWX	Guernsey	OH	059	PBZ
City of Waynesboro	VA	820	LWX	Harrison	OH	067	PBZ
City of Winchester	VA	840	LWX	Jefferson	OH	081	PBZ
Berkeley	WV	003	LWX	Monroe	OH	111	PBZ
Grant	WV	023	LWX	Muskingum	OH	119	PBZ
Hampshire	WV	027	LWX	Noble	OH	121	PBZ
Hardy	WV	031	LWX	Tuscarawas	OH	157	PBZ

Allegheny	PA	003	PBZ	Montgomery	PA	091	PHI
Armstrong	PA	005	PBZ	Northampton	PA	095	PHI
Beaver	PA	007	PBZ	Philadelphia	PA	101	PHI
Butler	PA	019	PBZ				
Clarion	PA	031	PBZ	Alamance	NC	001	RAH
Fayette	PA	051	PBZ	Anson	NC	007	RAH
Forest	PA	053	PBZ	Chatham	NC	037	RAH
Greene	PA	059	PBZ	Cumberland	NC	051	RAH
Indiana	PA	063	PBZ	Davidson	NC	057	RAH
Jefferson	PA	065	PBZ	Durham	NC	063	RAH
Lawrence	PA	073	PBZ	Edgecombe	NC	065	RAH
Mercer	PA	085	PBZ	Forsyth	NC	067	RAH
Venango	PA	121	PBZ	Franklin	NC	069	RAH
Washington	PA	125	PBZ	Granville	NC	077	RAH
Westmoreland	PA	129	PBZ	Guilford	NC	081	RAH
Brooke	WV	009	PBZ	Halifax	NC	083	RAH
Hancock	WV	029	PBZ	Harnett	NC	085	RAH
Marion	WV	049	PBZ	Hoke	NC	093	RAH
Marshall	WV	051	PBZ	Johnston	NC	101	RAH
Monongalia	WV	061	PBZ	Lee	NC	105	RAH
Ohio	WV	069	PBZ	Montgomery	NC	123	RAH
Preston	WV	077	PBZ	Moore	NC	125	RAH
Tucker	WV	093	PBZ	Nash	NC	127	RAH
Wetzel	WV	103	PBZ	Orange	NC	135	RAH
				Person	NC	145	RAH
Kent	DE	001	PHI	Randolph	NC	151	RAH
New Castle	DE	003	PHI	Richmond	NC	153	RAH
Sussex	DE	005	PHI	Sampson	NC	163	RAH
Caroline	MD	011	PHI	Scotland	NC	165	RAH
Cecil	MD	015	PHI	Stanly	NC	167	RAH
Kent	MD	029	PHI	Vance	NC	181	RAH
Queen Anne's	MD	035	PHI	Wake	NC	183	RAH
Talbo	MD	041	PHI	Warren	NC	185	RAH
Atlantic	NJ	001	PHI	Wayne	NC	191	RAH
Burlington	NJ	005	PHI	Wilson	NC	195	RAH
Camden	NJ	007	PHI				
Cape May	NJ	009	PHI	Boyd	KY	019	RLX
Cumberland	NJ	011	PHI	Carter	KY	043	RLX
Gloucester	NJ	015	PHI	Greenup	KY	089	RLX
Hunterdon	NJ	019	PHI	Lawrence	KY	127	RLX
Mercer	NJ	021	PHI	Athens	OH	009	RLX
Middlesex	NJ	023	PHI	Gallia	OH	053	RLX
Monmouth	NJ	025	PHI	Jackson	OH	079	RLX
Morris	NJ	027	PHI	Lawrence	OH	087	RLX
Ocean	NJ	029	PHI	Meigs	OH	105	RLX
Salem	NJ	033	PHI	Morgan	OH	115	RLX
Somerset	NJ	035	PHI	Perry	OH	127	RLX
Sussex	NJ	037	PHI	Vinton	OH	163	RLX
Warren	NJ	041	PHI	Washington	OH	167	RLX
Berks	PA	011	PHI	Buchanan	VA	027	RLX
Bucks	PA	017	PHI	Dickenson	VA	051	RLX
Carbon	PA	025	PHI	Barbour	WV	001	RLX
Chester	PA	029	PHI	Boone	WV	005	RLX
Delaware	PA	045	PHI	Braxton	WV	007	RLX
Lehigh	PA	077	PHI	Cabell	WV	011	RLX
Monroe	PA	089	PHI	Calhoun	WV	013	RLX

Clay	WV	015	RLX	Appomattox	VA	011	RNK
Doddridge	WV	017	RLX	Bath	VA	017	RNK
Fayette	WV	019	RLX	Bedford	VA	019	RNK
Gilmer	WV	021	RLX	Bland	VA	021	RNK
Harrison	WV	033	RLX	Botetourt	VA	023	RNK
Jackson	WV	035	RLX	Buckingham	VA	029	RNK
Kanawha	WV	039	RLX	Campbell	VA	031	RNK
Lewis	WV	041	RLX	Carroll	VA	035	RNK
Lincoln	WV	043	RLX	Charlotte	VA	037	RNK
Logan	WV	045	RLX	Craig	VA	045	RNK
McDowell	WV	047	RLX	Floyd	VA	063	RNK
Mason	WV	053	RLX	Franklin	VA	067	RNK
Mingo	WV	059	RLX	Giles	VA	071	RNK
Nicholas	WV	067	RLX	Grayson	VA	077	RNK
Pleasants	WV	073	RLX	Halifax	VA	083	RNK
Pocahontas	WV	075	RLX	Henry	VA	089	RNK
Putnam	WV	079	RLX	Montgomery	VA	121	RNK
Raleigh	WV	081	RLX	Patrick	VA	141	RNK
Randolph	WV	083	RLX	Pittsylvania	VA	143	RNK
Ritchie	WV	085	RLX	Pulaski	VA	155	RNK
Roane	WV	087	RLX	Roanoke	VA	161	RNK
Taylor	WV	091	RLX	Rockbridge	VA	163	RNK
Tyler	WV	095	RLX	Smyth	VA	173	RNK
Upshur	WV	097	RLX	Tazewell	VA	185	RNK
Wayne	WV	099	RLX	Wythe	VA	197	RNK
Webster	WV	101	RLX	Bedford	VA	515	RNK
Wirt	WV	105	RLX	Buena Vista	VA	530	RNK
Wood	WV	107	RLX	Clifton Forge	VA	560	RNK
Wyoming	WV	109	RLX	Covington	VA	580	RNK
				Danville	VA	590	RNK
Alleghany	NC	005	RNK	Galax	VA	640	RNK
Ashe	NC	009	RNK	Lexington	VA	678	RNK
Caswell	NC	033	RNK	Lynchburg	VA	680	RNK
Rockingham	NC	157	RNK	Martinsville	VA	690	RNK
Stokes	NC	169	RNK	Radford	VA	750	RNK
Surry	NC	171	RNK	Roanoke	VA	770	RNK
Watauga	NC	189	RNK	Salem	VA	775	RNK
Wilkes	NC	193	RNK	Greenbrier	WV	025	RNK
Yadkin	NC	197	RNK	Mercer	WV	055	RNK
Alleghany	VA	005	RNK	Monroe	WV	063	RNK
Amherst	VA	009	RNK	Summers	WV	089	RNK

5.1.3 Listing by Southern Region WFOs

county name	state code	FIPS	primary wfo				
Bernalillo	NM	001	ABQ	Lincoln	NM	027	ABQ
Catron	NM	003	ABQ	Los Alamos	NM	028	ABQ
Chaves	NM	005	ABQ	McKinley	NM	031	ABQ
Cibola	NM	006	ABQ	Mora	NM	033	ABQ
Colfax	NM	007	ABQ	Quay	NM	037	ABQ
Curry	NM	009	ABQ	Rio Arriba	NM	039	ABQ
De Baca	NM	011	ABQ	Roosevelt	NM	041	ABQ
Guadalupe	NM	019	ABQ	Sandoval	NM	043	ABQ
Harding	NM	021	ABQ	San Juan	NM	045	ABQ
				San Miguel	NM	047	ABQ
				Santa Fe	NM	049	ABQ

Socorro	NM	053	ABQ	Perry	AL	105	BMX
Taos	NM	055	ABQ	Pickens	AL	107	BMX
Torrance	NM	057	ABQ	Pike	AL	109	BMX
Union	NM	059	ABQ	Randolph	AL	111	BMX
Valencia	NM	061	ABQ	Russell	AL	113	BMX
				St. Clair	AL	115	BMX
Beaver	OK	007	AMA	Shelby	AL	117	BMX
Cimarron	OK	025	AMA	Sumter	AL	119	BMX
Texas	OK	139	AMA	Talladega	AL	121	BMX
Armstrong	TX	011	AMA	Tallapoosa	AL	123	BMX
Carson	TX	065	AMA	Tuscaloosa	AL	125	BMX
Collingsworth	TX	087	AMA	Walker	AL	127	BMX
Dallam	TX	111	AMA	Winston	AL	133	BMX
Deaf Smith	TX	117	AMA				
Donley	TX	129	AMA	Brooks	TX	047	BRO
Gray	TX	179	AMA	Cameron	TX	061	BRO
Hansford	TX	195	AMA	Hidalgo	TX	215	BRO
Hartley	TX	205	AMA	Jim Hogg	TX	247	BRO
Hemphill	TX	211	AMA	Kenedy	TX	261	BRO
Hutchinson	TX	233	AMA	Starr	TX	427	BRO
Lipscomb	TX	295	AMA	Willacy	TX	489	BRO
Moore	TX	341	AMA	Zapata	TX	505	BRO
Ochiltree	TX	357	AMA				
Oldham	TX	359	AMA	Burke	GA	033	CAE
Potter	TX	375	AMA	Columbia	GA	073	CAE
Randall	TX	381	AMA	Lincoln	GA	181	CAE
Roberts	TX	393	AMA	McDuffie	GA	189	CAE
Sherman	TX	421	AMA	Richmond	GA	245	CAE
Wheeler	TX	483	AMA	Aiken	SC	003	CAE
				Bamberg	SC	009	CAE
Autauga	AL	001	BMX	Barnwell	SC	011	CAE
Barbour	AL	005	BMX	Calhoun	SC	017	CAE
Bibb	AL	007	BMX	Chesterfield	SC	025	CAE
Blount	AL	009	BMX	Clarendon	SC	027	CAE
Bullock	AL	011	BMX	Edgefield	SC	037	CAE
Calhoun	AL	015	BMX	Fairfield	SC	039	CAE
Chambers	AL	017	BMX	Kershaw	SC	055	CAE
Cherokee	AL	019	BMX	Lancaster	SC	057	CAE
Chilton	AL	021	BMX	Lee	SC	061	CAE
Clay	AL	027	BMX	Lexington	SC	063	CAE
Cleburne	AL	029	BMX	McCormick	SC	065	CAE
Coosa	AL	037	BMX	Newberry	SC	071	CAE
Dallas	AL	047	BMX	Orangeburg	SC	075	CAE
Elmore	AL	051	BMX	Richland	SC	079	CAE
Etowah	AL	055	BMX	Saluda	SC	081	CAE
Fayette	AL	057	BMX	Sumter	SC	085	CAE
Greene	AL	063	BMX				
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

McMullen	TX	311	CRP	Barrow	GA	013	FFC
Nueces	TX	355	CRP	Bartow	GA	015	FFC
Refugio	TX	391	CRP	Bibb	GA	021	FFC
San Patricio	TX	409	CRP	Bleckley	GA	023	FFC
Victoria	TX	469	CRP	Butts	GA	035	FFC
Webb	TX	479	CRP	Carroll	GA	045	FFC
				Catoosa	GA	047	FFC
Dona Ana	NM	013	EPZ	Chattahoochee	GA	053	FFC
Grant	NM	017	EPZ	Chattooga	GA	055	FFC
Hidalgo	NM	023	EPZ	Cherokee	GA	057	FFC
Luna	NM	029	EPZ	Clarke	GA	059	FFC
Otero	NM	035	EPZ	Clayton	GA	063	FFC
Sierra	NM	051	EPZ	Cobb	GA	067	FFC
El Paso	TX	141	EPZ	Coweta	GA	077	FFC
Hudspeth	TX	229	EPZ	Crawford	GA	079	FFC
				Crisp	GA	081	FFC
Atascosa	TX	013	EWX	Dade	GA	083	FFC
Bandera	TX	019	EWX	Dawson	GA	085	FFC
Bastrop	TX	021	EWX	DeKalb	GA	089	FFC
Bexar	TX	029	EWX	Dodge	GA	091	FFC
Blanco	TX	031	EWX	Dooly	GA	093	FFC
Burnet	TX	053	EWX	Douglas	GA	097	FFC
Caldwell	TX	055	EWX	Emanuel	GA	107	FFC
Comal	TX	091	EWX	Fannin	GA	111	FFC
DeWitt	TX	123	EWX	Fayette	GA 1	13	FFC
Dimmit	TX	127	EWX	Floyd	GA	115	FFC
Edwards	TX	137	EWX	Forsyth	GA	117	FFC
Fayette	TX	149	EWX	Fulton	GA	121	FFC
Frio	TX	163	EWX	Gilmer	GA	123	FFC
Gillespie	TX	171	EWX	Glascok	GA	125	FFC
Gonzales	TX	177	EWX	Gordon	GA	129	FFC
Guadalupe	TX	187	EWX	Greene	GA	133	FFC
Hays	TX	209	EWX	Gwinnett	GA	135	FFC
Karnes	TX	255	EWX	Hall	GA	139	FFC
Kendall	TX	259	EWX	Hancock	GA	141	FFC
Kerr	TX	265	EWX	Haralson	GA	143	FFC
Kinney	TX	271	EWX	Harris	GA	145	FFC
Lavaca	TX	285	EWX	Heard	GA	149	FFC
Lee	TX	287	EWX	Henry	GA	151	FFC
Llano	TX	299	EWX	Houston	GA	153	FFC
Maverick	TX	323	EWX	Jackson	GA	157	FFC
Medina	TX	325	EWX	Jasper	GA	159	FFC
Real	TX	385	EWX	Jefferson	GA	163	FFC
Travis	TX	453	EWX	Johnson	GA	167	FFC
Uvalde	TX	463	EWX	Jones	GA	169	FFC
Val Verde	TX	465	EWX	Lamar	GA	171	FFC
Williamson	TX	491	EWX	Lurens	GA	175	FFC
Wilson	TX	493	EWX	Lumpkin	GA	187	FFC
Zavala	TX	507	EWX	Macon	GA	193	FFC
				Madison	GA	195	FFC
Upper Keys in Monroe FL		087	EYW	Marion	GA	197	FFC
Lower Keys in Monroe FL		087	EYW	Meriwether	GA	199	FFC
Mid Keys in Monroe FL		087	EYW	Monroe	GA	207	FFC
				Montgomery	GA	209	FFC
Baldwin	GA	009	FFC	Morgan	GA	211	FFC
Banks	GA	011	FFC	Murray	GA	213	FFC

Muscogee	GA	215	FFC	Hamilton	TX	193	FWD
Newton	GA	217	FFC	Henderson	TX	213	FWD
Oconee	GA	219	FFC	Hill	TX	217	FWD
Oglethorpe	GA	221	FFC	Hood	TX	221	FWD
Paulding	GA	223	FFC	Hopkins	TX	223	FWD
Peach	GA	225	FFC	Hunt	TX	231	FWD
Pickens	GA	227	FFC	Jack	TX	237	FWD
Pike	GA	231	FFC	Johnson	TX	251	FWD
Polk	GA	233	FFC	Kaufman	TX	257	FWD
Pulaski	GA	235	FFC	Lamar	TX	277	FWD
Putnam	GA	237	FFC	Lampasas	TX	281	FWD
Rockdale	GA	247	FFC	Leon	TX	289	FWD
Schley	GA	249	FFC	Limestone	TX	293	FWD
Spalding	GA	255	FFC	McLennan	TX	309	FWD
Stewart	GA	259	FFC	Milam	TX	331	FWD
Sumter	GA	261	FFC	Mills	TX	333	FWD
Talbot	GA	263	FFC	Montague	TX	337	FWD
Taliaferro	GA	265	FFC	Navarro	TX	349	FWD
Taylor	GA	269	FFC	Palo Pinto	TX	363	FWD
Telfair	GA	271	FFC	Parker	TX	367	FWD
Toombs	GA	279	FFC	Rains	TX	379	FWD
Towns	GA	281	FFC	Robertson	TX	395	FWD
Treutlen	GA	283	FFC	Rockwall	TX	397	FWD
Troup	GA	285	FFC	Somervell	TX	425	FWD
Twiggs	GA	289	FFC	Stephens	TX	429	FWD
Union	GA	291	FFC	Tarrant	TX	439	FWD
Upton	GA	293	FFC	Van Zandt	TX	467	FWD
Walker	GA	295	FFC	Wise	TX	497	FWD
Walton	GA	297	FFC	Young	TX	503	FWD
Warren	GA	301	FFC				
Washington	GA	303	FFC	Austin	TX	015	HGX
Webster	GA	307	FFC	Brazoria	TX	039	HGX
Wheeler	GA	309	FFC	Brazos	TX	041	HGX
White	GA	311	FFC	Burleson	TX	051	HGX
Whitfield	GA	313	FFC	Chambers	TX	071	HGX
Wilcox	GA	315	FFC	Colorado	TX	089	HGX
Wilkes	GA	317	FFC	Fort Bend	TX	157	HGX
Wilkinson	GA	319	FFC	Galveston	TX	167	HGX
				Grimes	TX	185	HGX
Anderson	TX	001	FWD	Harris	TX	201	HGX
Bell	TX	027	FWD	Houston	TX	225	HGX
Bosque	TX	035	FWD	Jackson	TX	239	HGX
Collin	TX	085	FWD	Liberty	TX	291	HGX
Comanche	TX	093	FWD	Madison	TX	313	HGX
Cooke	TX	097	FWD	Matagorda	TX	321	HGX
Coryell	TX	099	FWD	Montgomery	TX	339	HGX
Dallas	TX	113	FWD	Polk	TX	373	HGX
Delta	TX	119	FWD	San Jacinto	TX	407	HGX
Denton	TX	121	FWD	Trinity	TX	455	HGX
Eastland	TX	133	FWD	Walker	TX	471	HGX
Ellis	TX	139	FWD	Waller	TX	473	HGX
Erath	TX	143	FWD	Washington	TX	477	HGX
Falls	TX	145	FWD	Wharton	TX	481	HGX
Fannin	TX	147	FWD				
Freestone	TX	161	FWD	Colbert	AL	033	HUN
Grayson	TX	181	FWD	Cullman	AL	043	HUN

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

St. Mary	LA	101	LCH	Lamb	TX	279	LUB
Vermilion	LA	113	LCH	Lubbock	TX	303	LUB
Vernon	LA	115	LCH	Lynn	TX	305	LUB
Hardin	TX	199	LCH	Motley	TX	345	LUB
Jasper	TX	241	LCH	Parmer	TX	369	LUB
Jefferson	TX	245	LCH	Stonewall	TX	433	LUB
Newton	TX	351	LCH	Swisher	TX	437	LUB
Orange	TX	361	LCH	Terry	TX	445	LUB
Tyler	TX	457	LCH	Yoakum	TX	501	LUB
Ascension	LA	005	LIX	Arkansas	AR	001	LZK
Assumption	LA	007	LIX	Baxter	AR	005	LZK
East Baton Rouge	LA	033	LIX	Boone	AR	009	LZK
East Feliciana	LA	037	LIX	Bradley	AR	011	LZK
Iberville	LA	047	LIX	Calhoun	AR	013	LZK
Jefferson	LA	051	LIX	Clark	AR	019	LZK
Lafourche	LA	057	LIX	Cleburne	AR	023	LZK
Livingston	LA	063	LIX	Cleveland	AR	025	LZK
Orleans	LA	071	LIX	Conway	AR	029	LZK
Plaquemines	LA	075	LIX	Dallas	AR	039	LZK
Pointe Coupee	LA	077	LIX	Desha	AR	041	LZK
St. Bernard	LA	087	LIX	Drew	AR	043	LZK
St. Charles	LA	089	LIX	Faulkner	AR	045	LZK
St. Helena	LA	091	LIX	Fulton	AR	049	LZK
St. James	LA	093	LIX	Garland	AR	051	LZK
St. John The Baptist	LA	095	LIX	Grant	AR	053	LZK
St. Tammany	LA	103	LIX	Hot Spring	AR	059	LZK
Tangipahoa	LA	105	LIX	Independence	AR	063	LZK
Terrebonne	LA	109	LIX	Izard	AR	065	LZK
Washington	LA	117	LIX	Jackson	AR	067	LZK
West Baton Rouge	LA	121	LIX	Jefferson	AR	069	LZK
West Feliciana	LA	125	LIX	Johnson	AR	071	LZK
Amite	MS	005	LIX	Lincoln	AR	079	LZK
Hancock	MS	045	LIX	Logan	AR	083	LZK
Harrison	MS	047	LIX	Lonoke	AR	085	LZK
Jackson	MS	059	LIX	Marion	AR	089	LZK
Pearl River	MS	109	LIX	Monroe	AR	095	LZK
Pike	MS	113	LIX	Montgomery	AR	097	LZK
Walthall	MS	147	LIX	Newton	AR	101	LZK
Wilkinson	MS	157	LIX	Ouachita	AR	103	LZK
Bailey	TX	017	LUB	Perry	AR	105	LZK
Briscoe	TX	045	LUB	Pike	AR	109	LZK
Castro	TX	069	LUB	Polk	AR	113	LZK
Childress	TX	075	LUB	Pope	AR	115	LZK
Cochran	TX	079	LUB	Prairie	AR	117	LZK
Cottle	TX	101	LUB	Pulaski	AR	119	LZK
Crosby	TX	107	LUB	Saline	AR	125	LZK
Dickens	TX	125	LUB	Scott	AR	127	LZK
Floyd	TX	153	LUB	Searcy	AR	129	LZK
Garza	TX	169	LUB	Sharp	AR	135	LZK
Hale	TX	189	LUB	Stone	AR	137	LZK
Hall	TX	191	LUB	Van Buren	AR	141	LZK
Hockley	TX	219	LUB	White	AR	145	LZK
Kent	TX	263	LUB	Woodruff	AR	147	LZK
King	TX	269	LUB	Yell	AR	149	LZK

Eddy	NM	015	MAF	Tallahatchie	MS	135	MEG
Lea	NM	025	MAF	Tate	MS	137	MEG
Andrews	TX	003	MAF	Tippah	MS	139	MEG
Borden	TX	033	MAF	Tishomingo	MS	141	MEG
Brewster	TX	043	MAF	Tunica	MS	143	MEG
Crane	TX	103	MAF	Union	MS	145	MEG
Culberson	TX	109	MAF	Yalobusha	MS	161	MEG
Dawson	TX	115	MAF	Carroll	TN	017	MEG
Ector	TX	135	MAF	Chester	TN	023	MEG
Gaines	TX	165	MAF	Crockett	TN	033	MEG
Glasscock	TX	173	MAF	Decatur	TN	039	MEG
Howard	TX	227	MAF	Dyer	TN	045	MEG
Jeff Davis	TX	243	MAF	Fayette	TN	047	MEG
Loving	TX	301	MAF	Gibson	TN	053	MEG
Martin	TX	317	MAF	Hardeman	TN	069	MEG
Midland	TX	329	MAF	Hardin	TN	071	MEG
Mitchell	TX	335	MAF	Haywood	TN	075	MEG
Pecos	TX	371	MAF	Henderson	TN	077	MEG
Presidio	TX	377	MAF	Henry	TN	079	MEG
Reagan	TX	383	MAF	Lake	TN	095	MEG
Reeves	TX	389	MAF	Lauderdale	TN	097	MEG
Scurry	TX	415	MAF	McNairy	TN	109	MEG
Terrell	TX	443	MAF	Madison	TN	113	MEG
Upton	TX	461	MAF	Obion	TN	131	MEG
Ward	TX	475	MAF	Shelby	TN	157	MEG
Winkler	TX	495	MAF	Tipton	TN	167	MEG
				Weakley	TN	183	MEG
Clay	AR	021	MEG				
Craighead	AR	031	MEG	Broward	FL	011	MFL
Crittenden	AR	035	MEG	Collier	FL	021	MFL
Cross	AR	037	MEG	Glades	FL	043	MFL
Greene	AR	055	MEG	Hendry	FL	051	MFL
Lawrence	AR	075	MEG	Miami-Dade	FL	086	MFL
Lee	AR	077	MEG	Mainland Monroe	FL	087	MFL
Mississippi	AR	093	MEG	Palm Beach	FL	099	MFL
Phillips	AR	107	MEG				
Poinsett	AR	111	MEG	Brevard	FL	009	MLB
Randolph	AR	121	MEG	Indian River	FL	061	MLB
St. Francis	AR	123	MEG	Lake	FL	069	MLB
Dunklin	MO	069	MEG	Martin	FL	085	MLB
Pemiscot	MO	155	MEG	Okeechobee	FL	093	MLB
Alcorn	MS	003	MEG	Orange	FL	095	MLB
Benton	MS	009	MEG	Osceola	FL	097	MLB
Calhoun	MS	013	MEG	St. Lucie	FL	111	MLB
Chickasaw	MS	017	MEG	Seminole	FL	117	MLB
Coahoma	MS	027	MEG	Volusia	FL	127	MLB
De Soto	MS	033	MEG				
Itawamba	MS	057	MEG	Baldwin	AL	003	MOB
Lafayette	MS	071	MEG	Butler	AL	013	MOB
Lee	MS	081	MEG	Choctaw	AL	023	MOB
Marshall	MS	093	MEG	Clarke	AL	025	MOB
Monroe	MS	095	MEG	Conecuh	AL	035	MOB
Panola	MS	107	MEG	Covington	AL	039	MOB
Pontotoc	MS	115	MEG	Crenshaw	AL	041	MOB
Prentiss	MS	117	MEG	Escambia	AL	053	MOB
Quitman	MS	119	MEG	Mobile	AL	097	MOB

Monroe	AL	099	MOB	Benton	TN	005	OHX
Washington	AL	129	MOB	Cannon	TN	015	OHX
Wilcox	AL	131	MOB	Cheatham	TN	021	OHX
Escambia	FL	033	MOB	Clay	TN	027	OHX
Okaloosa	FL	091	MOB	Coffee	TN	031	OHX
Santa Rosa	FL	113	MOB	Cumberland	TN	035	OHX
George	MS	039	MOB	Davidson	TN	037	OHX
Greene	MS	041	MOB	DeKalb	TN	041	OHX
Perry	MS	111	MOB	Dickson	TN	043	OHX
Stone	MS	131	MOB	Fentress	TN	049	OHX
Wayne	MS	153	MOB	Franklin	TN	051	OHX
				Giles	TN	055	OHX
Cherokee	NC	039	MRX	Grundy	TN	061	OHX
Clay	NC	043	MRX	Hickman	TN	081	OHX
Anderson	TN	001	MRX	Houston	TN	083	OHX
Bledsoe	TN	007	MRX	Humphreys	TN	085	OHX
Blount	TN	009	MRX	Jackson	TN	087	OHX
Bradley	TN	011	MRX	Lawrence	TN	099	OHX
Campbell	TN	013	MRX	Lewis	TN	101	OHX
Carter	TN	019	MRX	Lincoln	TN	103	OHX
Claiborne	TN	025	MRX	Macon	TN	111	OHX
Cocke	TN	029	MRX	Marshall	TN	117	OHX
Grainger	TN	057	MRX	Mauy	TN	119	OHX
Greene	TN	059	MRX	Montgomery	TN	125	OHX
Hamblen	TN	063	MRX	Moore	TN	127	OHX
Hamilton	TN	065	MRX	Overton	TN	133	OHX
Hancock	TN	067	MRX	Perry	TN	135	OHX
Hawkins	TN	073	MRX	Pickett	TN	137	OHX
Jefferson	TN	089	MRX	Putnam	TN	141	OHX
Johnson	TN	091	MRX	Robertson	TN	147	OHX
Knox	TN	093	MRX	Rutherford	TN	149	OHX
Loudon	TN	105	MRX	Smith	TN	159	OHX
McMinn	TN	107	MRX	Stewart	TN	161	OHX
Marion	TN	115	MRX	Sumner	TN	165	OHX
Meigs	TN	121	MRX	Trousdale	TN	169	OHX
Monroe	TN	123	MRX	Van Buren	TN	175	OHX
Morgan	TN	129	MRX	Warren	TN	177	OHX
Polk	TN	139	MRX	Wayne	TN	181	OHX
Rhea	TN	143	MRX	White	TN	185	OHX
Roane	TN	145	MRX	Williamson	TN	187	OHX
Scott	TN	151	MRX	Wilson	TN	189	OHX
Sequatchie	TN	153	MRX				
Sevier	TN	155	MRX	Alfalfa	OK	003	OUN
Sullivan	TN	163	MRX	Atoka	OK	005	OUN
Unicoi	TN	171	MRX	Beckham	OK	009	OUN
Union	TN	173	MRX	Blaine	OK	011	OUN
Washington	TN	179	MRX	Bryan	OK	013	OUN
Lee	VA	105	MRX	Caddo	OK	015	OUN
Russell	VA	167	MRX	Canadian	OK	017	OUN
Scott	VA	169	MRX	Carter	OK	019	OUN
Washington	VA	191	MRX	Cleveland	OK	027	OUN
Wise	VA	195	MRX	Coal	OK	029	OUN
City of Bristol	VA	520	MRX	Comanche	OK	031	OUN
City of Norton	VA	720	MRX	Cotton	OK	033	OUN
				Custer	OK	039	OUN
Bedford	TN	003	OHX	Dewey	OK	043	OUN

Ellis	OK	045	OUN	Claiborne	LA	027	SHV
Garfield	OK	047	OUN	DeSoto	LA	031	SHV
Garvin	OK	049	OUN	Grant	LA	043	SHV
Grady	OK	051	OUN	Jackson	LA	049	SHV
Grant	OK	053	OUN	La Salle	LA	059	SHV
Greer	OK	055	OUN	Lincoln	LA	061	SHV
Harmon	OK	057	OUN	Natchitoches	LA	069	SHV
Harper	OK	059	OUN	Ouachita	LA	073	SHV
Hughes	OK	063	OUN	Red River	LA	081	SHV
Jackson	OK	065	OUN	Sabine	LA	085	SHV
Jefferson	OK	067	OUN	Union	LA	111	SHV
Johnston	OK	069	OUN	Webster	LA	119	SHV
Kay	OK	071	OUN	Winn	LA	127	SHV
Kingfisher	OK	073	OUN	McCurtain	OK	089	SHV
Kiowa	OK	075	OUN	Angelina	TX	005	SHV
Lincoln	OK	081	OUN	Bowie	TX	037	SHV
Logan	OK	083	OUN	Camp	TX	063	SHV
Love	OK	085	OUN	Cass	TX	067	SHV
McClain	OK	087	OUN	Cherokee	TX	073	SHV
Major	OK	093	OUN	Franklin	TX	159	SHV
Marshall	OK	095	OUN	Gregg	TX	183	SHV
Murray	OK	099	OUN	Harrison	TX	203	SHV
Noble	OK	103	OUN	Marion	TX	315	SHV
Oklahoma	OK	109	OUN	Morris	TX	343	SHV
Payne	OK	119	OUN	Nacogdoches	TX	347	SHV
Pontotoc	OK	123	OUN	Panola	TX	365	SHV
Pottawatomie	OK	125	OUN	Red River	TX	387	SHV
Roger Mills	OK	129	OUN	Rusk	TX	401	SHV
Seminole	OK	133	OUN	Sabine	TX	403	SHV
Stephens	OK	137	OUN	San Augustine	TX	405	SHV
Tillman	OK	141	OUN	Shelby	TX	419	SHV
Washita	OK	149	OUN	Smith	TX	423	SHV
Woods	OK	151	OUN	Titus	TX	449	SHV
Woodward	OK	153	OUN	Upshur	TX	459	SHV
Archer	TX	009	OUN	Wood	TX	499	SHV
Baylor	TX	023	OUN				
Clay	TX	077	OUN	Brown	TX	049	SJT
Foard	TX	155	OUN	Callahan	TX	059	SJT
Hardeman	TX	197	OUN	Coke	TX	081	SJT
Knox	TX	275	OUN	Coleman	TX	083	SJT
Wichita	TX	485	OUN	Concho	TX	095	SJT
Wilbarger	TX	487	OUN	Crockett	TX	105	SJT
				Fisher	TX	151	SJT
Columbia	AR	027	SHV	Haskell	TX	207	SJT
Hempstead	AR	057	SHV	Irion	TX	235	SJT
Howard	AR	061	SHV	Jones	TX	253	SJT
Lafayette	AR	073	SHV	Kimble	TX	267	SJT
Little River	AR	081	SHV	McCulloch	TX	307	SJT
Miller	AR	091	SHV	Mason	TX	319	SJT
Nevada	AR	099	SHV	Menard	TX	327	SJT
Sevier	AR	133	SHV	Nolan	TX	353	SJT
Union	AR	139	SHV	Runnels	TX	399	SJT
Bienville	LA	013	SHV	San Saba	TX	411	SJT
Bossier	LA	015	SHV	Schleicher	TX	413	SJT
Caddo	LA	017	SHV	Shackelford	TX	417	SJT
Caldwell	LA	021	SHV	Sterling	TX	431	SJT

Sutton	TX	435	SJT	Morovis	PR	101	SJU
Taylor	TX	441	SJT	Naguabo	PR	103	SJU
Throckmorton	TX	447	SJT	Naranjito	PR	105	SJU
Tom Green	TX	451	SJT	Orocovis	PR	107	SJU
				Patillas	PR	109	SJU
Adjuntas	PR	001	SJU	Penuelas	PR	111	SJU
Aguada	PR	003	SJU	Ponce	PR	113	SJU
Aguadilla	PR	005	SJU	Quebradillas	PR	115	SJU
Aguas Buenas	PR	007	SJU	Rincon	PR	117	SJU
Aibonito	PR	009	SJU	Rio Grande	PR	119	SJU
Anasco	PR	011	SJU	Sabana Grande	PR	121	SJU
Arecibo	PR	013	SJU	Salinas	PR	123	SJU
Arroyo	PR	015	SJU	San German	PR	125	SJU
Barceloneta	PR	017	SJU	San Juan	PR	127	SJU
Barranquitas	PR	019	SJU	San Lorenzo	PR	129	SJU
Bayamon	PR	021	SJU	San Sebastian	PR	131	SJU
Cabo Rojo	PR	023	SJU	Santa Isabel	PR	133	SJU
Caguas	PR	025	SJU	Toa Alta	PR	135	SJU
Camuy	PR	027	SJU	Toa Baja	PR	137	SJU
Canovanas	PR	029	SJU	Trujillo Alto	PR	139	SJU
Carolina	PR	031	SJU	Utuado	PR	141	SJU
Catano	PR	033	SJU	Vega Alta	PR	143	SJU
Cayey	PR	035	SJU	Vega Baja	PR	145	SJU
Ceiba	PR	037	SJU	Vieques	PR	147	SJU
Ciales	PR	039	SJU	Villalba	PR	149	SJU
Cidra	PR	041	SJU	Yabucoa	PR	151	SJU
Coamo	PR	043	SJU	Yauco	PR	153	SJU
Comerio	PR	045	SJU	Saint Croix	VI	010	SJU
Corozal	PR	047	SJU	Saint John	VI	020	SJU
Culebra	PR	049	SJU	Saint Thomas	VI	030	SJU
Dorado	PR	051	SJU				
Fajardo	PR	053	SJU	Coffee	AL	031	TAE
Florida	PR	054	SJU	Dale	AL	045	TAE
Guanica	PR	055	SJU	Geneva	AL	061	TAE
Guayama	PR	057	SJU	Henry	AL	067	TAE
Guayanilla	PR	059	SJU	Houston	AL	069	TAE
Guaynabo	PR	061	SJU	Bay	FL	005	TAE
Gurabo	PR	063	SJU	Calhoun	FL	013	TAE
Hatillo	PR	065	SJU	Dixie	FL	029	TAE
Hormigueros	PR	067	SJU	Franklin	FL	037	TAE
Humacao	PR	069	SJU	Gadsden	FL	039	TAE
Isabela	PR	071	SJU	Gulf	FL	045	TAE
Jayuya	PR	073	SJU	Holmes	FL	059	TAE
Juana Diaz	PR	075	SJU	Jackson	FL	063	TAE
Juncos	PR	077	SJU	Jefferson	FL	065	TAE
Lajas	PR	079	SJU	Lafayette	FL	067	TAE
Lares	PR	081	SJU	Leon	FL	073	TAE
Las Marias	PR	083	SJU	Liberty	FL	077	TAE
Las Piedras	PR	085	SJU	Madison	FL	079	TAE
Loiza	PR	087	SJU	Taylor	FL	123	TAE
Luquillo	PR	089	SJU	Wakulla	FL	129	TAE
Manati	PR	091	SJU	Walton	FL	131	TAE
Maricao	PR	093	SJU	Washington	FL	133	TAE
Maunabo	PR	095	SJU	Baker	GA	007	TAE
Mayaguez	PR	097	SJU	Ben Hill	GA	017	TAE
Moca	PR	099	SJU	Berrien	GA	019	TAE

Brooks	GA	027	TAE	Sarasota	FL	115	TBW
Calhoun	GA	037	TAE	Sumter	FL	119	TBW
Clay	GA	061	TAE				
Colquitt	GA	071	TAE	Benton	AR	007	TSA
Cook	GA	075	TAE	Carroll	AR	015	TSA
Decatur	GA	087	TAE	Crawford	AR	033	TSA
Dougherty	GA	095	TAE	Franklin	AR	047	TSA
Early	GA	099	TAE	Madison	AR	087	TSA
Grady	GA	131	TAE	Sebastian	AR	131	TSA
Irwin	GA	155	TAE	Washington	AR	143	TSA
Lanier	GA	173	TAE	Adair	OK	001	TSA
Lee	GA	177	TAE	Cherokee	OK	021	TSA
Lowndes	GA	185	TAE	Choctaw	OK	023	TSA
Miller	GA	201	TAE	Craig	OK	035	TSA
Mitchell	GA	205	TAE	Creek	OK	037	TSA
Quitman	GA	239	TAE	Delaware	OK	041	TSA
Randolph	GA	243	TAE	Haskell	OK	061	TSA
Seminole	GA	253	TAE	Latimer	OK	077	TSA
Terrell	GA	273	TAE	Le Flore	OK	079	TSA
Thomas	GA	275	TAE	McIntosh	OK	091	TSA
Tift	GA	277	TAE	Mayes	OK	097	TSA
Turner	GA	287	TAE	Muskogee	OK	101	TSA
Worth	GA	321	TAE	Nowata	OK	105	TSA
				Okfuskee	OK	107	TSA
Charlotte	FL	015	TBW	Okmulgee	OK	111	TSA
Citrus	FL	017	TBW	Osage	OK	113	TSA
DeSoto	FL	027	TBW	Ottawa	OK	115	TSA
Hardee	FL	049	TBW	Pawnee	OK	117	TSA
Hernando	FL	053	TBW	Pittsburg	OK	121	TSA
Highlands	FL	055	TBW	Pushmataha	OK	127	TSA
Hillsborough	FL	057	TBW	Rogers	OK	131	TSA
Lee	FL	071	TBW	Sequoyah	OK	135	TSA
Levy	FL	075	TBW	Tulsa	OK	143	TSA
Manatee	FL	081	TBW	Wagoner	OK	145	TSA
Pasco	FL	101	TBW	Washington	OK	147	TSA
Pinellas	FL	103	TBW				
Polk	FL	105	TBW				

5.1.4 Listing by Western Region WFOs

county name	state code	FIPS	primary wfo		ID		
Ada	ID	001	BOI	Washington	OR	087	BOI
Adams	ID	003	BOI	Baker	OR	001	BOI
Boise	ID	015	BOI	Harney	OR	025	BOI
Camas	ID	025	BOI	Malheur	OR	045	BOI
Canyon	ID	027	BOI				
Elmore	ID	039	BOI	Big Horn	MT	003	BYZ
Gem	ID	045	BOI	Carbon	MT	009	BYZ
Gooding	ID	047	BOI	Carte	MT	011	BYZ
Jerome	ID	053	BOI	Custer	MT	017	BYZ
Owyhee	ID	073	BOI	Fallon	MT	025	BYZ
Payette	ID	075	BOI	Golden Valley	MT	037	BYZ
Twin Falls	ID	083	BOI	Musselshell	MT	065	BYZ
Valley	ID	085	BOI	Park	MT	067	BYZ
				Powder River	MT	075	BYZ
				Rosebud	MT	087	BYZ

Stillwater	MT	095	BYZ	Jackson	OR	029	MFR
Sweet Grass	MT	097	BYZ	Josephine	OR	033	MFR
Treasure	MT	103	BYZ	Klamath	OR	035	MFR
Wheatland	MT	107	BYZ	Lake	OR	037	MFR
Yellowstone	MT	111	BYZ				
Sheridan	WY	033	BYZ	Clearwater	ID	035	MSO
				Idaho	ID	049	MSO
Del Norte	CA	015	EKA	Lemhi	ID	059	MSO
Humboldt	CA	023	EKA	Deer Lodge	MT	023	MSO
Mendocino	CA	045	EKA	Flathead	MT	029	MSO
Trinity	CA	105	EKA	Granite	MT	039	MSO
				Lake	MT	047	MSO
Apache	AZ	001	FGZ	Lincoln	MT	053	MSO
Coconino	AZ	005	FGZ	Mineral	MT	061	MSO
Gila	AZ	007	FGZ	Missoula	MT	063	MSO
Navajo	AZ	017	FGZ	Powell	MT	077	MSO
Yavapai	AZ	025	FGZ	Ravalli	MT	081	MSO
				Sanders	MT	089	MSO
				Silver Bow	MT	093	MSO
Daniels	MT	019	GGW				
Dawson	MT	021	GGW				
Garfield	MT	033	GGW	Alameda	CA	001	MTR
McCone	MT	055	GGW	Contra Costa	CA	013	MTR
Petroleum	MT	069	GGW	Marin	CA	041	MTR
Phillips	MT	071	GGW	Monterey	CA	053	MTR
Prairie	MT	079	GGW	Napa	CA	055	MTR
Richland	MT	083	GGW	San Benito	CA	069	MTR
Roosevelt	MT	085	GGW	San Francisco	CA	075	MTR
Sheridan	MT	091	GGW	San Mateo	CA	081	MTR
Valley	MT	105	GGW	Santa Clara	CA	085	MTR
Wibaux	MT	109	GGW	Santa Cruz	CA	087	MTR
				Sonoma	CA	097	MTR
Fresno	CA	019	HNX				
Kern	CA	029	HNX	Benewah	ID	009	OTX
Kings	CA	031	HNX	Bonner	ID	017	OTX
Madera	CA	039	HNX	Boundary	ID	021	OTX
Mariposa	CA	043	HNX	Kootenai	ID	055	OTX
Merced	CA	047	HNX	Latah	ID	057	OTX
Tulare	CA	107	HNX	Lewis	ID	061	OTX
Tuolumne	CA	109	HNX	Nez Perce	ID	069	OTX
				Shoshone	ID	079	OTX
Elko	NV	007	LKN	Adams	WA	001	OTX
Eureka	NV	011	LKN	Asotin	WA	003	OTX
Humboldt	NV	013	LKN	Chelan	WA	007	OTX
Lander	NV	015	LKN	Douglas	WA	017	OTX
White Pine	NV	033	LKN	Ferry	WA	019	OTX
				Garfield	WA	023	OTX
Los Angeles	CA	037	LOX	Grant	WA	025	OTX
San Luis Obispo	CA	079	LOX	Lincoln	WA	043	OTX
Santa Barbara	CA	083	LOX	Okanogan	WA	047	OTX
Ventura	CA	111	LOX	Pend Oreille	WA	051	OTX
				Spokane	WA	063	OTX
Modoc	CA	049	MFR	Stevens	WA	065	OTX
Siskiyou	CA	093	MFR	Whitman	WA	075	OTX
Coos	OR	011	MFR				
Curry	OR	015	MFR	Crook	OR	013	PDT
Douglas	OR	019	MFR	Deschutes	OR	017	PDT

Gilliam	OR	021	PDT	La Paz	AZ	012	PSR
Grant	OR	023	PDT	Maricopa	AZ	013	PSR
Jefferson	OR	031	PDT	Pinal	AZ	021	PSR
Morrow	OR	049	PDT	Yuma	AZ	027	PSR
Sherman	OR	055	PDT	Imperial	CA	025	PSR
Umatilla	OR	059	PDT	Riverside	CA	065	PSR
Union	OR	061	PDT				
Wallowa	OR	063	PDT	Alpine	CA	003	REV
Wasco	OR	065	PDT	El Dorado	CA	017	REV
Wheeler	OR	069	PDT	Lassen	CA	035	REV
Benton	WA	005	PDT	Mono	CA	051	REV
Columbia	WA	013	PDT	Nevada	CA	057	REV
Franklin	WA	021	PDT	Placer	CA	061	REV
Kittitas	WA	037	PDT	Plumas	CA	063	REV
Klickitat	WA	039	PDT	Sierra	CA	091	REV
Walla Walla	WA	071	PDT	Churchill	NV	001	REV
Yakima	WA	077	PDT	Douglas	NV	005	REV
				Lyon	NV	019	REV
Bannock	ID	005	PIH	Mineral	NV	021	REV
Bingham	ID	011	PIH	Pershing	NV	027	REV
Blaine	ID	013	PIH	Storey	NV	029	REV
Bonneville	ID	019	PIH	Washoe	NV	031	REV
Butte	ID	023	PIH	Carson City	NV	510	REV
Caribou	ID	029	PIH				
Cassial	D	031	PIH	Clallam	WA	009	SEW
Clark	ID	033	PIH	Grays Harbor	WA	027	SEW
Custer	ID	037	PIH	Island	WA	029	SEW
Fremont	ID	043	PIH	Jefferson	WA	031	SEW
Jefferson	ID	051	PIH	King	WA	033	SEW
Lincoln	ID	063	PIH	Kitsap	WA	035	SEW
Madison	ID	065	PIH	Lewis	WA	041	SEW
Minidoka	ID	067	PIH	Mason	WA	045	SEW
Oneida	ID	071	PIH	Pierce	WA	053	SEW
Power	ID	077	PIH	San Juan	WA	055	SEW
Teton	ID	081	PIH	Skagit	WA	057	SEW
				Snohomish	WA	061	SEW
Benton	OR	003	PQR	Thurston	WA	067	SEW
Clackamas	OR	005	PQR	Whatcom	WA	073	SEW
Clatsop	OR	007	PQR				
Columbia	OR	009	PQR	Orange	CA	059	SGX
Hood River	OR	027	PQR	San Bernardino	CA	071	SGX
Lane	OR	039	PQR	San Diego	CA	073	SGX
Lincoln	OR	041	PQR				
Linn	OR	043	PQR	Bear Lake	ID	007	SLC
Marion	OR	047	PQR	Franklin	ID	041	SLC
Multnomah	OR	051	PQR	Beaver	UT	001	SLC
Polk	OR	053	PQR	Box Elder	UT	003	SLC
Tillamook	OR	057	PQR	Cache	UT	005	SLC
Washington	OR	067	PQR	Carbon	UT	007	SLC
Yamhill	OR	071	PQR	Davis	UT	011	SLC
Clark	WA	011	PQR	Duchesne	UT	013	SLC
Cowlitz	WA	015	PQR	Emery	UT	015	SLC
Pacific	WA	049	PQR	Garfield	UT	017	SLC
Skamania	WA	059	PQR	Iron	UT	021	SLC
Wahkiakum	WA	069	PQR	Juab	UT	023	SLC
				Kane	UT	025	SLC

Millard	UT	027	SLC	Beaverhead	MT	001	TFX
Morgan	UT	029	SLC	Blaine	MT	005	TFX
Piute	UT	031	SLC	Broadwater	MT	007	TFX
Rich	UT	033	SLC	Cascade	MT	013	TFX
Salt Lake	UT	035	SLC	Chouteau	MT	015	TFX
Sanpete	UT	039	SLC	Fergus	MT	027	TFX
Sevier	UT	041	SLC	Gallatin	MT	031	TFX
Summit	UT	043	SLC	Glacier	MT	035	TFX
Tooele	UT	045	SLC	Hill	MT	041	TFX
Utah	UT	049	SLC	Jefferson	MT	043	TFX
Wasatch	UT	051	SLC	Judith Basin	MT	045	TFX
Washington	UT	053	SLC	Lewis and Clark	MT	049	TFX
Wayne	UT	055	SLC	Liberty	MT	051	TFX
Weber	UT	057	SLC	Madison	MT	057	TFX
Uinta	WY	041	SLC	Meagher	MT	059	TFX
				Pondera	MT	073	TFX
Amador	CA	005	STO	Teton	MT	099	TFX
Butte	CA	007	STO	Toole	MT	101	TFX
Calaveras	CA	009	STO				
Colusa	CA	011	STO	Cochise	AZ	003	TWC
Glenn	CA	021	STO	Graham	AZ	009	TWC
Lake	CA	033	STO	Greenlee	AZ	011	TWC
Sacramento	CA	067	STO	Pima	AZ	019	TWC
San Joaquin	CA	077	STO	Santa Cruz	AZ	023	TWC
Shasta	CA	089	STO				
Solano	CA	095	STO	Mohave	AZ	015	VEF
Stanislaus	CA	099	STO	Inyo	CA	027	VEF
Sutter	CA	101	STO	Clark	NV	003	VEF
Tehama	CA	103	STO	Esmeralda	NV	009	VEF
Yolo	CA	113	STO	Lincoln	NV	017	VEF
Yuba	CA	115	STO	Nye	NV	023	VEF

5.1.5 Listing by Alaskan Region WFOs

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

5.1.6 Listing by Pacific Region WFOs

county name	state code	FIPS	primary wfo	Maui Midway Islands	HI UM	009 300	HFO 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 name	state code	FIPS	primary wfo	XXX	NJ	XXX	XXX
XXX	AL	XXX	XXX	XXX	NM	XXX	XXX
XXX	AK	XXX	XXX	XXX	NY	XXX	XXX
XXX	AZ	XXX	XXX	XXX	NC	XXX	XXX
XXX	AR	XXX	XXX	XXX	ND	XXX	XXX
XXX	CA	XXX	XXX	XXX	OH	XXX	XXX
XXX	CO	XXX	XXX	XXX	OK	XXX	XXX
XXX	CT	XXX	XXX	XXX	OR	XXX	XXX
XXX	DC	XXX	XXX	XXX	PA	XXX	XXX
XXX	DE	XXX	XXX	XXX	RI	XXX	XXX
XXX	FL	XXX	XXX	XXX	SC	XXX	XXX
XXX	GA	XXX	XXX	XXX	SD	XXX	XXX
XXX	HI	XXX	XXX	XXX	TN	XXX	XXX
XXX	ID	XXX	XXX	XXX	TX	XXX	XXX
XXX	IL	XXX	XXX	XXX	UT	XXX	XXX
XXX	IN	XXX	XXX	XXX	VT	XXX	XXX
XXX	IA	XXX	XXX	XXX	VA	XXX	XXX
XXX	KS	XXX	XXX	XXX	WA	XXX	XXX
XXX	KY	XXX	XXX	XXX	WV	XXX	XXX
XXX	LA	XXX	XXX	XXX	WI	XXX	XXX
XXX	ME	XXX	XXX	XXX	WY	XXX	XXX
XXX	MD	XXX	XXX	XXX	PR	XXX	XXX
XXX	MA	XXX	XXX	XXX	VI	XXX	XXX
XXX	MI	XXX	XXX	XXX	AS	XXX	XXX
XXX	MN	XXX	XXX	XXX	FM	XXX	XXX
XXX	MS	XXX	XXX	XXX	GU	XXX	XXX
XXX	MO	XXX	XXX	XXX	MH	XXX	XXX
XXX	MT	XXX	XXX	XXX	MP	XXX	XXX
XXX	NE	XXX	XXX	XXX	PW	XXX	XXX
XXX	NV	XXX	XXX	XXX	UM	XXX	XXX
XXX	NH	XXX	XXX				

5.2 Canada

Default entries for counties table only.

county name	state code	FIPS	primary wfo	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.

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

acronym	description	location	Identifier
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	Middle 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	FFC	Atlanta, GA
ABR	Aberdeen, SD	FGF	Eastern North Dakota
AFC	Anchorage, AK	FGZ	Flagstaff, AZ
AFG	Fairbanks, AK	FSD	Sioux Falls, SD
AJK	Juneau, AK	FWD	Dallas/Fort Worth, TX
AKQ	Wakefield, VA	GGW	Glasgow, MT
ALY	Albany, NY	GID	Hastings, NE
AMA	Amarillo, TX	GJT	Grand Junction, CO
APX	North Central Lower Michigan	GLD	Goodland, KS
ARX	La Cross, WI	GRB	Green Bay, WI
BGM	Binghamton, NY	GRR	Grand Rapids, MI
BIS	Bismarck, ND	GSP	Greenville,/Spartanburg, SC
BMX	Birmingham, AL	GUM	Guam
BOI	Boise, ID	GYX	Portland, ME
BOU	Denver/Boulder, CO	HFO	Honolulu, HI
BOX	Boston, MA	HGX	Houston/Galveston, TX
BRO	Brownsville, TX	HNX	San Josquin Valley, CA
BTV	Burlington, VT	HUN	Huntsville, AL
BUF	Buffalo, NY	ICT	Wichita, KS
BYZ	Billings, MT	ILM	Wilmington, NC
CAE	Columbia, SC	ILN	Cincinnati, OH
CAR	Caribou, ME	ILX	Central Illinois
CHS	Charleston, SC	IND	Indianapolis, IN
CLE	Cleveland, OH	IWX	Northern Indiana, IN
CRP	Corpus Christi, TX	JAN	Jackson, MS
CTP	Central Pennsylvania	JAX	Jacksonville, FL
CYS	Cheyenne, WY	JKL	Jackson, KY
DDC	Dodge City, KS	LBF	North Platte, NE
DLH	Duluth, MN	LCH	Lake Charles, LA
DMX	Des Moines, IA	LIX	New Orleans/Baton Rouge, LA
DTX	Detroit, MI	LKN	Elko, NV
DVN	Auad Cities, IA	LMK	Louisville, KY
EAX	Kansas City/Pleasant Hill, MO	LOT	Chicago, IL
EKA	Eureka, CA	LOX	Los Angeles, CA
EPZ	El Paso, TX	LSX	St. Louis, MO
EWX	Austin/San Antonio, TX	LUB	Lubbock, TX
EYW	Key West, FL	LWX	Baltimore, MD/Washington D.C.
		LZK	Little Rock, AR

MAF	Midland/Odess, TX	PUB	Pueblo, CO
MEG	Memphis, TN	RAH	Raleigh/Durham, NC
MFL	Miami, FL	REV	Reno, NV
MFR	Medford, OR	RIW	Riverton, WY
MHX	Morehead City, NC	RLX	Charleston, WV
MKX	Milwaukee, WI	RNK	Roanoke, VA
MLB	Melbourne, FL	SEW	Seattle/Tacoma, WA
MOB	Mobile, AL	SGF	Springfield, MO
MPX	Minneapolis, MN	SGX	San Diego, CA
MQT	Marquette, MI	SHV	Shreveport, LA
MRX	Knoxville/Tri Cities, TN	SJT	San Angelo, TX
MSO	Missoula, MT	SJU	San Juan, PR
MTR	San Francisco Bay Area, CA	SLC	Salt Lake City, UT
OAX	Omaha, NE	STO	Sacramento, CA
OHX	Nashville, TN	TAE	Tallahassee, FL
OKX	New York City/Upton, NY	TBW	Tampa Bay Area, FL
OTX	Spokane, WA	TFX	Great Falls, MT
OUN	Oklahoma City, OK	TOP	Topeka, KS
PAH	Paducah, KY	TSA	Tulsa, OK
PBZ	Pittsburgh, PA	TWC	Tucson, AZ
PDT	Pendleton, OR	UNR	Rapid City, SD
PHI	Philadelphia/Mt Holly, NJ	VEF	Las Vegas, NV
PIH	Pocatello/Idaho Falls, ID	XXX	not defined
PQR	Portland, OR		
PSR	Phoenix, AZ		

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 PrecipInd 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	2001	D	1 Day
			2007	W	1 Week
0	I	Instantaneous	2015	N	Mid Month,1st - 15th
1	U	1 Minute	3001	M	1 Month
15	C	15 Minutes	4001	Y	1 Year
30	J	30 Minutes	5000	Z	Unspecified
1001	H	1 Hour	5001	S	Seasonal
1002	B	2 Hour	5002	R	Period of Record
1003	T	3 Hour	9999	V	Variable
1004	F	4 Hour	5004	P	Total Since 7 AM
1006	Q	6 Hour	5005	X	Unknown
1008	A	8 Hour			
1012	K	12 Hour			
1018	L	18 Hour			

8.4 shefts

type	source	description	C	G	Contingency G
C		Contingency	C	H	Contingency H
C	1	Contingency 1	C	I	Contingency I
C	2	Contingency 2	C	J	Contingency J
C	3	Contingency 3	C	K	Contingency K
C	4	Contingency 4	C	L	Contingency L
C	5	Contingency 5	C	M	Contingency M
C	6	Contingency 6	C	N	Contingency N
C	7	Contingency 7	C	O	Contingency O
C	8	Contingency 8	C	P	Contingency P
C	9	Contingency 9	C	Q	Contingency Q
C	F	Contingency for FFG	C	R	Contingency R
C	A	Contingency A	C	S	Contingency S
C	B	Contingency B	C	T	Contingency T
C	C	Contingency C	C	U	Contingency U
C	D	Contingency D	C	V	Contingency V
C	E	Contingency E	C	W	Contingency W

C	X	Contingency X	P	X	Process 23
C	Y	Contingency Y	P	Y	Process 24
C	Z	Nonspecific contingency	P	Z	Nonspec Processed
F		Forecast			
F	A	Adjusted Model 1	R		Reading
F	B	Adjusted Model 2	R	2	2nd SENSOR
F	C	Adjusted Model 3	R	3	3rd SENSOR
F	D	Adjusted Model 4	R	4	4th SENSOR
F	E	External Public Fcst	R	5	5th SENSOR
F	F	Forecast uses QPF	R	6	6th SENSOR
F	G	Reservoir Release Fcst	R	7	7th SENSOR
F	M	Manual Method 1	R	8	8th SENSOR
F	N	Manual Method 2	R	9	9th SENSOR
F	P	Manual Method 3	R	A	Best Quality
F	Q	Manual Method 4	R	B	2nd Best Quality
F	U	Unadjusted Model 1	R	C	3rd Best Quality
F	V	Unadjusted Model 2	R	D	4th Best Quality
F	W	Unadjusted Model 3	R	F	Airborne
F	X	Unadjusted Model 4	R	G	GOES
F	Z	Nonspecific Forecast	R	M	Meteor Burst
			R	P	Phone ASCII
H		Reserved for Historical	R	R	Radio 1
			R	S	Radio 2
M		Model	R	T	Telemark/BDT
M	S	SAC-SMA	R	V	Visual/Manual 1
M	A	Cont. API	R	W	Visual/Manual 2
M	K	KC-API	R	X	Visual/Manual 3
M	C	Cin-API	R	Z	Nonspecific Observed
M	H	H-API			
M	T	H-API	1	F	Process L1, airborne
M	W	Snow-17	2	F	Process L2, airborne
			3	F	Process L3, airborne
P		Processed	4	F	Process L4, airborne
P	A	Process 1	5	F	Process L5, airborne
P	B	Process 2	6	F	Process L6, airborne
P	C	Process 3	7	F	Process L7, airborne
P	D	Process 4	8	F	Process L8, airborne
P	M	Processed Mean Areal	9	F	Process L9, airborne
P	E	Process 5	1	G	Process L1, GOES
P	F	Process 6	2	G	Process L2, GOES
P	G	Process 7	3	G	Process L3, GOES
P	H	Process 8	4	G	Process L4, GOES
P	I	Process 9	5	G	Process L5, GOES
P	J	Process 10	6	G	Process L6, GOES
P	K	Process 11	7	G	Process L7, GOES
P	L	Process 12	8	G	Process L8, GOES
P	N	Process 13	9	G	Process L9, GOES
P	O	Process 14	1	M	Process L1, Meteor
P	P	Process 15	2	M	Process L2, Meteor
P	Q	Process 16	3	M	Process L3, Meteor
P	R	Process 17	4	M	Process L4, Meteor
P	S	Process 18	5	M	Process L5, Meteor
P	T	Process 19	6	M	Process L6, Meteor
P	U	Process 20	7	M	Process L7, Meteor
P	V	Process 21	8	M	Process L8, Meteor
P	W	Process 22	9	M	Process L9, Meteor

1	P	Process L1, Phone	2	V	Process L2, Visual 1
2	P	Process L2, Phone	3	V	Process L3, Visual 1
3	P	Process L3, Phone	4	V	Process L4, Visual 1
4	P	Process L4, Phone	5	V	Process L5, Visual 1
5	P	Process L5, Phone	6	V	Process L6, Visual 1
6	P	Process L6, Phone	7	V	Process L7, Visual 1
7	P	Process L7, Phone	8	V	Process L8, Visual 1
8	P	Process L8, Phone	9	V	Process L9, Visual 1
9	P	Process L9, Phone	1	W	Process L1, Visual 2
1	R	Process L1, Radio 1	2	W	Process L2, Visual 2
2	R	Process L2, Radio 1	3	W	Process L3, Visual 2
3	R	Process L3, Radio 1	4	W	Process L4, Visual 2
4	R	Process L4, Radio 1	5	W	Process L5, Visual 2
5	R	Process L5, Radio 1	6	W	Process L6, Visual 2
6	R	Process L6, Radio 1	7	W	Process L7, Visual 2
7	R	Process L7, Radio 1	8	W	Process L8, Visual 2
8	R	Process L8, Radio 1	9	W	Process L9, Visual 2
9	R	Process L9, Radio 1	1	X	Process L1, Visual 3
1	S	Process L1, Radio 2	2	X	Process L2, Visual 3
2	S	Process L2, Radio 2	3	X	Process L3, Visual 3
3	S	Process L3, Radio 2	4	X	Process L4, Visual 3
4	S	Process L4, Radio 2	5	X	Process L5, Visual 3
5	S	Process L5, Radio 2	6	X	Process L6, Visual 3
6	S	Process L6, Radio 2	7	X	Process L7, Visual 3
7	S	Process L7, Radio 2	8	X	Process L8, Visual 3
8	S	Process L8, Radio 2	9	X	Process L9, Visual 3
9	S	Process L9, Radio 2	1	Z	Process L1, Nonspec
1	T	Process L1, Telemark	2	Z	Process L2, Nonspec
2	T	Process L2, Telemark	3	Z	Process L3, Nonspec
3	T	Process L3, Telemark	4	Z	Process L4, Nonspec
4	T	Process L4, Telemark	5	Z	Process L5, Nonspec
5	T	Process L5, Telemark	6	Z	Process L6, Nonspec
6	T	Process L6, Telemark	7	Z	Process L7, Nonspec
7	T	Process L7, Telemark	8	Z	Process L8, Nonspec
8	T	Process L8, Telemark	9	Z	Process L9, Nonspec
9	T	Process L9, Telemark			
1	V	Process L1, Visual 1			

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

1 ST char	2 nd char	code	
<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 ground completely
G	S		9	Extremely dry with cracks
G	S		10	Ground predominantly covered by ice
G	S		11	Compact or wet snow covering less than one-half of the ground
G	S		12	Compact or wet snow covering at least one-half of the ground
G	S		13	Even layer of compact or wet snow covering ground completely
G	S		14	Uneven layer of compact or wet snow covering ground completely
G	S		15	Loose dry snow covering less than one-half of the ground
G	S		16	Loose dry snow covering at least one-half of the ground
G	S		17	Even layer of loose, dry snow covering ground completely
G	S		18	Uneven layer of loose, dry snow covering ground completely
G	S		19	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 star like 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 initializes 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>
H G	I	0	-1.0	150.0
H P	I	0	400.0	15000.0
H T	I	0	400.0	15000.0
P P	U	1	0.0	2.0
P P	C	15	0.0	2.0
P P	J	30	0.0	4.0
P P	H	1001	0.0	6.0
P P	B	1002	0.0	20.0
P P	T	1003	0.0	20.0
P P	F	1004	0.0	20.0
P P	Q	1006	0.0	20.0
P P	A	1008	0.0	20.0
P P	K	1012	0.0	20.0
P P	L	1018	0.0	20.0
P P	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

Additions/Corrections to Selected Reference Tables

Selected reference tables in the IHFS database recently had standards and guidelines established. When the data in some of the RFC Archive database tables were in common with the IHFS database tables, the same standards and guidelines were applied. The IHFS database standards were recently implemented at all WFOs and RFCs over the past few months (late 2002 thru early 2003) and as this implementation occurred some missing information and corrections were identified and changes were made accordingly to these standards. Changes that impact selected reference tables in the RFC Archive database were identified and are listed below.

Each RFC will need to make these changes accordingly prior to running the adbnit suite in order to reduce the errors that may occur when the location table is loaded.

WFO HSA Table

add the following:

wfo
HUN
UNK

Country Table

add the following:

<u>country</u>	<u>countryfips</u>
Russia	RU

State Table

add the following:

<u>state</u>	<u>countryfips</u>	<u>name</u>	<u>ncdc</u>	<u>statefips</u>
XX	RU		XX	XX

Counties Table

add the following:

<u>county</u>	<u>state</u>	<u>countryfips</u>	<u>countyfips</u>	<u>wfo</u>	<u>zon</u>
Unk	XX	RU	Unk	Unk	Unk

change county name as following:

City of Roanoke	VA	US	770	RNK
City of Bedford	VA	US	515	RNK
City of Buena Vista	VA	US	530	RNK
City of Clifton Forge	VA	US	560	RNK
City of Covington	VA	US	580	RNK
City of Danville	VA	US	590	RNK
City of Galax	VA	US	640	RNK
City of Lexington	VA	US	678	RNK
City of Lynchburg	VA	US	680	RNK
City of Martinsville	VA	US	690	RNK
Add: City of Radford	VA	US	750	RNK
Add: City of Salem	VA	US	775	RNK

change WFO associated with the county as follows:

Colbert	AL	US	033	HUN
Cullman	AL	US	043	HUN
Dekalb	AL	US	049	HUN
Franklin	AL	US	059	HUN
Jackson	AL	US	071	HUN
Lauderdale	AL	US	077	HUN
Lawrence	AL	US	079	HUN
Limestone	AL	US	083	HUN
Madison	AL	US	089	HUN
Marshall	AL	US	095	HUN
Morgan	AL	US	103	HUN