

LatD	LatM	LatS	NS	LonD	LonM	LonS	EW	City	State
41	5	59	N	80	39	0	W	Youngstown	OH
42	52	48	N	97	23	23	W	Yankton	SD
46	35	59	N	120	30	36	W	Yakima	WA
42	16	12	N	71	48	0	W	Worcester	MA
43	37	48	N	89	46	11	W	Wisconsin Dells	WI
36	5	59	N	80	15	0	W	Winston-Salem	NC
49	52	48	N	97	9	0	W	Winnipeg	MB
39	11	23	N	78	9	36	W	Winchester	VA
34	14	24	N	77	55	11	W	Wilmington	NC
39	45	0	N	75	33	0	W	Wilmington	DE
48	9	0	N	103	37	12	W	Williston	ND
41	15	0	N	77	0	0	W	Williamsport	PA
37	40	48	N	82	16	47	W	Williamson	WV
33	54	0	N	98	29	23	W	Wichita Falls	TX
37	41	23	N	97	20	23	W	Wichita	KS
40	4	11	N	80	43	12	W	Wheeling	WV
26	43	11	N	80	3	0	W	West Palm Beach	FL
47	25	11	N	120	19	11	W	Wenatchee	WA
41	25	11	N	122	23	23	W	Weed	CA
31	13	11	N	82	20	59	W	Waycross	GA
44	57	35	N	89	38	23	W	Wausau	WI
42	21	36	N	87	49	48	W	Waukegan	IL
44	54	0	N	97	6	36	W	Watertown	SD
43	58	47	N	75	55	11	W	Watertown	NY
42	30	0	N	92	20	23	W	Waterloo	IA
41	32	59	N	73	3	0	W	Waterbury	CT
38	53	23	N	77	1	47	W	Washington	DC
41	50	59	N	79	8	23	W	Warren	PA
46	4	11	N	118	19	48	W	Walla Walla	WA
31	32	59	N	97	8	23	W	Waco	TX
38	40	48	N	87	31	47	W	Vincennes	IN
28	48	35	N	97	0	36	W	Victoria	TX
32	20	59	N	90	52	47	W	Vicksburg	MS

49	16	12	N	123	7	12	W	Vancouver	BC
46	55	11	N	98	0	36	W	Valley City	ND
30	49	47	N	83	16	47	W	Valdosta	GA
43	6	36	N	75	13	48	W	Utica	NY
39	54	0	N	79	43	48	W	Uniontown	PA
32	20	59	N	95	18	0	W	Tyler	TX
42	33	36	N	114	28	12	W	Twin Falls	ID
33	12	35	N	87	34	11	W	Tuscaloosa	AL
34	15	35	N	88	42	35	W	Tupelo	MS
36	9	35	N	95	54	36	W	Tulsa	OK
32	13	12	N	110	58	12	W	Tucson	AZ
37	10	11	N	104	30	36	W	Trinidad	CO
40	13	47	N	74	46	11	W	Trenton	NJ
44	45	35	N	85	37	47	W	Traverse City	MI
43	39	0	N	79	22	47	W	Toronto	ON
39	2	59	N	95	40	11	W	Topeka	KS
41	39	0	N	83	32	24	W	Toledo	OH
33	25	48	N	94	3	0	W	Texarkana	TX
39	28	12	N	87	24	36	W	Terre Haute	IN
27	57	0	N	82	26	59	W	Tampa	FL
30	27	0	N	84	16	47	W	Tallahassee	FL
47	14	24	N	122	25	48	W	Tacoma	WA
43	2	59	N	76	9	0	W	Syracuse	NY
32	35	59	N	82	20	23	W	Swainsboro	GA
33	55	11	N	80	20	59	W	Sumter	SC
40	59	24	N	75	11	24	W	Stroudsburg	PA
37	57	35	N	121	17	24	W	Stockton	CA
44	31	12	N	89	34	11	W	Stevens Point	WI
40	21	36	N	80	37	12	W	Steubenville	OH
40	37	11	N	103	13	12	W	Sterling	CO
38	9	0	N	79	4	11	W	Staunton	VA
39	55	11	N	83	48	35	W	Springfield	OH
37	13	12	N	93	17	24	W	Springfield	MO
42	5	59	N	72	35	23	W	Springfield	MA

39	47	59	N	89	39	0	W	Springfield	IL
47	40	11	N	117	24	36	W	Spokane	WA
41	40	48	N	86	15	0	W	South Bend	IN
43	32	24	N	96	43	48	W	Sioux Falls	SD
42	29	24	N	96	23	23	W	Sioux City	IA
32	30	35	N	93	45	0	W	Shreveport	LA
33	38	23	N	96	36	36	W	Sherman	TX
44	47	59	N	106	57	35	W	Sheridan	WY
35	13	47	N	96	40	48	W	Seminole	OK
32	25	11	N	87	1	11	W	Selma	AL
38	42	35	N	93	13	48	W	Sedalia	MO
47	35	59	N	122	19	48	W	Seattle	WA
41	24	35	N	75	40	11	W	Scranton	PA
41	52	11	N	103	39	36	W	Scottsbluff	NB
42	49	11	N	73	56	59	W	Schenectady	NY
32	4	48	N	81	5	23	W	Savannah	GA
46	29	24	N	84	20	59	W	Sault Sainte Marie	MI
27	20	24	N	82	31	47	W	Sarasota	FL
38	26	23	N	122	43	12	W	Santa Rosa	CA
35	40	48	N	105	56	59	W	Santa Fe	NM
34	25	11	N	119	41	59	W	Santa Barbara	CA
33	45	35	N	117	52	12	W	Santa Ana	CA
37	20	24	N	121	52	47	W	San Jose	CA
37	46	47	N	122	25	11	W	San Francisco	CA
41	27	0	N	82	42	35	W	Sandusky	OH
32	42	35	N	117	9	0	W	San Diego	CA
34	6	36	N	117	18	35	W	San Bernardino	CA
29	25	12	N	98	30	0	W	San Antonio	TX
31	27	35	N	100	26	24	W	San Angelo	TX
40	45	35	N	111	52	47	W	Salt Lake City	UT
38	22	11	N	75	35	59	W	Salisbury	MD
36	40	11	N	121	39	0	W	Salinas	CA
38	50	24	N	97	36	36	W	Salina	KS
38	31	47	N	106	0	0	W	Salida	CO

44	56	23	N	123	1	47	W	Salem	OR
44	57	0	N	93	5	59	W	Saint Paul	MN
38	37	11	N	90	11	24	W	Saint Louis	MO
39	46	12	N	94	50	23	W	Saint Joseph	MO
42	5	59	N	86	28	48	W	Saint Joseph	MI
44	25	11	N	72	1	11	W	Saint Johnsbury	VT
45	34	11	N	94	10	11	W	Saint Cloud	MN
29	53	23	N	81	19	11	W	Saint Augustine	FL
43	25	48	N	83	56	24	W	Saginaw	MI
38	35	24	N	121	29	23	W	Sacramento	CA
43	36	36	N	72	58	12	W	Rutland	VT
33	24	0	N	104	31	47	W	Roswell	NM
35	56	23	N	77	48	0	W	Rocky Mount	NC
41	35	24	N	109	13	48	W	Rock Springs	WY
42	16	12	N	89	5	59	W	Rockford	IL
43	9	35	N	77	36	36	W	Rochester	NY
44	1	12	N	92	27	35	W	Rochester	MN
37	16	12	N	79	56	24	W	Roanoke	VA
37	32	24	N	77	26	59	W	Richmond	VA
39	49	48	N	84	53	23	W	Richmond	IN
38	46	12	N	112	5	23	W	Richfield	UT
45	38	23	N	89	25	11	W	Rhineland	WI
39	31	12	N	119	48	35	W	Reno	NV
50	25	11	N	104	39	0	W	Regina	SA
40	10	48	N	122	14	23	W	Red Bluff	CA
40	19	48	N	75	55	48	W	Reading	PA
41	9	35	N	81	14	23	W	Ravenna	OH