

IX. Wind, Snow, Seismic and Rain Data by U.S. County

9.1 Introduction

In this section, climatological data are tabulated by county. The methods used to determine each of the values are given below. Using a single point to represent an entire county may produce substantial errors for counties with large areas or closely spaced load contours. For example, in Alaska the large political divisions are not conducive to assigning a single value. The values given should only be used as a relative guide and the map should be referred to for the appropriate design parameters. Snow loads in some areas should be used with caution since local conditions may be more severe than indicated here. Also, some regions have very closely spaced contours that could introduce errors.

Seismic spectral response values were obtained from county-by-county data provided by BSSC that were compiled from the 1997 standard. Values were provided by zip code, but were taken at the county seat in order to obtain countywide values for the purpose of this compilation. For areas of high seismic activity, this provides a very crude location measure and may yield significantly unconservative ground motion values. The recommended approach, in areas of high seismicity, is to use the CD provided with the IBC. Additionally, inputting the latitude and longitude of the site yields the most accurate spectral response values. The latitude and longitude can be readily obtained from the site street address from a source such as www.mapblast.com.

Ground snow loads are based on ASCE 7-98 Figure 7-1 (Table 7-1 for Alaska) and are also reproduced in IBC 2000 as Figure 1608.2 (Table 1608.2 for Alaska). Wind velocities are based on ASCE 7-98 Figure 6-1 that is also reproduced in IBC 2000 as Figure 1609. Note that counties that have all or part of their boundary in a "Special Wind Region" are noted with an asterisk after the basic wind speed. Special consideration should be given to these regions where records or experience indicate that wind speeds are higher than those reflected in the ASCE or IBC figure or the county listing. For wind velocity, values were determined by linearly interpolating between the two contours on either side of a county using the approximate geographic center of the county. Ground snow load was not interpolated, that is, the value of the snow load at the point chosen for the county was used.

Counties that may have areas that fall in an IBC designated wind borne debris region are noted with the basic wind speed in bold type. These counties may include hurricane-prone regions which are within one mile of the coastal mean high water line and where the basic wind speed is 110 mph or greater; or where the basic wind speed is 120 mph or greater; or Hawaii. The design wind speeds used in these counties, that are generally in areas of closely spaced contours along the coastline, should also be closely evaluated based on where the actual building is located on the ASCE or IBC figures.

Rainfall intensities were determined somewhat differently. The contour maps found in the Weather Bureau Technical Paper No. 40 for thirty-minute duration storms with return periods of five and twenty-five years were used. The values of the contours were adjusted to reflect 5-minute duration by using the factor found in the paper. New contours with whole number values were drawn and each county was assigned the value of the next largest contour.

LEGEND

S : Ground snow load for 50-yr. mean recurrence interval in pounds per square foot (psf).

() Numbers in parentheses represent the upper elevation limit in feet for the ground snow load value given. Refer to ASCE 7-98 Figure 7-1 or IBC 2000 Figure 1608.2 for other ground snow loads that may be available for higher elevations.

CS Indicates site-specific case study is required.

W : 3-second gust wind speed for 50-yr. mean recurrence interval in miles per hour (mph).

* Indicates part of the county is in a “Special Wind Region” and may require special consideration or local knowledge of actual wind speeds.

Basic wind speeds in **bold type** indicate that the county may have areas that are designated as wind borne debris regions.

S_s: 0.2 Second spectral response acceleration (5% critical damping). 2% probability of exceedance in 50 years.

S₁: 1.0 Second spectral response acceleration (5% critical damping). 2% probability of exceedance in 50 years.

I1 : Rainfall Intensity (inches per hour).
5-minute duration
5-year recurrence
— Indicates rainfall intensity is undefined.

I2 : Rainfall Intensity (inches per hour).
5-minute duration
25-year recurrence
— Indicates rainfall intensity is undefined.

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
ALABAMA							—	105	—	—	—	—	Anchorage
5	96	17.50	8.50	8	11	Autauga	—	113	—	—	—	—	Bethel
0	130	12.50	6.20	10	12	Baldwin	—	123	—	—	—	—	Bristol Bay
5	98	13.50	7.60	8	11	Barbour	—	116	—	—	—	—	Dillingham
5	92	23.40	9.60	8	11	Bibb	—	90	—	—	—	—	Fairbanks North Star
10	90	32.90	12.20	7	10	Blount	—	100	—	—	—	—	Haines
5	98	15.00	7.90	8	11	Bullock	—	110	—	—	—	—	Juneau
5	104	13.80	7.40	9	11	Butler	—	102	—	—	—	—	Kenai Peninsula
5	90	30.50	11.50	8	10	Calhoun	—	112	—	—	—	—	Ketchikan Gateway
5	92	19.10	9.20	8	11	Chambers	—	110	—	—	—	—	NW Arctic Borough
5	90	38.80	12.80	7	10	Cherokee	—	132	—	—	—	—	Kodiak Island
5	93	21.70	9.30	8	11	Chilton	—	92	—	—	—	—	Matanuska-Susitna
5	103	18.60	8.70	9	11	Choctaw	—	128	—	—	—	—	Nome
5	105	16.10	7.70	9	11	Clarke	—	105	—	—	—	—	North Slope
5	90	26.10	10.20	8	10	Clay	—	120	—	—	—	—	Prince-Wales-Ketchikan
5	90	28.90	11.30	8	10	Cleburne	—	121	—	—	—	—	Sitka
0	107	12.20	6.50	9	11	Coffee	—	118	—	—	—	—	Skagway-Yakutat-Angoon
10	90	30.90	14.10	7	9	Colbert	—	90	—	—	—	—	Southeast Fairbanks
5	109	12.70	6.70	9	11	Conecuh	—	98	—	—	—	—	Valdez-Cordova
5	93	22.10	9.30	8	11	Coosa	—	98	—	—	—	—	Wade Hampton
0	110	12.10	6.40	9	11	Covington	—	126	—	—	—	—	Wrangell-Petersburg
5	103	12.90	7.10	9	11	Crenshaw	—	112	—	—	—	—	Yukon-Koyukuk
10	90	29.20	12.50	7	10	Cullman	—	90	—	—	—	—	
0	104	12.20	6.70	9	11	Dale							
5	98	17.40	8.60	8	11	Dallas							ARIZONA
10	90	41.80	13.40	7	9	De Kalb	5(5000)	90	26.60	7.30	4	6	Apache
5	95	17.90	8.70	8	11	Elmore	0(3500)	90	33.00	9.00	5	7	Cochise
0	116	12.30	6.30	9	11	Escambia	0(3000)	90*	44.80	12.90	4	6	Coconino
5	90	34.90	12.40	7	10	Etowah	0(3500)	90	42.10	11.50	5	7	Gila
10	90	26.50	11.90	7	10	Fayette	0(3500)	90	31.10	8.80	5	7	Graham
10	90	28.60	13.70	7	9	Franklin	CS	90	36.30	9.40	4	6	Greenlee
0	111	11.40	6.20	9	11	Geneva	0(2000)	90	24.00	9.60	4	6	La Paz
5	93	21.40	9.60	8	11	Greene	0(2000)	90	22.60	6.50	4	7	Maricopa
5	94	19.80	9.30	8	11	Hale	0(3000)	90	29.30	9.20	4	6	Mohave
0	100	12.50	7.10	8	11	Henry	0(3000)	90*	19.50	6.00	4	6	Navajo
0	106	11.90	6.40	9	11	Houston	0(3000)	90	32.20	8.70	6	8	Pima
10	90	37.50	13.20	6	9	Jackson	0(2000)	90	28.70	8.40	5	8	Pinal
5	90	31.80	11.60	8	10	Jefferson	0(3500)	90	19.60	5.80	6	9	Santa Cruz
10	90	26.00	12.30	7	10	Lamar	CS	90	48.40	13.40	4	7	Yavapai
10	90	31.50	14.30	7	9	Lauderdale	0(1000)	90	67.40	23.50	4	6	Yuma
10	90	27.90	13.10	7	9	Lawrence							ARKANSAS
5	94	17.80	8.80	8	11	Lee							Arkansas
10	90	28.10	13.30	6	9	Limestone	10	90	50.70	19.40	8	10	Ashley
5	99	15.80	8.00	8	11	Lowndes	10	90	26.00	12.20	8	11	Baxter
5	96	16.70	8.40	8	11	Macon	15	90	38.00	15.90	7	10	Benton
10	90	29.20	13.00	6	9	Madison	15	90	17.70	9.30	8	11	Boone
5	98	18.00	8.70	9	11	Marengo	15	90	27.50	12.90	8	10	Bradley
10	90	27.30	13.10	7	10	Marion	10	90	29.70	13.20	8	11	Calhoun
10	90	33.30	12.70	7	9	Marshall	10	90	27.10	12.30	8	11	Carroll
0	130	12.30	6.00	10	12	Mobile	15	90	22.40	11.20	8	11	Chicot
5	106	14.00	7.00	9	11	Monroe	10	90	28.70	13.10	8	11	Clark
5	98	16.80	8.30	8	11	Montgomery	10	90	28.70	12.50	8	11	Clay
10	90	28.00	13.00	7	9	Morgan	10	90	163.60	47.40	7	9	Cleburne
5	95	19.00	9.10	8	11	Perry	10	90	60.60	20.80	7	10	Cleveland
5	90	24.00	11.00	8	10	Pickens	10	90	35.90	14.20	8	11	Columbia
5	100	13.10	7.30	8	11	Pike	5	90	20.50	9.70	8	11	Conway
5	90	24.80	10.00	8	10	Randolph	10	90	40.70	15.60	8	11	Craighead
5	96	16.80	8.60	8	11	Russell	10	90	281.20	83.70	7	10	Crawford
5	90	33.60	12.10	8	11	St. Clair	10	90	19.80	9.50	8	11	Crittenden
5	90	27.00	10.30	8	10	Shelby	10	90	180.50	53.10	7	10	Cross
5	97	19.30	9.30	8	11	Sumter	10	90	176.20	52.20	7	10	Dallas
5	90	29.00	11.00	8	10	Talladega	10	90	31.30	13.30	8	11	Desha
5	93	19.60	9.10	8	11	Tallapoosa	10	90	34.90	14.30	8	10	Drew
5	90	25.70	10.70	8	10	Tuscaloosa	10	90	31.80	13.70	8	11	Faulkner
10	90	28.90	12.10	7	10	Walker	10	90	50.00	17.90	8	10	Franklin
5	111	16.50	7.50	9	11	Washington	10	90	22.40	11.00	8	11	Fulton
5	100	15.70	7.90	9	11	Wilcox	15	90	52.70	19.50	7	10	Garland
10	90	27.80	12.60	7	10	Winston	10	90	31.50	13.20	8	11	Grant
							10	90	39.20	15.10	8	11	Greene
						ALASKA	10	90	181.70	53.60	7	10	Hempstead
—	125	—	—	—	—	Aleutian Is. East	10	90	20.80	9.80	8	11	Hot Spring
—	125	—	—	—	—	Aleutian Is. West	10	90	34.70	13.70	8	11	

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
10	90	20.40	9.70	8	11	Howard	0(1500)	85	156.30	60.00	4	6	Napa
10	90	73.90	24.20	7	10	Independence	CS	85*	55.00	18.60	4	6	Nevada
10	90	56.50	20.40	7	10	Izard	0(1800)	85	128.70	48.80	4	6	Orange
10	90	110.40	32.00	7	10	Jackson	CS	85*	41.30	17.50	4	6	Placer
10	90	41.60	16.60	8	11	Jefferson	CS	85*	107.20	31.00	4	6	Plumas
10	90	25.90	12.20	8	11	Johnson	0(2000)	85*	150.00	60.00	4	6	Riverside
5	90	19.00	9.40	8	11	Lafayette	0(1500)	85	56.30	21.80	4	6	Sacramento
10	90	114.30	32.30	7	10	Lawrence	0(2400)	85	150.30	75.20	4	6	San Benito
10	90	94.20	28.50	7	10	Lee	0(2000)	85*	150.60	60.00	4	6	San Bernardino
10	90	38.00	15.20	8	11	Lincoln	0(1800)	85	152.90	74.60	4	6	San Diego
10	90	18.30	9.00	8	11	Little River	0(2400)	85	150.00	70.00	4	6	San Francisco
10	90	23.40	11.30	8	11	Logan	0(1500)	85	81.60	29.30	4	6	San Joaquin
10	90	56.70	20.20	8	10	Lonoke	0(1500)	85	137.30	52.70	4	6	San Luis Obispo
10	90	21.70	10.90	8	11	Madison	0(2400)	85	163.80	96.20	4	6	San Mateo
15	90	33.90	14.30	8	10	Marion	0(1500)	85	191.90	79.50	4	6	Santa Barbara
5	90	18.10	9.00	8	11	Miller	0(2400)	85	150.00	60.00	4	6	Santa Clara
10	90	313.10	100.60	7	9	Mississippi	0(2400)	85	150.00	60.00	4	6	Santa Cruz
10	90	63.20	22.60	7	10	Monroe	CS	85*	84.00	27.40	4	6	Shasta
10	90	24.40	11.30	8	11	Montgomery	CS	85*	94.30	27.10	4	6	Sierra
10	90	23.70	10.90	8	11	Nevada	CS	85*	64.10	28.10	4	6	Siskiyou
10	90	27.60	12.90	8	11	Newton	0(1500)	85	150.00	60.00	4	6	Solano
10	90	25.90	11.70	8	11	Ouachita	0(800)	85	191.50	78.70	4	6	Sonoma
10	90	38.90	14.80	8	11	Perry	0(1500)	85	87.00	30.00	4	6	Stanislaus
10	90	68.30	24.00	8	10	Phillips	0(1500)	85	49.90	20.30	4	6	Sutter
10	90	22.50	10.50	8	11	Pike	5(800)	85	79.20	26.40	4	6	Tehama
10	90	267.60	81.40	7	10	Poinsett	CS	85	96.70	31.50	4	6	Trinity
10	90	19.30	9.50	8	11	Polk	0(1500)	85*	45.50	19.50	4	6	Tulare
10	90	31.00	13.50	8	11	Pope	CS	85*	39.90	16.60	4	6	Tuolumne
10	90	70.80	24.10	7	10	Prairie	0(1800)	85	214.40	95.40	4	6	Ventura
10	90	47.70	17.80	8	11	Pulaski	0(1500)	85	97.70	31.60	4	6	Yolo
10	90	100.50	28.50	7	10	Randolph	0(1500)	85	48.50	20.10	4	6	Yuba
10	90	121.20	36.80	7	10	St. Francis							
10	90	39.70	15.20	8	11	Saline							COLORADO
10	90	20.80	10.10	8	11	Scott	20	90*	18.60	5.60	4	7	Adams
10	90	38.40	15.70	8	10	Searcy	CS	90*	37.20	11.50	4	6	Alamosa
10	90	19.80	9.50	8	11	Sebastian	20	90*	20.20	5.90	4	7	Arapahoe
10	90	18.40	9.10	8	11	Sevier	CS	90	38.80	9.70	4	6	Archuleta
10	90	62.20	21.40	7	10	Sharp	15	90	11.90	4.00	6	8	Baca
10	90	53.20	19.60	7	10	Stone	15	90	13.10	4.60	5	8	Bent
5	90	23.40	10.80	8	11	Union	CS	90*	23.00	6.10	4	6	Boulder
10	90	46.50	17.80	8	10	Van Buren	CS	90	41.00	12.50	4	6	Chaffee
10	90	18.70	9.60	8	11	Washington	10(5000)	90	10.60	3.90	5	8	Cheyenne
10	90	69.50	23.30	7	10	White	CS	90*	26.70	6.60	4	6	Clear Creek
10	90	94.60	28.30	7	10	Woodruff	CS	90	34.00	10.30	4	6	Conejos
10	90	26.80	12.40	8	11	Yell	CS	90*	38.70	11.80	4	7	Costilla
							10(5000)	90	15.60	5.50	5	8	Crowley
						CALIFORNIA	CS	90*	28.00	9.30	4	6	Custer
0(2400)	85	151.40	60.00	4	6	Alameda	CS	90	44.10	9.20	4	6	Delta
CS	85*	182.00	74.90	4	6	Alpine	20	90*	19.80	5.90	4	7	Denver
0(1500)	85*	39.00	16.70	4	6	Amador	CS	90	24.40	6.40	4	6	Dolores
0(1500)	85	52.80	19.50	4	6	Butte	CS	90*	19.00	5.90	4	7	Douglas
0(1500)	85*	38.10	16.60	4	6	Calaveras	CS	90	37.60	8.30	4	6	Eagle
0(1500)	85	78.00	28.70	4	6	Colusa	20	90	17.80	5.50	4	7	Elbert
0(1500)	85	150.00	60.00	4	6	Contra Costa	CS	90*	18.20	6.00	4	7	El Paso
5(300)	85	159.10	76.40	4	6	Del Norte	CS	90*	20.90	7.40	4	6	Fremont
CS	85*	46.40	18.20	4	6	El Dorado	CS	90	43.60	9.00	4	6	Garfield
0(1500)	85*	46.30	20.40	4	6	Fresno	CS	90*	25.20	6.30	4	6	Gilpin
5(800)	85	76.20	27.20	4	6	Glenn	CS	90	27.20	6.80	4	6	Grand
0(700)	85	203.50	83.60	4	6	Humboldt	CS	90	41.60	10.20	4	6	Gunnison
0(1000)	85*	150.00	60.00	4	6	Imperial	CS	90	53.80	12.80	4	6	Hinsdale
0(2000)	85*	130.80	51.90	4	6	Inyo	20(6200)	90*	22.30	7.30	4	7	Huerfano
0(1800)	85*	117.40	42.10	4	6	Kern	CS	90	24.40	6.30	4	6	Jackson
0(1500)	85	59.50	24.30	4	6	Kings	CS	90*	22.40	6.10	4	6	Jefferson
CS	85	150.00	60.00	4	6	Lake	10(5000)	90	11.90	4.20	5	8	Kiowa
15(4400)	85*	113.60	36.50	4	6	Lassen	20	90	10.00	3.70	5	8	Kit Carson
0(1800)	85*	150.00	60.00	4	6	Los Angeles	CS	90	34.70	8.40	4	6	Lake
0(1500)	85*	51.80	20.90	4	6	Madera	CS	90	28.30	7.70	4	6	La Plata
0(1500)	85	150.00	60.50	4	6	Marin	20(6600)	90*	21.00	5.80	4	6	Larimer
0(1500)	85	51.40	19.10	4	6	Mariposa	20(6200)	90*	20.70	6.30	5	8	Las Animas
0(800)	85	186.90	79.70	4	6	Mendocino	10(5000)	90	13.20	4.40	5	8	Lincoln
0(1500)	85	55.90	21.90	4	6	Merced	20	90	10.20	4.00	5	8	Logan
15(4400)	85*	79.30	28.50	4	6	Modoc	CS	90	37.70	8.40	4	6	Mesa
CS	85	150.00	60.00	4	6	Mono	CS	90	42.30	11.70	4	6	Mineral
0(1500)	85	150.20	60.50	4	6	Monterey	35(6000)	90	26.60	7.10	4	6	Moffat

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
CS	90	23.20	6.20	4	6	Montezuma	0	109	11.20	6.00	10	11	Jackson
CS	90	48.10	9.80	4	6	Montrose	0	106	11.90	6.30	10	11	Jefferson
20	90	12.30	4.30	4	7	Morgan	0	109	11.70	6.10	10	11	Lafayette
10(5000)	90	15.20	5.20	5	8	Otero	0	101	11.30	4.90	10	12	Lake
CS	90	53.60	12.20	4	6	Ouray	0	121	8.30	2.90	10	12	Lee
CS	90*	28.80	8.00	4	6	Park	0	108	11.40	6.10	10	11	Leon
20	90	8.30	3.50	5	8	Phillips	0	113	11.10	5.60	10	11	Levy
CS	90	43.30	9.20	4	6	Pitkin	0	115	10.70	5.80	10	12	Liberty
10(5000)	90	11.70	4.10	6	8	Prowers	0	105	12.20	6.40	10	11	Madison
10(5000)	90*	17.10	6.00	4	7	Pueblo	0	116	7.80	3.30	10	12	Manatee
30(6000)	90	33.50	8.00	4	6	Rio Blanco	0	98	11.30	5.20	10	11	Marion
CS	90	35.50	10.50	4	6	Rio Grande	0	130	7.80	3.30	11	14	Martin
CS	90	25.30	6.70	4	6	Routt	0	141	2.70	1.30	11	12	Monroe
CS	90*	39.90	12.50	4	6	Saguache	0	109	17.00	8.50	10	11	Nassau
CS	90	49.60	11.70	4	6	San Juan	0	124	10.90	5.90	10	12	Okaloosa
CS	90	48.30	11.00	4	6	San Miguel	0	116	8.80	3.40	10	12	Okeechobee
20	90	8.40	3.50	5	8	Sedgwick	0	105	11.30	4.60	10	12	Orange
CS	90	29.70	7.60	4	6	Summit	0	109	11.10	4.30	10	12	Osceola
CS	90*	20.00	6.50	4	7	Teller	0	130	7.10	2.80	12	14	Palm Beach
20	90	10.60	4.00	5	8	Washington	0	111	10.00	4.10	11	13	Pasco
20	90*	18.00	5.40	4	7	Weld	0	126	7.80	3.60	10	12	Pinellas
20	90	8.40	3.50	5	8	Yuma	0	105	10.10	3.90	10	12	Polk
							0	106	12.40	6.10	10	11	Putnam
						CONNECTICUT	0	119	12.70	6.40	10	11	St. Johns
30	105	33.20	8.70	6	8	Fairfield	0	130	8.00	3.50	11	12	St. Lucie
30	99	27.50	8.50	5	7	Hartford	0	124	10.90	5.80	10	12	Santa Rosa
35	94*	28.00	8.70	5	7	Litchfield	0	125	7.70	3.20	10	12	Sarasota
30	110	27.70	8.40	6	8	Middlesex	0	110	11.30	5.00	10	12	Seminole
30	108	28.60	8.40	6	8	New Haven	0	99	10.60	4.50	10	12	Sumter
30	115	26.10	7.90	6	8	New London	0	103	12.50	6.40	10	11	Suwannee
30	100	26.90	8.50	5	7	Tolland	0	111	11.20	6.00	10	11	Taylor
30	105	26.30	8.30	5	7	Windham	0	98	12.80	6.40	10	11	Union
							0	119	11.40	5.30	10	12	Volusia
						DELAWARE	0	113	10.50	5.70	10	12	Wakulla
25	96	20.60	6.30	7	10	Kent	0	120	10.70	5.90	10	12	Walton
20	90	31.40	7.80	7	9	New Castle	0	117	11.00	6.00	10	11	Washington
20	107	15.40	5.80	7	10	Sussex							
							0	101	21.90	10.10	8	11	GEORGIA Appling
							0	96	16.60	8.60	9	11	Atkinson
25	90	18.00	6.30	7	10	DISTRICT OF COLUMBIA	0	99	18.90	9.30	8	11	Bacon
							0	99	12.60	7.20	9	11	Baker
						FLORIDA	5	91	26.30	11.40	8	10	Baldwin
0	100	12.00	5.90	10	11	Alachua	10	90	31.70	12.70	7	9	Banks
0	97	14.10	7.20	10	11	Baker	5	90	27.40	11.90	7	10	Barrow
0	123	8.80	5.30	10	12	Bay	5	90	36.90	12.50	7	10	Bartow
0	98	12.80	6.40	10	11	Bradford	0	96	17.00	8.80	8	11	Ben Hill
0	121	10.50	4.70	10	12	Brevard	0	97	14.80	8.00	9	11	Berrien
0	131	6.70	2.60	12	14	Broward	5	92	22.40	10.10	8	10	Bibb
0	115	10.70	5.80	10	12	Calhoun	5	94	19.40	9.50	8	11	Bleckley
0	117	8.30	3.00	10	12	Charlotte	0	107	18.80	9.20	9	11	Brantley
0	110	10.40	4.60	10	12	Citrus	0	101	12.50	6.90	9	11	Brooks
0	105	13.30	6.60	10	11	Clay	0	115	32.90	13.30	9	11	Bryan
0	128	7.40	2.60	11	12	Collier	0	105	34.90	13.70	8	11	Bulloch
0	99	12.80	6.50	10	11	Columbia	5	96	38.30	14.20	8	10	Burke
0	140	6.10	2.40	12	14	Dade	5	90	23.20	10.50	8	10	Butts
0	110	8.80	3.30	10	12	De Soto	0	98	12.80	7.40	8	11	Calhoun
0	119	10.70	5.60	10	11	Dixie	0	116	18.20	9.00	9	11	Camden
0	115	14.90	7.60	10	11	Duval	0	100	29.20	12.80	8	11	Candler
0	129	10.30	5.60	10	12	Escambia	5	90	25.90	10.70	8	10	Carroll
0	115	11.90	5.90	10	12	Flagler	10(1800)	90	55.70	14.30	7	9	Catoosa
0	125	8.00	4.90	10	12	Franklin	0	104	16.80	8.50	9	11	Charlton
0	107	11.50	6.10	10	11	Gadsden	0	120	40.20	14.70	9	11	Chatham
0	107	11.20	5.80	10	11	Gilchrist	5	94	16.10	8.50	8	11	Chattahoochee
0	115	9.00	3.20	11	12	Glades	5	90	48.90	13.80	7	10	Chattooga
0	127	8.10	4.90	10	12	Gulf	5	90	34.70	12.50	7	10	Cherokee
0	100	13.10	7.00	10	11	Hamilton	5	90	28.60	12.30	7	10	Clarke
0	107	9.40	3.60	10	12	Hardee	0	98	12.60	7.30	8	11	Clay
0	118	8.90	3.10	11	12	Hendry	5	90	23.50	10.50	8	10	Clayton
0	112	9.80	4.20	11	13	Hernando	0	97	15.80	8.20	9	11	Clinch
0	110	9.60	3.60	10	12	Highlands	5	90	28.20	11.70	8	10	Cobb
0	110	8.60	3.70	10	12	Hillsborough	0	96	17.50	8.90	8	11	Coffee
0	114	10.90	6.00	10	11	Holmes	0	98	13.00	7.50	9	11	Colquitt
0	126	8.20	3.70	10	12	Indian River	5	92	39.60	14.00	8	10	Columbia

S	W	S _s	S _t	I1	I2	County Name	S	W	S _s	S _t	I1	I2	County Name
0	98	14.00	7.70	9	11	Cook	5	92	18.60	9.30	8	11	Peach
5	90	22.50	9.90	8	10	Coweta	5	90	39.40	13.10	7	9	Pickens
5	92	18.90	9.40	8	10	Crawford	0	102	18.50	9.20	9	11	Pierce
0	95	16.30	8.70	8	11	Crisp	5	90	19.80	9.60	8	10	Pike
10(1800)	90	48.10	13.90	7	9	Dade	5	90	37.50	12.50	7	10	Polk
5	90	34.60	12.70	7	9	Dawson	0	93	18.50	9.30	8	11	Pulaski
0	104	12.00	6.40	9	11	Decatur	5	90	26.70	11.60	8	10	Putnam
5	90	25.70	11.20	8	10	De Kalb	5	97	13.70	7.70	8	11	Quitman
0	94	19.00	9.50	8	11	Dodge	10(1800)	90	41.30	13.60	7	9	Rabun
0	94	16.90	8.80	8	11	Dooly	0	97	13.40	7.70	8	11	Randolph
0	97	13.70	7.80	8	11	Dougherty	5	94	42.30	15.20	8	10	Richmond
5	90	26.70	11.10	8	10	Douglas	5	90	25.10	11.10	8	10	Rockdale
0	102	12.30	6.90	9	11	Early	5	94	16.30	8.60	8	11	Schley
0	99	13.50	7.30	9	11	Echols	5	101	41.40	15.40	8	11	Screven
0	108	42.20	15.70	9	11	Effingham	0	104	11.90	6.40	9	11	Seminole
10	90	37.40	13.40	7	10	Elbert	5	90	21.30	9.90	8	10	Spalding
5	97	27.90	12.50	8	11	Emanuel	10(1800)	90	36.90	13.20	7	9	Stephens
0	104	28.60	12.60	8	11	Evans	5	96	14.80	8.10	8	11	Stewart
10(1800)	90	48.50	13.90	7	9	Fannin	0	95	15.70	8.50	8	11	Sumter
5	90	22.80	10.20	7	10	Fayette	5	92	17.80	9.00	8	11	Talbot
5	90	42.10	13.10	7	10	Floyd	5	90	32.50	12.80	8	10	Taliaferro
5	90	29.50	12.20	7	10	Forsyth	0	103	26.40	11.80	8	11	Tattnall
10	90	34.60	13.00	7	9	Franklin	5	93	17.80	9.10	8	11	Taylor
5	90	25.60	11.10	8	10	Fulton	0	96	19.80	9.60	8	11	Telfair
10(1800)	90	46.00	13.70	7	9	Gilmer	0	96	13.90	7.90	8	11	Terrell
5	92	31.70	13.00	8	10	Glascocock	0	102	12.20	6.60	9	11	Thomas
0	119	20.50	9.50	9	11	Glynn	0	97	15.00	8.20	8	11	Tift
5	90	48.90	13.70	7	9	Gordon	0	99	25.70	11.60	8	11	Toombs
0	103	12.20	6.50	9	11	Grady	10(1800)	90	43.20	13.70	7	9	Towns
5	90	28.70	12.30	8	10	Greene	0	96	24.70	11.30	8	11	Treutlen
5	90	26.90	11.70	7	10	Gwinnett	5	91	19.40	9.30	8	10	Troup
10(1800)	90	36.60	13.10	7	9	Habersham	0	96	15.60	8.40	8	11	Turner
5	90	30.00	12.40	7	9	Hall	5	93	22.70	10.30	8	10	Twiggs
5	90	28.40	12.30	8	10	Hancock	10(1800)	90	42.70	13.60	7	9	Union
5	90	29.30	11.50	8	10	Haralson	5	92	18.80	9.40	8	10	Upson
5	92	18.10	9.00	8	11	Harris	10(1800)	90	53.30	14.10	7	9	Walker
10	90	37.80	13.40	7	9	Hart	5	90	26.60	11.70	7	10	Walton
5	90	22.40	9.70	8	10	Heard	0	98	17.70	8.90	9	11	Ware
5	90	23.30	10.50	8	10	Henry	5	90	33.70	13.10	8	10	Warren
5	93	18.60	9.30	8	11	Houston	5	93	27.30	12.10	8	10	Washington
0	96	16.50	8.60	8	11	Irwin	0	106	23.60	10.70	9	11	Wayne
5	90	28.40	12.30	7	10	Jackson	5	96	15.20	8.30	8	11	Webster
5	90	25.00	11.00	8	10	Jasper	0	96	21.60	10.20	8	11	Wheeler
0	97	20.70	9.80	8	11	Jeff Davis	10(1800)	90	36.20	13.00	7	9	White
5	94	30.60	13.00	8	10	Jefferson	10(1800)	90	55.60	14.30	7	9	Whitfield
5	98	36.40	14.00	8	11	Jenkins	0	95	17.80	9.10	8	11	Wilcox
5	95	26.20	11.80	8	11	Johnson	5	90	36.80	13.40	7	10	Wilkes
5	90	24.40	10.70	8	10	Jones	5	93	24.60	11.00	8	10	Wilkinson
5	90	20.30	9.60	8	10	Lamar	0	97	14.40	8.00	8	11	Worth
0	97	14.70	7.90	9	11	Lanier							
5	95	23.80	10.90	8	11	Laurens							HAWAII
0	96	14.30	8.00	8	11	Lee	—	105	150.00	60.00	—	0	Hawaii
0	114	28.20	12.40	9	11	Liberty	—	105	61.40	17.80	—	0	Honolulu
5	90	40.40	13.90	7	10	Lincoln	—	105	24.40	6.80	—	0	Kauai
0	109	25.80	11.50	9	11	Long	—	105	97.00	24.80	—	0	Maui
0	99	13.10	7.30	9	11	Lowndes							
10(1800)	90	36.00	12.90	7	9	Lumpkin							IDAHO
5	92	36.60	13.50	8	10	McDuffie	10(3200)	90	35.90	11.00	4	6	Ada
0	122	23.90	10.70	9	11	McIntosh	CS	90	51.20	14.40	4	6	Adams
5	93	17.10	8.90	8	11	Macon	CS	90	47.40	14.20	4	6	Bannock
5	90	32.00	12.70	7	10	Madison	CS	90	116.90	37.90	4	6	Bear Lake
5	93	16.40	8.60	8	11	Marion	CS	90	35.30	9.50	4	6	Benewah
5	90	19.00	9.40	8	10	Meriwether	20(4500)	90	51.20	14.80	4	6	Bingham
0	103	12.20	6.70	9	11	Miller	CS	90	54.90	15.80	4	6	Blaine
0	99	12.60	7.20	9	11	Mitchell	CS	90	59.90	17.00	4	6	Boise
5	90	21.70	9.90	8	10	Monroe	CS	90	36.60	9.90	4	6	Bonner
0	97	23.40	10.80	8	11	Montgomery	CS	90	57.40	17.30	4	6	Bonneville
5	90	27.10	11.80	8	10	Morgan	CS	90	30.30	9.10	4	6	Boundary
10(1800)	90	53.90	14.10	7	9	Murray	CS	90	54.00	19.50	4	6	Butte
5	93	16.80	8.60	8	11	Muscogee	CS	90	44.70	13.20	4	6	Camas
5	90	25.20	11.20	8	10	Newton	10(3200)	90	31.20	9.60	4	6	Canyon
5	90	28.10	12.20	7	10	Oconee	CS	90	107.20	28.60	4	6	Caribou
5	90	31.90	12.70	7	10	Oglethorpe	10(3800)	90	27.90	9.10	4	6	Cassia
5	90	29.90	11.70	7	10	Paulding	CS	90*	53.80	18.60	4	6	Clark

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
CS	90*	28.50	8.70	4	6	Clearwater	20	90	18.60	7.90	6	8	Kankakee
CS	90	114.20	30.90	4	6	Custer	25	90	22.40	7.40	6	8	Kendall
20(3200)	90	30.20	9.30	4	6	Elmore	20	90	15.40	7.60	6	8	Knox
CS	90	95.90	26.60	4	6	Franklin	25	90	15.80	5.80	5	7	Lake
CS	90*	55.00	18.10	4	6	Fremont	20	90	19.30	7.70	6	8	La Salle
CS	90	38.60	11.90	4	6	Gem	20	90	62.10	19.20	6	8	Lawrence
CS	90	31.30	9.30	4	6	Gooding	25	90	17.30	6.40	6	8	Lee
CS	90*	28.70	8.80	4	6	Idaho	20	90	18.40	8.50	6	8	Livingston
CS	90	52.20	16.30	4	6	Jefferson	20	90	21.20	10.10	6	8	Logan
10(3800)	90	28.00	8.80	4	6	Jerome	20	90	16.70	8.50	6	9	McDonough
CS	90	37.80	10.20	4	6	Kootenai	25	90	17.50	6.00	5	7	McHenry
CS	90	28.60	8.80	4	6	Latah	20	90	18.70	9.20	6	8	McLean
10(5000)	90*	59.40	18.30	4	6	Lemhi	20	90	26.70	11.90	6	8	Macon
CS	90	28.50	8.70	4	6	Lewis	20	90	37.70	13.90	6	9	Macoupin
CS	90	30.50	9.30	4	6	Lincoln	20	90	56.00	17.90	6	9	Madison
CS	90	50.80	16.50	4	6	Madison	20	90	71.50	20.90	6	8	Marion
20(4500)	90	26.90	9.00	4	6	Minidoka	20	90	17.60	8.00	6	8	Marshall
CS	90	28.70	8.90	4	6	Nez Perce	20	90	18.50	9.20	6	8	Mason
CS	90	89.70	23.80	4	6	Oneida	15	90	196.10	57.90	6	9	Massac
CS	90	28.60	9.20	4	6	Owyhee	20	90	21.90	10.40	6	8	Menard
CS	90	34.20	10.40	4	6	Payette	20	90	13.00	6.60	6	9	Mercer
10(3800)	90	34.90	11.60	4	6	Power	20	90	66.70	20.60	6	9	Monroe
CS	90	39.60	11.40	4	6	Shoshone	20	90	44.10	15.60	6	8	Montgomery
CS	90	99.60	28.80	4	6	Teton	20	90	24.50	11.30	6	9	Morgan
10(3800)	90	27.60	8.70	4	6	Twin Falls	20	90	33.20	13.20	6	8	Moultrie
CS	90	58.70	17.20	4	6	Valley	25	90	17.20	6.20	6	8	Ogle
CS	90	36.60	11.20	4	6	Washington	20	90	17.50	8.60	6	8	Peoria
							20	90	93.90	26.00	6	9	Perry
						ILLINOIS	20	90	24.50	11.00	6	8	Piatt
20	90	17.00	8.90	6	9	Adams	20	90	22.90	10.80	6	9	Pike
15	90	339.80	114.40	6	9	Alexander	15	90	123.90	36.10	6	8	Pope
20	90	57.20	18.40	6	9	Bond	15	90	328.60	104.00	6	9	Pulaski
25	90	17.40	6.00	5	7	Boone	20	90	18.00	7.70	6	8	Putnam
20	90	18.80	9.40	6	9	Brown	20	90	92.90	25.90	6	9	Randolph
20	90	17.80	7.40	6	8	Bureau	20	90	68.90	20.20	6	8	Richland
20	90	32.70	13.20	6	9	Calhoun	25	90	13.00	6.20	6	8	Rock Island
25	90	13.50	5.80	6	6	Carroll	20	90	63.70	20.00	6	9	St. Clair
20	90	21.40	10.30	6	9	Cass	15	90	111.70	30.20	6	8	Saline
20	90	23.50	10.50	6	8	Champaign	20	90	25.60	11.60	6	8	Sangamon
20	90	32.60	13.20	6	8	Christian	20	90	18.60	9.30	6	9	Schuyler
20	90	38.50	13.80	6	8	Clark	20	90	24.80	11.40	6	8	Scott
20	90	65.80	20.10	6	8	Clay	20	90	39.00	14.10	6	8	Shelby
20	90	65.90	20.60	6	9	Clinton	20	90	16.60	7.70	6	8	Stark
20	90	37.00	13.60	6	8	Coles	25	90	14.20	5.70	6	8	Stephenson
25	90	18.60	6.50	5	7	Cook	20	90	17.80	8.90	6	8	Tazewell
20	90	54.30	17.20	6	8	Crawford	15	90	181.60	53.60	6	9	Union
20	90	43.60	15.10	6	8	Cumberland	20	90	22.40	10.00	6	8	Vermilion
25	90	19.60	6.50	6	8	De Kalb	20	90	77.30	21.20	6	8	Wabash
20	90	22.00	10.30	6	8	De Witt	20	90	14.50	7.40	6	9	Warren
20	90	27.80	12.10	6	8	Douglas	20	90	82.70	23.10	6	9	Washington
25	90	21.60	6.90	5	8	Du Page	20	90	92.90	24.30	6	8	Wayne
20	90	31.60	12.70	6	8	Edgar	15	90	98.40	26.30	6	8	White
20	90	89.60	23.30	6	8	Edwards	25	90	15.20	6.20	6	8	Whiteside
20	90	51.00	16.80	6	8	Effingham	25	90	21.90	7.50	6	8	Will
20	90	56.30	18.10	6	8	Fayette	15	90	117.50	32.70	6	9	Williamson
20	90	19.00	9.20	6	8	Ford	25	90	16.60	6.00	6	8	Winnebago
15	90	102.80	27.90	6	9	Franklin	20	90	17.80	8.70	6	8	Woodford
20	90	18.00	9.00	6	8	Fulton							
15	90	103.60	28.30	6	8	Gallatin							INDIANA
20	90	31.20	13.00	6	9	Greene	20	90	19.80	7.00	5	7	Adams
20	90	21.00	7.80	6	8	Grundy	20	90	15.90	6.30	5	7	Allen
15	90	102.10	27.30	6	8	Hamilton	20	90	20.60	10.10	5	8	Bartholomew
20	90	15.20	8.10	6	9	Hancock	20	90	17.40	8.50	6	8	Benton
15	90	112.30	30.70	6	8	Hardin	20	90	17.60	7.60	5	7	Blackford
20	90	13.00	7.00	6	9	Henderson	20	90	18.40	9.00	5	8	Boone
20	90	15.30	6.90	6	8	Henry	20	90	24.30	11.00	6	8	Brown
20	90	17.80	8.40	6	8	Iroquois	20	90	15.80	8.00	5	8	Carroll
15	90	111.90	31.00	6	9	Jackson	20	90	14.30	7.40	5	7	Cass
20	90	57.60	18.10	6	9	Jasper	15	90	24.50	11.80	6	8	Clark
20	90	90.40	24.40	6	9	Jefferson	20	90	29.90	12.30	6	8	Clay
20	90	38.30	14.00	6	9	Jersey	20	90	17.20	8.60	5	8	Clinton
30	90	10.80	5.00	6	8	Jo Daviess	15	90	33.50	13.70	6	8	Crawford
15	90	170.90	49.50	6	9	Johnson	20	90	49.90	16.70	6	8	Daviess
25	90	21.70	6.90	5	8	Kane	20	90	18.20	8.90	5	8	Dearborn

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
20	90	18.10	9.20	5	8	Decatur	20	90	18.10	7.10	5	7	Wells
20	90	14.70	6.00	5	7	De Kalb	20	90	15.30	7.80	5	8	White
20	90	17.60	8.00	5	7	Delaware	20	90	14.00	6.20	5	7	Whitley
15	90	43.60	16.00	6	8	Dubois							
25	90	12.30	5.90	5	7	Elkhart							IOWA
20	90	17.70	8.50	5	7	Fayette	25	90	7.90	4.20	7	10	Adair
15	90	25.10	12.00	6	8	Floyd	20	90	8.70	4.30	7	10	Adams
20	90	21.40	9.60	6	8	Fountain	35	90	6.90	3.70	6	8	Allamakee
20	90	17.70	8.70	5	7	Franklin	20	90	8.90	5.60	7	9	Appanoose
20	90	12.80	6.50	5	7	Fulton	25	90	7.90	3.90	7	10	Audubon
15	90	66.60	20.50	6	8	Gibson	25	90	7.90	4.30	6	9	Benton
20	90	15.80	7.40	5	7	Grant	30	90	7.10	4.00	6	9	Black Hawk
20	90	37.80	13.70	6	8	Greene	25	90	6.80	3.90	7	10	Boone
20	90	17.10	8.60	5	8	Hamilton	30	90	6.60	3.80	6	9	Bremer
20	90	17.50	8.80	5	8	Hancock	30	90	7.60	4.10	6	8	Buchanan
15	90	27.90	12.90	6	8	Harrison	35	90	7.30	3.50	7	10	Buena Vista
20	90	21.60	9.70	6	8	Hendricks	35	90	6.30	3.70	6	9	Butler
20	90	17.50	8.30	5	7	Henry	30	90	6.80	3.60	7	10	Calhoun
20	90	15.30	7.80	5	7	Howard	25	90	7.40	3.80	7	10	Carroll
20	90	15.30	6.60	5	7	Huntington	25	90	8.30	4.10	7	10	Cass
20	90	24.20	11.40	6	8	Jackson	25	90	10.90	5.60	6	8	Cedar
20	90	16.00	7.70	5	8	Jasper	40	90	5.70	3.40	6	9	Cerro Gordo
20	90	22.50	7.80	5	7	Jay	35	90	7.70	3.50	7	10	Cherokee
20	90	19.50	9.90	5	8	Jefferson	35	90	6.30	3.60	6	8	Chickasaw
20	90	19.20	9.80	5	8	Jennings	20	90	8.00	4.60	7	10	Clarke
20	90	19.70	9.60	5	8	Johnson	35	90	7.10	3.30	6	9	Clay
20	90	60.30	18.80	6	8	Knox	30	90	7.60	4.00	6	8	Clayton
20	90	12.60	6.20	5	7	Kosciusko	25	90	13.80	6.00	6	8	Clinton
20	90	12.60	5.80	5	7	Lagrange	25	90	8.00	3.80	7	10	Crawford
25	90	17.40	7.00	5	7	Lake	25	90	7.30	4.10	7	10	Dallas
CS	90	13.20	6.20	5	7	La Porte	20	90	10.00	5.90	7	9	Davis
20	90	29.40	12.80	6	8	Lawrence	20	90	8.30	5.00	7	10	Decatur
20	90	16.80	8.20	5	7	Madison	30	90	8.10	4.30	6	8	Delaware
20	90	18.70	9.20	5	8	Marion	20	90	12.80	7.20	6	9	Des Moines
25	90	12.50	6.20	5	7	Marshall	40	90	7.00	3.20	6	9	Dickinson
20	90	38.60	14.10	6	8	Martin	30	90	9.80	4.70	6	8	Dubuque
20	90	14.10	7.20	5	7	Miami	40	90	6.60	3.20	6	9	Emmet
20	90	27.70	12.10	6	8	Monroe	30	90	6.90	3.80	6	8	Fayette
20	90	20.30	9.40	6	8	Montgomery	35	90	6.00	3.50	6	9	Floyd
20	90	24.50	10.80	6	8	Morgan	35	90	6.10	3.60	6	9	Franklin
20	90	17.20	8.30	6	8	Newton	25	90	12.10	4.60	7	10	Fremont
20	90	13.10	6.00	5	7	Noble	25	90	7.00	3.80	7	10	Greene
20	90	18.50	9.10	5	8	Ohio	30	90	6.90	4.00	6	9	Grundy
15	90	31.90	13.30	6	8	Orange	25	90	7.50	4.00	7	10	Guthrie
20	90	29.70	12.40	6	8	Owen	30	90	6.30	3.70	6	9	Hamilton
20	90	26.50	11.30	6	8	Parke	40	90	5.70	3.40	6	9	Hancock
15	90	40.60	15.90	6	8	Perry	30	90	6.60	3.90	6	9	Hardin
15	90	56.20	18.20	6	8	Pike	25	90	10.00	4.00	7	10	Harrison
25	90	15.60	6.50	5	7	Porter	20	90	11.50	6.30	6	9	Henry
15	90	90.90	25.30	6	8	Posey	40	90	6.00	3.50	6	8	Howard
20	90	13.70	6.90	5	7	Pulaski	35	90	6.20	3.50	6	9	Humboldt
20	90	26.10	11.10	6	8	Putnam	30	90	7.80	3.70	7	10	Ida
20	90	21.30	8.10	5	7	Randolph	25	90	8.40	4.90	6	9	Iowa
20	90	18.30	9.30	5	8	Ripley	25	90	11.30	5.40	6	8	Jackson
20	90	17.50	8.80	5	8	Rush	25	90	7.50	4.30	7	9	Jasper
CS	90	12.20	5.90	5	7	St Joseph	20	90	10.40	6.00	6	9	Jefferson
20	90	22.70	11.00	6	8	Scott	25	90	10.20	5.50	6	9	Johnson
20	90	18.30	9.20	5	8	Shelby	25	90	9.30	5.00	6	8	Jones
15	90	50.20	18.10	6	8	Spencer	20	90	9.00	5.40	6	9	Keokuk
25	90	13.30	6.40	5	7	Starke	40	90	6.00	3.40	6	9	Kossuth
20	90	13.60	5.70	5	7	Steuben	20	90	13.00	7.40	6	9	Lee
20	90	43.60	15.00	6	8	Sullivan	25	90	8.70	4.90	6	8	Linn
20	90	19.00	9.50	5	8	Switzerland	20	90	12.00	6.30	6	9	Louisia
20	90	17.40	8.60	6	8	Tippecanoe	20	90	8.10	4.90	7	10	Lucas
20	90	16.20	8.20	5	7	Tipton	40	90	9.20	3.50	6	9	Lyon
20	90	18.10	8.40	5	7	Union	20	90	7.70	4.20	7	10	Madison
15	90	68.60	21.40	6	8	Vanderburgh	20	90	8.30	5.10	7	9	Mahaska
20	90	25.40	10.90	6	8	Vermillion	20	90	7.90	4.70	7	9	Marion
20	90	34.60	13.10	6	8	Vigo	25	90	7.20	4.10	6	9	Marshall
20	90	14.30	6.90	5	7	Wabash	25	90	11.80	4.30	7	10	Mills
20	90	19.00	9.20	6	8	Warren	40	90	5.70	3.40	6	8	Mitchell
15	90	58.10	19.40	6	8	Warrick	25	90	9.70	3.90	7	10	Monona
20	90	26.30	12.20	6	8	Washington	20	90	8.40	5.30	7	9	Monroe
20	90	18.90	8.30	5	7	Wayne	25	90	10.10	4.30	7	10	Montgomery

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
20	90	11.90	6.10	6	8	Muscatine	20	90	18.00	5.70	7	10	Jackson
35	90	7.80	3.40	7	9	O'Brien	20	90	15.00	5.70	7	10	Jefferson
40	90	8.10	3.40	6	9	Osceola	25	90	11.00	4.10	7	10	Jewell
20	90	10.40	4.60	7	10	Page	20	90	12.30	6.00	7	10	Johnson
35	90	6.50	3.30	6	9	Palo Alto	15	90	9.90	4.00	6	9	Kearny
35	90	8.80	3.60	7	10	Plymouth	15	90	13.20	5.40	7	11	Kingman
35	90	6.60	3.50	7	9	Pocahontas	15	90	10.80	4.60	7	10	Kiowa
25	90	7.30	4.20	7	10	Polk	15	90	12.20	7.10	8	11	Labette
25	90	11.60	4.20	7	10	Pottawattamie	20	90	9.20	4.00	7	9	Lane
25	90	8.10	4.80	6	9	Poweshiek	20	90	12.60	5.70	7	10	Leavenworth
20	90	8.50	4.80	7	10	Ringgold	25	90	11.30	4.40	7	10	Lincoln
30	90	7.20	3.60	7	10	Sac	20	90	11.90	6.30	8	10	Linn
25	90	12.90	6.20	6	8	Scott	20	90	8.80	3.60	6	9	Logan
25	90	8.40	4.00	7	10	Shelby	20	90	14.40	5.70	8	10	Lyon
35	90	8.50	3.50	7	9	Sioux	20	90	12.60	5.10	7	11	McPherson
25	90	6.90	4.00	7	9	Story	20	90	13.90	5.40	7	11	Marion
25	90	7.60	4.20	6	9	Tama	20	90	18.00	5.30	7	10	Marshall
20	90	9.80	4.70	7	10	Taylor	15	90	10.50	4.30	7	10	Meade
20	90	8.20	4.30	7	10	Union	20	90	12.10	6.10	7	10	Miami
20	90	11.20	6.30	6	9	Van Buren	25	90	11.30	4.20	7	10	Mitchell
20	90	9.30	5.70	7	9	Wapello	15	90	11.70	6.30	8	11	Montgomery
20	90	7.60	4.40	7	10	Warren	20	90	17.50	5.70	7	10	Morris
20	90	10.50	5.80	6	9	Washington	15	90	11.30	3.90	6	9	Morton
20	90	8.40	5.20	7	10	Wayne	20	90	17.80	5.50	7	10	Nemaha
30	90	6.40	3.60	7	9	Webster	15	90	11.60	6.40	8	11	Neosho
40	90	5.70	3.30	6	9	Winnebago	20	90	10.20	4.10	7	10	Ness
35	90	6.50	3.60	6	8	Winneshiek	25	90	10.90	3.90	7	10	Norton
30	90	9.90	3.80	7	10	Woodbury	20	90	14.50	5.80	7	10	Osage
40	90	5.60	3.20	6	9	Worth	25	90	10.90	4.10	7	10	Osborne
35	90	6.00	3.60	6	9	Wright	20	90	12.40	4.70	7	10	Ottawa
KANSAS							20	90	10.70	4.40	7	10	Pawnee
20	90	11.60	6.10	8	11	Allen	25	90	11.00	4.00	7	10	Phillips
20	90	12.00	6.00	8	10	Anderson	20	90	22.90	5.90	7	10	Pottawatomie
20	90	13.10	5.60	7	10	Atchison	15	90	11.80	5.00	7	10	Pratt
15	90	12.60	5.30	7	11	Barber	25	90	8.40	3.20	6	9	Rawlins
20	90	11.10	4.50	7	10	Barton	15	90	12.70	5.20	7	11	Reno
20	90	12.10	6.80	8	11	Bourbon	25	90	12.60	4.40	7	10	Republic
20	90	15.00	5.40	7	10	Brown	20	90	11.80	4.80	7	10	Rice
15	90	12.70	5.70	8	11	Butler	20	90	22.90	5.90	7	10	Riley
20	90	14.50	5.60	8	11	Chase	25	90	11.80	4.10	7	10	Rooks
15	90	12.00	6.10	8	11	Chautauqua	20	90	11.30	4.30	7	10	Rush
15	90	12.50	7.50	8	11	Cherokee	25	90	11.60	4.30	7	10	Russell
20	90	8.40	3.40	6	9	Cheyenne	20	90	12.60	4.90	7	10	Saline
15	90	11.20	4.70	7	10	Clark	20	90	9.00	3.90	7	9	Scott
20	90	17.30	5.20	7	10	Clay	15	90	14.00	5.60	8	11	Sedgwick
25	90	12.50	4.50	7	10	Cloud	15	90	11.00	4.30	7	9	Seward
20	90	12.20	5.80	8	10	Coffey	20	90	17.50	5.90	7	10	Shawnee
15	90	11.40	4.90	7	10	Comanche	25	90	9.80	3.80	6	9	Sheridan
15	90	12.90	5.90	8	11	Cowley	20	90	8.80	3.50	6	9	Sherman
15	90	12.10	7.00	8	11	Crawford	25	90	10.40	4.00	7	10	Smith
25	90	9.40	3.50	6	9	Decatur	15	90	11.30	4.70	7	10	Stafford
20	90	15.80	5.20	7	10	Dickinson	15	90	10.80	3.90	6	9	Stanton
20	90	12.60	5.40	7	10	Doniphan	15	90	10.70	4.10	6	9	Stevens
20	90	13.90	5.80	7	10	Douglas	15	90	13.90	5.80	8	11	Sumner
15	90	10.30	4.30	7	10	Edwards	20	90	8.50	3.40	6	9	Thomas
15	90	11.80	5.90	8	11	Elk	20	90	11.80	4.10	7	10	Trego
25	90	12.30	4.30	7	10	Ellis	20	90	22.00	5.90	7	10	Wabaunsee
20	90	11.30	4.50	7	10	Ellsworth	20	90	9.40	3.60	6	9	Wallace
15	90	9.40	4.10	7	9	Finney	25	90	16.50	5.00	7	10	Washington
15	90	9.70	4.20	7	10	Ford	20	90	9.30	3.70	6	9	Wichita
20	90	12.60	5.90	7	10	Franklin	15	90	11.50	6.00	8	11	Wilson
20	90	19.40	5.70	7	10	Geary	20	90	11.60	5.90	8	11	Woodson
20	90	9.60	3.90	7	9	Gove	20	90	12.20	5.90	7	10	Wyandotte
25	90	11.80	4.10	7	10	Graham	KENTUCKY						
15	90	10.30	4.10	6	9	Grant	15(2600)	90	23.00	12.00	6	8	Adair
15	90	9.40	4.10	7	10	Gray	15	90	27.40	13.60	6	8	Allen
10(5000)	90	9.90	3.70	6	9	Greeley	15	90	22.80	10.50	6	8	Anderson
20	90	12.00	5.70	8	11	Greenwood	15	90	326.60	105.20	6	8	Ballard
10(5000)	90	10.60	3.80	6	9	Hamilton	15	90	25.70	13.00	6	8	Barren
15	90	14.10	5.60	8	11	Harper	15	90	28.20	9.80	5	8	Bath
20	90	13.50	5.40	7	11	Harvey	15(2600)	90	40.30	12.90	6	8	Bell
15	90	10.00	4.20	7	9	Haskell	20	90	18.50	8.90	5	7	Boone
20	90	9.60	4.20	7	10	Hodgeman	15	90	26.70	9.90	5	8	Bourbon

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
20	90	22.10	8.80	5	8	Boyd	15	90	22.60	10.80	6	8	Mercer
15	90	22.70	10.80	6	8	Boyle	15	90	24.10	12.50	6	8	Metcalfe
20	90	24.30	9.20	5	8	Bracken	15	90	24.80	12.70	6	8	Monroe
15(2600)	90	27.20	10.40	6	8	Breathitt	15	90	27.90	10.00	5	8	Montgomery
15	90	34.80	14.20	6	8	Breckinridge	15	90	26.30	9.60	5	8	Morgan
15	90	24.70	12.10	6	8	Bullitt	15	90	52.00	19.30	6	8	Muhlenberg
15	90	38.10	15.90	6	8	Butler	15	90	23.00	11.70	6	8	Nelson
15	90	90.60	26.40	6	8	Caldwell	15	90	27.50	9.60	5	8	Nicholas
15	90	110.60	30.40	6	8	Calloway	15	90	43.30	17.50	6	8	Ohio
20	90	19.40	8.90	5	7	Campbell	15	90	21.80	10.70	5	8	Oldham
15	90	278.20	85.20	6	8	Carlisle	15	90	21.10	9.50	5	8	Owen
20	90	19.30	9.60	5	8	Carroll	15(2600)	90	27.20	10.70	6	8	Owsley
20	90	24.10	9.00	5	8	Carter	20	90	22.90	9.20	5	8	Pendleton
15(2600)	90	22.50	11.40	6	8	Casey	20(2500)	90	30.50	11.30	6	8	Perry
15	90	60.30	21.10	6	8	Christian	20(2500)	90	27.90	10.40	6	8	Pike
15	90	26.90	10.10	5	8	Clark	15	90	27.40	10.20	6	8	Powell
15(2600)	90	29.60	11.50	6	8	Clay	15(2600)	90	24.70	11.40	6	8	Pulaski
15(2600)	90	25.00	12.20	6	8	Clinton	15	90	26.00	9.40	5	8	Robertson
15	90	103.00	28.70	6	8	Crittenden	15(2600)	90	24.80	11.00	6	8	Rockcastle
15(2600)	90	24.10	12.30	6	8	Cumberland	15	90	27.30	9.50	5	8	Rowan
15	90	52.60	18.70	6	8	Daviess	15(2600)	90	23.50	11.80	6	8	Russell
15	90	28.90	13.80	6	8	Edmonson	15	90	24.60	9.90	5	8	Scott
15	90	25.50	9.40	5	8	Elliott	15	90	22.00	10.70	5	8	Shelby
15(2600)	90	26.60	10.40	6	8	Estill	15	90	32.60	14.70	6	8	Simpson
15	90	25.10	10.30	5	8	Fayette	15	90	22.60	11.20	6	8	Spencer
15	90	27.40	9.40	5	8	Fleming	15	90	22.60	11.90	6	8	Taylor
15(2600)	90	25.90	9.70	6	8	Floyd	15	90	46.10	18.70	6	8	Todd
15	90	22.80	10.20	5	8	Franklin	15	90	84.00	25.30	6	8	Trigg
15	90	235.00	67.60	7	8	Fulton	20	90	20.40	10.10	5	8	Trimble
20	90	19.00	9.30	5	8	Gallatin	15	90	92.50	26.20	6	8	Union
15(2600)	90	23.40	10.70	6	8	Garrard	15	90	31.50	14.30	6	8	Warren
20	90	21.80	9.30	5	8	Grant	15	90	22.20	11.40	6	8	Washington
15	90	143.00	42.30	6	8	Graves	15(2600)	90	25.30	11.90	6	8	Wayne
15	90	30.30	13.90	6	8	Grayson	15	90	78.00	24.00	6	8	Webster
15	90	23.30	12.20	6	8	Green	15(2600)	90	34.60	12.50	6	8	Whitley
20	90	22.60	8.70	5	8	Greenup	15(2600)	90	27.10	10.20	6	8	Wolfe
15	90	40.80	16.00	6	8	Hancock	15	90	23.60	10.30	6	8	Woodford
15	90	25.70	12.70	6	8	Hardin							
15(2600)	90	40.10	12.70	6	8	Harlan							LOUISIANA
15	90	25.80	9.60	5	8	Harrison	0	105	12.20	5.70	11	12	Acadia
15	90	25.70	12.90	6	8	Hart	0	100	12.60	6.00	10	12	Allen
15	90	70.90	22.00	6	8	Henderson	0	100	14.00	5.90	11	12	Ascension
15	90	21.10	10.20	5	8	Henry	0	115	13.20	5.70	11	12	Assumption
15	90	194.50	57.20	6	8	Hickman	5	95	13.60	6.80	9	11	Avoyelles
15	90	63.30	21.50	6	8	Hopkins	5	98	13.90	6.10	10	12	Beauregard
15(2600)	90	26.20	10.80	6	8	Jackson	5	90	17.90	8.90	8	11	Bienville
15	90	24.70	11.90	6	8	Jefferson	5	90	17.20	8.40	8	11	Bossier
15	90	24.20	10.40	6	8	Jessamine	5	90	16.80	8.20	8	11	Caddo
15(2600)	90	24.90	9.50	6	8	Johnson	0	108	12.70	5.60	11	12	Calcasieu
20	90	19.00	9.00	5	7	Kenton	5	90	17.00	8.70	9	11	Caldwell
20(2500)	90	28.90	11.00	6	8	Knott	0	120	11.70	5.10	11	13	Cameron
15(2600)	90	35.80	12.40	6	8	Knox	5	90	15.80	8.20	9	11	Catahoula
15	90	24.70	12.50	6	8	Larue	5	90	18.50	9.20	8	11	Claiborne
15(2600)	90	27.60	11.50	6	8	Laurel	5	92	15.30	7.90	9	11	Concordia
15	90	23.10	9.10	5	8	Lawrence	5	90	16.20	7.50	9	11	De Soto
15(2600)	90	26.90	10.50	6	8	Lee	0	105	14.50	6.20	10	12	E. Baton Rouge
15(2600)	90	32.20	11.60	6	8	Leslie	5	90	22.90	11.10	8	11	East Carroll
20(2500)	90	34.10	11.70	6	8	Letcher	0	102	14.40	6.60	10	12	East Feliciana
15	90	25.00	9.00	5	8	Lewis	0	98	12.60	6.10	10	12	Evangeline
15(2600)	90	23.00	10.90	6	8	Lincoln	5	90	17.40	8.90	9	11	Franklin
15	90	124.90	36.70	6	8	Livingston	5	90	14.90	7.30	9	11	Grant
15	90	39.80	16.90	6	8	Logan	0	112	12.50	5.60	11	12	Iberia
15	90	104.50	29.10	6	8	Lyon	0	108	14.30	6.00	11	12	Iberville
15	90	161.70	46.40	6	8	McCracken	5	90	17.10	8.60	8	11	Jackson
15(2600)	90	29.00	12.20	6	8	McCreary	0	130	12.80	5.60	12	13	Jefferson
15	90	56.90	19.90	6	8	McLean	0	105	12.30	5.70	11	12	Jefferson Davis
15(2600)	90	25.30	10.40	6	8	Madison	0	107	12.50	5.80	11	12	Lafayette
15(2600)	90	25.90	9.70	6	8	Magoffin	0	130	12.60	5.50	12	13	Lafourche
15	90	22.20	11.50	6	8	Marion	5	90	15.40	7.90	9	11	La Salle
15	90	120.50	34.20	6	8	Marshall	5	90	18.20	9.10	8	11	Lincoln
15(2600)	90	24.50	9.40	6	8	Martin	0	108	14.50	6.20	10	12	Livingston
15	90	25.60	9.10	5	8	Mason	5	90	19.00	9.60	8	11	Madison
15	90	28.40	13.30	6	8	Meade	5	90	20.80	10.30	8	11	Morehouse
15	90	27.70	9.90	6	8	Menifee	5	90	15.70	7.50	9	11	Natchitoches

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
0	126	12.90	5.70	11	13	Orleans							MASSACHUSETTS
5	90	18.50	9.30	8	11	Ouachita	25	115	23.50	6.60	5	7	Barnstable
0	146	11.80	5.10	12	13	Plaquemines	50(900)	90*	25.50	8.80	5	7	Berkshire
0	102	14.00	6.30	10	12	Pointe Coupee	30	110	27.60	8.10	5	7	Bristol
5	93	14.10	7.00	9	11	Rapides	25	118	20.30	6.20	5	7	Dukes
5	90	16.10	7.70	9	11	Red River	50(500)	104	36.50	9.20	5	7	Essex
5	90	18.70	9.50	8	11	Richland	50(900)	90*	25.80	8.80	5	7	Franklin
5	90	16.20	7.10	9	11	Sabine	35	95	26.10	8.60	5	7	Hampden
0	140	12.80	5.60	11	13	St. Bernard	40	93*	25.60	8.70	5	7	Hampshire
0	123	13.10	5.70	11	13	St. Charles	40	100	32.70	8.90	5	7	Middlesex
0	103	14.50	6.60	10	12	St. Helena	25	118	16.80	5.60	5	7	Nantucket
0	115	13.60	5.80	11	12	St. James	40	105	29.70	8.70	5	7	Norfolk
0	115	13.50	5.80	11	12	St. John the Baptist	30	112	27.90	7.90	5	7	Plymouth
0	102	12.70	6.10	10	12	St. Landry	40	105	32.80	8.90	5	7	Suffolk
0	108	12.60	5.70	11	12	St. Martin	50(900)	97	27.10	8.60	5	7	Worcester
0	120	12.30	5.40	11	12	St. Mary							
5	115	14.40	6.20	10	12	St. Tammany							MICHIGAN
0	107	14.50	6.50	10	12	Tangipahoa	50	90	7.30	3.20	4	6	Alcona
5	90	16.90	8.60	9	11	Tensas	70	90	5.90	1.80	4	6	Alger
0	130	12.00	5.20	12	13	Terrebonne	CS	90	10.50	4.70	5	7	Allegan
5	90	19.80	9.70	8	11	Union	50	90	7.30	2.80	4	6	Alpena
0	120	12.00	5.50	11	12	Vermilion	60	90	5.60	2.80	4	6	Antrim
5	94	14.80	6.40	9	11	Vernon	40	90	7.00	3.40	4	6	Arenac
0	108	15.10	6.70	10	12	Washington	70	90	8.60	1.90	4	6	Baraga
5	90	17.50	8.70	8	11	Webster	35	90	10.60	4.40	5	7	Barry
0	105	14.40	6.20	10	12	W. Baton Rouge	35	90	7.60	3.60	4	6	Bay
5	90	23.00	11.20	8	11	West Carroll	CS	90	5.70	2.90	4	6	Benzie
0	100	14.00	6.40	10	12	West Feliciana	CS	90	11.70	5.50	5	7	Berrien
5	90	16.20	8.10	9	11	Winn	25	90	12.70	5.40	5	7	Branch
							25	90	12.00	4.90	5	7	Calhoun
						MAINE	CS	90	11.80	5.60	5	7	Cass
80(600)	92	37.10	10.30	4	6	Androscoggin	60	90	5.60	2.70	4	6	Charlevoix
100(700)	90	27.60	10.00	4	6	Aroostook	60	90	5.90	2.10	4	6	Cheboygan
70(500)	94	36.80	9.80	4	6	Cumberland	70	90	6.30	2.10	4	6	Chippewa
CS	90	32.50	10.20	4	6	Franklin	40	90	6.60	3.30	4	6	Clare
60(500)	91	26.10	8.80	4	6	Hancock	30	90	9.40	4.00	5	7	Clinton
70(500)	91	32.20	9.60	4	6	Kennebec	50	90	5.90	2.90	4	6	Crawford
50(500)	97	25.30	8.70	4	6	Knox	60	90	6.10	2.60	4	6	Delta
50(500)	97	29.60	9.30	4	6	Lincoln	60	90	6.30	2.60	4	6	Dickinson
90(700)	90	38.10	10.70	4	6	Oxford	30	90	11.30	4.50	5	7	Eaton
90(700)	90	27.90	9.30	4	6	Penobscot	CS	90	5.60	2.70	4	6	Emmet
CS	90	29.90	10.00	4	6	Piscataquis	30	90	9.30	4.00	5	7	Genesee
50(500)	99	31.70	9.40	4	6	Sagadahoc	40	90	6.80	3.30	4	6	Gladwin
CS	90	30.00	9.80	4	6	Somerset	60	90	7.20	1.80	4	6	Gogebic
70(500)	93	26.50	9.00	4	6	Waldo	60	90	5.60	2.80	4	6	Grand Traverse
70(500)	90	34.00	8.90	4	6	Washington	35	90	8.20	3.80	5	7	Gratiot
70(500)	96	40.50	10.60	4	6	York	20	90	13.10	5.30	5	7	Hillsdale
							70	90	10.60	2.00	4	6	Houghton
						MARYLAND	35	90	7.80	3.60	4	6	Huron
CS	90	17.60	6.30	5	7	Allegany	25	90	11.30	4.40	5	7	Ingham
25	90	18.10	6.20	7	10	Anne Arundel	35	90	9.20	4.10	5	7	Ionia
25	90	20.70	6.40	7	9	Baltimore	40	90	7.10	3.30	4	6	Iosco
25	90	16.80	6.20	8	10	Calvert	60	90	6.80	2.20	4	6	Iron
25	94	17.60	6.10	7	10	Caroline	40	90	7.40	3.60	5	6	Isabella
30(900)	90	19.20	6.40	6	9	Carroll	25	90	12.20	4.80	5	7	Jackson
25	90	28.20	7.50	7	9	Cecil	30	90	11.40	5.00	5	7	Kalamazoo
25	90	17.70	6.30	8	10	Charles	60	90	5.70	2.80	4	6	Kalkaska
20	96	15.80	6.00	7	10	Dorchester	35	90	8.70	4.10	5	7	Kent
30(900)	90	18.60	6.30	6	9	Frederick	90	90	10.20	1.90	4	6	Keweenaw
CS	90	16.30	6.40	5	7	Garrett	50	90	6.80	3.40	5	7	Lake
25	90	24.10	6.80	7	9	Harford	25	90	9.40	4.00	4	6	Lapeer
25	90	18.80	6.30	7	10	Howard	CS	90	5.60	2.80	4	6	Leelanau
25	90	20.80	6.40	7	10	Kent	20	90	14.60	5.30	5	7	Lenawee
25	90	18.10	6.30	7	10	Montgomery	25	90	11.10	4.20	5	7	Livingston
25	90	17.50	6.20	7	10	Prince George's	70	90	5.50	1.80	4	6	Luce
25	90	18.70	6.20	7	10	Queen Anne's	60	90	5.70	2.00	4	6	Mackinac
20	90	16.70	6.20	8	10	St. Mary's	25	90	11.40	4.20	4	6	Macomb
20	110	13.00	5.60	7	11	Somerset	60	90	6.30	3.20	4	6	Manistee
20	91	16.90	6.10	7	10	Talbot	70	90	6.80	1.80	4	6	Marquette
CS	90	19.00	6.30	5	8	Washington	CS	90	6.90	3.40	5	7	Mason
20	109	13.60	5.60	7	10	Wicomico	40	90	7.10	3.60	5	7	Mecosta
20	115	12.30	5.40	7	10	Worcester	60	90	6.00	2.80	4	6	Menominee
							35	90	7.50	3.60	4	6	Midland
							50	90	6.00	3.10	4	6	Missaukee

S	W	S _s	S _t	I1	I2	County Name	S	W	S _s	S _t	I1	I2	County Name
5	93	16.20	8.20	9	11	Jefferson	15	90	22.80	11.10	8	10	Christian
5	100	16.90	8.20	9	11	Jefferson Davis	20	90	12.60	7.40	6	9	Clark
5	105	17.70	8.30	9	11	Jones	20	90	12.00	6.00	7	10	Clay
5	95	19.50	9.90	8	11	Kemper	20	90	11.50	5.70	7	10	Clinton
10	90	48.00	19.10	7	10	Lafayette	20	90	21.60	10.70	7	10	Cole
5	107	16.60	7.40	9	11	Lamar	20	90	16.10	8.70	7	10	Cooper
5	98	18.90	9.20	8	11	Lauderdale	20	90	40.50	15.50	7	9	Crawford
0	97	16.60	8.10	9	11	Lawrence	20	90	16.40	8.90	8	11	Dade
5	92	19.70	10.50	8	11	Leake	20	90	19.20	9.90	7	10	Dallas
10	90	33.40	14.70	7	10	Lee	20	90	10.30	5.60	7	10	Daviess
10	90	31.90	14.00	8	10	Leflore	20	90	10.80	5.50	7	10	Dekalb
0	96	16.30	8.10	9	11	Lincoln	20	90	40.50	15.90	7	10	Dent
10	90	24.40	11.90	7	10	Lowndes	15	90	27.30	12.90	7	10	Douglas
5	90	20.70	10.50	8	11	Madison	10	90	237.60	76.20	7	9	Dunklin
0	105	16.40	7.60	9	11	Marion	20	90	41.40	15.10	7	9	Franklin
10	90	61.20	21.70	7	10	Marshall	20	90	27.90	12.60	7	9	Gasconade
10	90	26.70	13.00	7	10	Monroe	20	90	9.90	5.20	7	10	Gentry
10	90	28.30	13.50	8	10	Montgomery	20	90	20.60	10.40	8	10	Greene
5	93	19.20	10.30	8	11	Neshoba	20	90	9.80	5.70	7	10	Grundy
5	96	18.60	9.40	8	11	Newton	20	90	9.40	5.30	7	10	Harrison
5	92	21.80	10.90	8	10	Noxubee	20	90	13.10	7.80	7	10	Henry
10	90	24.60	12.20	7	10	Oktibbeha	20	90	17.00	9.10	7	10	Hickory
10	90	53.30	20.00	7	10	Panola	20	90	12.40	5.30	7	10	Holt
5	115	16.10	6.80	10	12	Pearl River	20	90	15.50	8.60	7	10	Howard
5	112	16.40	7.30	9	11	Perry	15	90	43.00	17.40	7	10	Howell
0	101	15.10	7.30	9	11	Pike	20	90	69.10	21.90	7	9	Iron
10	90	36.80	15.90	7	10	Pontotoc	20	90	12.00	6.10	7	10	Jackson
10	90	39.40	17.00	7	9	Prentiss	15	90	14.70	8.40	8	11	Jasper
10	90	53.90	20.20	7	10	Quitman	20	90	59.80	19.20	6	9	Jefferson
5	94	18.70	9.40	8	11	Rankin	20	90	12.50	7.40	7	10	Johnson
5	94	18.50	9.40	8	11	Scott	20	90	12.30	7.30	7	9	Knox
5	90	24.50	11.70	8	11	Sharkey	20	90	23.30	11.30	7	10	Laclede
5	96	17.80	8.90	9	11	Simpson	20	90	11.90	6.40	7	10	Lafayette
5	97	17.90	8.90	9	11	Smith	15	90	17.60	9.30	8	11	Lawrence
5	120	16.00	6.70	10	12	Stone	20	90	14.50	8.10	6	9	Lewis
10	90	32.40	13.90	8	10	Sunflower	20	90	30.80	13.00	6	9	Lincoln
10	90	43.30	17.90	7	10	Tallahatchie	20	90	10.90	6.30	7	10	Linn
10	90	66.70	23.40	7	10	Tate	20	90	10.70	6.10	7	10	Livingston
10	90	47.90	19.20	7	9	Tippah	15	90	16.30	8.80	8	11	McDonald
10	90	37.40	16.30	7	9	Tishomingo	20	90	12.80	7.80	7	10	Macon
10	90	88.50	27.30	7	10	Tunica	15	90	86.50	25.10	7	9	Madison
10	90	41.60	17.80	7	10	Union	20	90	26.90	12.50	7	10	Maries
0	104	15.60	7.30	9	11	Walthall	20	90	17.40	9.00	6	9	Marion
5	90	19.20	9.60	8	11	Warren	20	90	8.90	5.40	7	10	Mercer
10	90	31.20	13.60	8	11	Washington	20	90	21.50	10.80	7	10	Miller
5	107	18.00	8.20	9	11	Wayne	15	90	339.50	105.60	6	9	Mississippi
10	90	28.10	13.40	7	10	Webster	20	90	18.40	9.50	7	10	Moniteau
0	107	14.30	7.00	9	11	Wilkinson	20	90	16.80	9.00	7	9	Monroe
5	92	22.10	11.40	8	10	Winston	20	90	24.50	11.50	7	9	Montgomery
10	90	39.30	16.60	7	10	Yalobusha	20	90	17.80	9.30	7	10	Morgan
5	90	23.70	11.50	8	11	Yazoo	15	90	338.80	111.10	7	9	New Madrid
							15	90	15.40	8.60	8	11	Newton
						MISSOURI	20	90	11.00	5.00	7	10	Nodaway
20	90	11.20	6.50	7	10	Adair	15	90	58.40	20.30	7	10	Oregon
20	90	11.60	5.30	7	10	Andrew	20	90	25.60	12.00	7	10	Osage
20	90	12.50	4.90	7	10	Atchison	15	90	34.00	14.40	7	10	Ozark
20	90	18.80	9.70	7	9	Audrain	10	90	314.20	106.10	7	9	Pemiscot
15	90	18.40	9.60	8	11	Barry	15	90	99.00	27.70	6	9	Perry
15	90	13.70	8.00	8	11	Barton	20	90	14.80	8.40	7	10	Pettis
20	90	12.30	6.90	7	10	Bates	20	90	31.80	13.60	7	10	Phelps
20	90	15.60	8.70	7	10	Benton	20	90	23.30	11.00	6	9	Pike
15	90	114.70	32.60	7	9	Bollinger	20	90	12.30	5.70	7	10	Platte
20	90	18.00	9.30	7	10	Boone	20	90	17.70	9.30	7	10	Polk
20	90	12.00	5.40	7	10	Buchanan	20	90	26.80	12.60	7	10	Pulaski
15	90	115.20	32.30	7	9	Butler	20	90	9.50	5.80	7	10	Putnam
20	90	11.00	5.80	7	10	Caldwell	20	90	18.90	9.60	6	9	Ralls
20	90	21.20	10.60	7	10	Callaway	20	90	14.30	8.20	7	10	Randolph
20	90	20.00	10.30	7	10	Camden	20	90	11.70	6.20	7	10	Ray
15	90	133.60	40.40	6	9	Cape Girardeau	15	90	61.50	20.70	7	9	Reynolds
20	90	11.90	6.70	7	10	Carroll	15	90	89.30	25.90	7	10	Ripley
15	90	66.40	21.90	7	10	Carter	20	90	46.70	16.00	6	9	St. Charles
20	90	12.10	6.40	7	10	Cass	20	90	14.50	8.30	7	10	St. Clair
20	90	15.40	8.50	7	10	Cedar	20	90	84.50	23.80	6	9	Ste. Genevieve
20	90	12.60	7.60	7	10	Chariton	20	90	74.00	22.20	7	9	St. Francois

S	W	S _s	S _t	I1	I2	County Name	S	W	S _s	S _t	I1	I2	County Name
20	90	56.30	17.90	6	9	St. Louis	CS	90	20.50	7.30	4	6	Wheatland
20	90	13.00	7.70	7	10	Saline	30(3700)	90	8.50	2.90	4	6	Wibaux
20	90	10.40	6.10	7	9	Schuyler	20(3600)	90	12.80	4.90	4	6	Yellowstone
20	90	11.40	6.60	7	9	Scotland							
15	90	242.60	75.50	6	9	Scott							NEBRASKA
15	90	53.70	19.20	7	10	Shannon	25	90	11.60	4.00	7	10	Adams
20	90	14.70	8.30	7	9	Shelby	30	90	12.70	4.00	7	10	Antelope
15	90	194.70	60.20	7	9	Stoddard	25	90	9.60	3.50	5	8	Arthur
15	90	21.30	10.70	8	11	Stone	20	90	12.60	4.30	5	7	Banner
20	90	10.10	6.00	7	10	Sullivan	25	90	11.50	3.40	6	9	Blaine
15	90	25.30	12.10	8	10	Taney	25	90	13.20	4.10	7	10	Boone
20	90	34.90	14.30	7	10	Texas	20	90	12.40	4.10	5	7	Box Butte
20	90	12.60	7.40	8	10	Vernon	35	90	16.50	3.80	6	9	Boyd
20	90	31.50	13.10	7	9	Warren	30	90	13.20	3.60	6	9	Brown
20	90	58.50	19.40	7	9	Washington	25	90	10.70	3.90	7	10	Buffalo
15	90	96.80	27.70	7	9	Wayne	25	90	11.00	4.00	7	10	Burt
20	90	23.30	11.30	7	10	Webster	25	90	17.00	4.50	7	10	Butler
20	90	9.50	4.90	7	10	Worth	25	90	12.40	4.40	7	10	Cass
20	90	26.80	12.60	7	10	Wright	35	90	13.00	4.00	7	10	Cedar
							25	90	8.00	3.30	5	9	Chase
							30	90	13.50	3.70	5	8	Cherry
							20	90	9.90	3.90	5	8	Cheyenne
							25	90	12.20	4.10	7	10	Clay
							25	90	15.60	4.30	7	10	Colfax
							25	90	12.00	4.00	7	10	Cuming
							25	90	10.90	3.50	6	9	Custer
10(5000)	90*	96.70	25.30	4	6	Beaverhead	30	90	10.00	3.80	7	10	Dakota
25(4800)	90	13.70	4.20	4	6	Big Horn	20	90	16.90	4.40	5	7	Dawes
CS	90	10.80	3.00	4	6	Blaine	25	90	9.90	3.60	5	10	Dawson
CS	90	111.30	29.30	4	6	Broadwater	25	90	8.70	3.60	5	8	Deuel
25(4100)	90	26.00	8.90	4	6	Carbon	30	90	11.00	3.80	7	10	Dixon
30(3700)	90	9.40	3.50	4	6	Carter	25	90	13.80	4.30	7	10	Dodge
15(3400)	90*	24.90	7.90	4	6	Cascade	25	90	11.90	4.20	7	10	Douglas
CS	90*	16.60	5.30	4	6	Chouteau	25	90	8.10	3.30	5	9	Dundy
25(3000)	90	10.70	3.60	4	6	Custer	25	90	14.50	4.40	7	10	Fillmore
25(3000)	90	22.20	4.10	4	6	Daniels	25	90	10.20	3.90	7	10	Franklin
25(3000)	90	10.30	3.10	4	6	Dawson	25	90	9.00	3.20	6	9	Frontier
CS	90	42.60	13.30	4	6	Deer Lodge	25	90	10.30	3.80	7	10	Furnas
30(3700)	90	8.20	3.10	4	6	Fallon	25	90	16.80	5.00	7	10	Gage
CS	90	12.90	4.50	4	6	Fergus	20	90	9.30	3.60	5	8	Garden
CS	90*	114.30	31.30	4	6	Flathead	25	90	12.50	3.70	6	10	Garfield
CS	90	99.20	26.30	4	6	Gallatin	25	90	9.70	3.50	7	10	Gosper
25(3000)	90	16.30	3.80	4	6	Garfield	25	90	11.50	3.70	5	8	Grant
CS	90	39.90	9.00	4	6	Glacier	25	90	14.00	4.10	7	10	Greeley
25(4100)	90	15.50	5.70	4	6	Golden Valley	25	90	12.60	4.10	7	10	Hall
CS	90	42.70	13.00	4	6	Granite	25	90	13.40	4.20	7	10	Hamilton
CS	90	11.50	3.20	4	6	Hill	25	90	10.30	3.90	7	10	Harlan
CS	90	87.70	22.20	4	6	Jefferson	25	90	8.20	3.10	6	9	Hayes
CS	90	18.40	6.10	4	6	Judith Basin	25	90	8.30	3.10	6	9	Hitchcock
CS	90*	124.10	42.70	4	6	Lake	35	90	13.90	3.70	6	9	Holt
CS	90	86.10	21.50	4	6	Lewis and Clark	25	90	11.30	3.50	5	9	Hooker
CS	90*	21.70	5.00	4	6	Liberty	25	90	13.70	4.10	7	10	Howard
CS	90*	41.40	12.60	4	6	Lincoln	25	90	15.50	4.80	7	10	Jefferson
30(2600)	90	15.90	3.80	4	6	McCone	25	90	16.00	5.00	7	10	Johnson
CS	90*	116.30	32.00	4	6	Madison	25	90	10.40	3.90	7	10	Kearney
CS	90	63.80	18.80	4	6	Meagher	25	90	8.30	3.30	5	9	Keith
CS	90*	42.40	13.70	4	6	Mineral	30	90	14.30	3.70	6	9	Keya Paha
20(3300)	90*	60.10	18.40	4	6	Missoula	20	90	11.90	4.20	4	7	Kimball
25(4100)	90	11.40	4.00	4	6	Musselshell	35	90	14.70	4.00	7	10	Knox
CS	90	69.40	20.80	4	6	Park	25	90	17.60	4.90	7	10	Lancaster
25(3000)	90	10.90	3.50	4	6	Petroleum	25	90	8.50	3.20	6	9	Lincoln
CS	90	12.50	3.40	4	6	Phillips	25	90	9.50	3.20	6	9	Logan
CS	90*	28.80	8.20	4	6	Pondera	25	90	12.00	3.60	6	9	Loup
30(3700)	90	13.60	4.10	4	6	Powder River	25	90	9.50	3.30	5	9	McPherson
CS	90	56.40	16.00	4	6	Powell	25	90	12.70	4.10	7	10	Madison
25(3000)	90	10.40	3.40	4	6	Prairie	25	90	14.20	4.20	7	10	Merrick
CS	90*	32.30	9.60	4	6	Ravalli	20	90	11.40	4.00	5	8	Morrill
25(3000)	90	12.00	3.10	4	6	Richland	25	90	14.20	4.10	7	10	Nance
30(2600)	90	19.90	4.10	4	6	Roosevelt	20	90	14.10	5.00	7	10	Nemaha
20(3600)	90	11.90	3.80	4	6	Rosebud	25	90	11.60	4.10	7	10	Nuckolls
CS	90*	48.10	14.10	4	6	Sanders	25	90	13.10	4.70	7	10	Otoe
30(2600)	90	24.30	4.20	4	6	Sheridan	25	90	16.60	5.20	7	10	Pawnee
CS	90	56.90	16.90	4	6	Silver Bow	25	90	8.10	3.30	7	10	Perkins
25(4100)	90	19.20	7.30	4	6	Stillwater	25	90	10.00	3.80	7	10	Phelps
25(4100)	90	32.30	10.60	4	6	Sweet Grass							
15(3400)	90	36.10	10.50	4	6	Teton							
15(3400)	90*	33.40	7.40	4	6	Toole							
20(3600)	90	11.80	3.80	4	6	Treasure							
25(3000)	90	21.70	4.10	4	6	Valley							

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
30	90	12.50	4.00	7	10	Pierce	30	91	38.80	9.00	6	8	Somerset
25	90	15.40	4.20	7	10	Platte	CS	90	33.90	8.80	6	8	Sussex
25	90	16.10	4.30	7	10	Polk	25	99	41.80	9.30	6	8	Union
25	90	8.80	3.20	6	9	Red Willow	CS	90	31.70	8.50	6	8	Warren
20	90	14.40	5.20	7	10	Richardson							
30	90	13.70	3.60	6	9	Rock							
25	90	17.00	4.90	7	10	Saline	5(5000)	90*	61.90	18.40	4	6	Bernalillo
25	90	12.60	4.30	7	10	Sarpy	5(5000)	90	29.30	8.60	4	6	Catron
25	90	16.40	4.60	7	10	Saunders	5(3200)	90	11.60	3.90	4	7	Chaves
20(4500)	90	13.30	4.40	4	7	Scotts Bluff	5(5000)	90	41.20	11.00	4	6	Cibola
25	90	17.90	4.80	7	10	Seward	CS	90	18.80	6.10	4	7	Colfax
20	90	16.00	4.10	5	7	Sheridan	15	90	11.30	3.60	5	8	Curry
25	90	12.60	4.00	7	10	Sherman	5(3200)	90	12.00	4.00	4	7	De Baca
15(5500)	90	18.50	5.20	4	7	Sioux	0(3500)	90	33.00	9.50	4	6	Dona Ana
25	90	12.40	4.00	7	10	Stanton	5(3200)	90	16.70	4.60	4	7	Eddy
25	90	13.10	4.40	7	10	Thayer	5(5000)	90	30.00	8.60	4	6	Grant
25	90	11.10	3.40	6	9	Thomas	15(4800)	90*	16.50	5.30	4	7	Guadalupe
25	90	11.30	3.90	7	10	Thurston	10(5000)	90	16.10	4.80	5	8	Harding
25	90	13.30	4.00	7	10	Valley	10(5000)	90	29.60	8.60	4	6	Hidalgo
25	90	11.60	4.10	7	10	Washington	5(3200)	90	16.30	3.80	5	8	Lea
25	90	11.90	3.90	7	10	Wayne	CS	90*	28.50	8.70	4	6	Lincoln
25	90	10.60	4.00	7	10	Webster	CS	90*	59.40	18.80	4	6	Los Alamos
25	90	13.20	4.00	7	10	Wheeler	0(3500)	90	28.30	8.30	4	6	Luna
25	90	15.90	4.40	7	10	York	5(5000)	90	29.70	6.40	4	6	McKinley
							10(5000)	90	33.40	10.00	4	7	Mora
							0(3500)	90*	34.90	9.60	4	6	Otero
						NEVADA							
						Churchill	15(4800)	90	17.30	4.30	5	8	Quay
5(4000)	90	100.90	28.90	4	6	Clark	CS	90*	37.40	10.20	4	6	Rio Arriba
0(3000)	90	64.20	19.40	4	6	Demsby	5(3200)	90	10.50	3.50	5	8	Roosevelt
CS	90	162.00	66.60	4	6	Douglas	CS	90	62.30	19.00	4	6	Sandoval
CS	90	162.00	66.60	4	6	Elko	5(5000)	90	24.00	6.30	4	6	San Juan
20(5400)	90	56.90	19.80	4	6	Esmeralda	10(5000)	90*	30.30	9.10	4	7	San Miguel
5(4000)	90	88.80	25.80	4	6	Eureka	CS	90*	47.10	14.40	4	6	Santa Fe
CS	90	62.30	19.80	4	6	Humboldt	5(5000)	90	30.20	8.90	4	6	Sierra
5(4000)	90	88.40	24.80	4	6	Lander	15(6000)	90	62.60	18.50	4	6	Socorro
5(4000)	90	100.00	29.70	4	6	Lincoln	CS	90	41.70	13.10	4	7	Taos
0(2000)	90	50.90	14.40	4	6	Lyon	10(5000)	90*	40.70	12.30	4	6	Torrance
5(4000)	90	129.20	48.50	4	6	Mineral	10(5000)	90	14.30	4.20	5	8	Union
5(4000)	90	155.70	60.90	4	6	Nye	5(5000)	90	63.70	18.80	4	6	Valencia
5(4000)	90*	87.00	24.30	4	6	Pershing							
5(4000)	90	66.40	21.30	4	6	Storey							
5(4000)	90	131.20	49.80	4	6	Washoe	40	90	27.10	9.00	5	7	NEW YORK
15(4400)	90*	136.00	48.70	4	6	White Pine	CS	90	20.20	6.20	4	6	Albany
15(6400)	90	43.30	13.90	4	6		25	102	42.40	9.40	4	6	Allegany
						NEW HAMPSHIRE	CS	90	18.40	7.30	4	6	Bronx
						Belknap	CS	90	20.60	6.00	4	6	Broome
80(600)	90	44.80	11.60	4	6	Carroll	40(1000)	90	18.90	7.40	4	6	Cattaraugus
90(700)	90	43.00	11.50	4	6	Cheshire	CS	90	17.80	5.60	4	6	Cayuga
CS	90*	28.70	9.30	4	6	Coos	CS	90	17.30	6.40	4	6	Chautauqua
CS	90*	35.00	11.10	4	6	Grafton	CS	90	19.20	7.80	4	6	Chemung
CS	90*	36.70	11.30	4	6	Hillsborough	50(700)	90	56.60	13.90	4	6	Chenango
60(500)	93	36.80	9.50	4	6	Merrimack	35	90*	25.80	8.70	5	7	Clinton
70(500)	90	42.00	11.00	4	6	Rockingham	CS	90	18.30	7.30	4	6	Columbia
50(500)	97	40.50	10.10	4	6	Strafford	CS	90	22.20	8.20	5	7	Cortland
60(500)	95	41.00	10.50	4	6	Sullivan	35	90*	29.00	8.80	5	8	Delaware
CS	90*	35.60	10.30	4	6		CS	90	31.60	6.90	4	6	Dutchess
						NEW JERSEY	CS	90	45.40	12.80	4	6	Erie
						Atlantic	CS	90	73.80	16.40	4	6	Essex
20	110	22.90	6.40	7	9	Bergen	50(700)	90	28.70	9.30	4	6	Franklin
25	100	42.60	9.50	6	8	Burlington	CS	90	31.70	7.50	4	6	Fulton
20	100	32.00	8.10	6	9	Camden	CS	90	25.70	8.60	5	7	Genesee
20	94	32.00	8.00	6	9	Cape May	CS	90	36.90	10.50	4	6	Greene
20	112	17.70	5.90	7	9	Cumberland	CS	90	26.00	8.90	4	6	Hamilton
20	100	25.50	6.80	7	9	Essex	CS	90	26.80	9.10	4	6	Herkimer
25	100	42.20	9.40	6	8	Gloucester	20	108	41.70	9.20	6	8	Jefferson
20	94	31.20	7.90	6	9	Hudson	CS	90	28.70	9.40	4	6	Kings
25	102	42.30	9.40	6	8	Hunterdon	CS	90	27.50	7.30	4	6	Lewis
CS	90	36.10	8.70	6	8	Mercer	CS	90	21.70	8.30	4	6	Livingston
30	95	35.30	8.50	6	8	Middlesex	40(1000)	90	24.30	7.20	4	6	Madison
25	99	39.50	9.00	6	8	Monmouth	40	90	28.30	9.20	4	6	Monroe
25	109	36.80	8.60	6	8	Morris	25	112	40.00	9.10	6	8	Montgomery
CS	90	40.10	9.20	6	8	Ocean	20	102	42.30	9.40	6	6	Nassau
20	110	28.40	7.60	6	9	Passaic	CS	90	30.60	7.00	4	6	New York
30	92	42.10	9.40	6	8	Salem	CS	90	25.10	8.80	4	6	Niagara
20	91	28.20	7.40	7	9								Oneida

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
CS	90	19.40	7.80	4	6	Onondaga	15(2600)	90*	48.80	14.10	7	9	Haywood
35(1000)	90	22.10	7.10	4	6	Ontario	15(2600)	90	42.10	13.80	7	9	Henderson
CS	90*	33.70	8.90	5	8	Orange	10	95	15.50	7.10	8	11	Hertford
CS	90	27.50	7.10	4	6	Orleans	10	96	34.30	13.90	8	11	Hoke
CS	90	19.40	7.80	4	6	Oswego	10	121	13.50	6.80	9	11	Hyde
CS	90	24.10	8.50	4	6	Otsego	15	90	33.00	12.80	6	9	Iredell
30	92*	35.70	9.10	5	8	Putnam	15(2600)	90*	49.90	14.10	7	9	Jackson
20	110	41.30	9.20	6	8	Queens	15	96	22.00	10.30	8	11	Johnston
40	90*	27.40	9.10	5	7	Rensselaer	10	115	18.90	9.10	9	11	Jones
20	102	41.90	9.30	4	8	Richmond	15	92	26.10	12.00	7	10	Lee
30	93*	41.10	9.40	6	8	Rockland	10	106	19.10	9.20	9	11	Lenoir
CS	90	54.70	13.40	4	6	St. Lawrence	15	90	35.20	13.40	6	9	Lincoln
50(700)	90	29.70	9.40	4	6	Saratoga	15(2600)	90	41.00	13.60	6	9	McDowell
40	90	28.10	9.20	4	6	Schenectady	15(2600)	90*	47.50	14.00	7	9	Macon
CS	90	26.70	8.90	5	7	Schoharie	15(2600)	90*	48.00	13.90	6	9	Madison
35(1000)	90	17.90	6.60	4	6	Schuyler	10	102	15.90	7.80	9	11	Martin
35(1000)	90	18.70	7.00	4	6	Seneca	10	90	35.10	13.70	6	9	Mecklenburg
35(1000)	90	18.60	6.40	4	6	Steuben	15(2600)	90*	43.50	13.60	6	9	Mitchell
30	116	24.50	7.40	6	8	Suffolk	10	90	29.90	13.20	7	10	Montgomery
CS	90	26.10	8.30	5	8	Sullivan	10	93	28.10	12.80	7	10	Moore
CS	90	17.80	6.90	4	6	Tioga	15	94	18.10	8.90	8	11	Nash
CS	90	17.90	6.90	4	6	Tompkins	10	129	32.00	13.00	9	11	New Hanover
CS	90*	26.70	8.60	5	8	Ulster	15	92	16.90	7.80	8	11	Northampton
CS	90	35.50	10.40	4	6	Warren	10	122	21.70	9.70	9	11	Onslow
40	90	32.90	9.90	4	6	Washington	15	90	21.60	10.00	7	10	Orange
40(1000)	90	19.70	7.20	4	6	Wayne	10	121	16.50	8.00	9	11	Pamlico
30	96*	41.70	9.40	6	8	Westchester	10	108	12.80	6.20	8	11	Pasquotank
CS	90	29.80	7.30	4	6	Wyoming	10	120	27.70	12.10	9	11	Pender
35(1000)	90	19.20	6.90	4	6	Yates	10	105	13.70	6.40	8	11	Perquimans
							20	90	20.10	9.40	7	10	Person
							10	103	17.30	8.50	9	11	Pitt
						NORTH CAROLINA							
15	90	23.00	10.50	7	10	Alamance	15(2600)	90	40.40	13.80	7	9	Polk
15	90	36.40	12.90	6	9	Alexander	15	90	26.60	12.10	7	10	Randolph
20(2500)	90*	39.10	12.50	6	8	Alleghany	10	94	38.30	14.80	7	10	Richmond
10	93	38.40	14.70	7	10	Anson	10	103	40.60	15.80	8	11	Robeson
20(2500)	90*	40.70	12.90	6	8	Ashe	20	90	24.60	10.40	7	9	Rockingham
15(2600)	90*	42.40	13.40	6	9	Avery	15	90	29.50	12.70	6	9	Rowan
10	109	16.60	8.10	9	11	Beaufort	15(2600)	90	39.20	13.60	6	9	Rutherford
10	100	15.40	7.50	8	11	Bertie	10	102	26.60	12.00	8	11	Sampson
10	108	35.30	13.90	8	11	Bladen	10	97	40.70	15.90	8	10	Scotland
10	131	36.10	13.80	9	11	Brunswick	10	90	31.50	13.30	7	10	Stanly
15(2600)	90*	44.50	13.90	6	9	Buncombe	20	90	27.70	11.20	6	9	Stokes
15(2600)	90	39.10	13.40	6	9	Burke	20(2500)	90	34.80	12.10	6	9	Surry
10	90	32.30	13.30	6	9	Cabarrus	10(1800)	90*	53.40	14.30	7	9	Swain
15(2600)	90	39.20	13.20	6	9	Caldwell	15(2600)	90	43.30	13.90	7	9	Transylvania
10	109	12.60	6.10	8	11	Camden	10	115	12.70	6.30	9	11	Tyrrell
10	132	16.40	8.10	9	11	Carteret	10	90	38.40	14.50	7	10	Union
20	90	21.80	9.60	7	10	Caswell	15	90	18.70	9.00	8	10	Vance
15	90	35.30	13.10	6	9	Catawba	15	93	21.30	10.10	8	11	Wake
15	90	24.10	11.20	7	10	Chatham	15	90	18.40	8.80	8	11	Warren
10(1800)	90*	51.10	14.10	7	9	Cherokee	10	107	14.90	7.20	9	11	Washington
10	103	14.30	6.80	8	11	Chowan	20(2500)	90*	41.50	13.20	6	9	Watauga
10(1800)	90	46.80	13.90	7	9	Clay	10	101	20.70	9.70	8	11	Wayne
15	90	37.00	13.60	6	9	Cleveland	20(2500)	90	37.70	12.80	6	9	Wilkes
10	114	42.50	16.60	9	11	Columbus	15	97	18.60	9.10	8	11	Wilson
10	115	17.70	8.60	9	11	Craven	15	90	32.10	12.20	6	9	Yadkin
10	98	29.50	13.10	8	11	Cumberland	15(2600)	90*	44.20	13.70	6	9	Yancey
10	114	12.20	5.90	8	11	Currituck							
10	123	11.00	5.70	9	11	Dare							
15	90	27.90	12.20	6	9	Davidson	CS	90	7.30	2.70	4	7	Adams
15	90	29.80	12.40	6	9	Davie	40	90	6.20	1.90	5	7	Barnes
10	109	24.40	11.00	9	11	Duplin	40	90	5.10	1.70	4	6	Benson
15	90	21.00	9.90	7	10	Durham	30(2600)	90	7.80	2.70	4	6	Billings
15	96	17.20	8.40	8	11	Edgecombe	50	90	5.40	1.70	4	6	Bottineau
15	90	27.60	11.70	6	9	Forsyth	35	90	7.60	2.80	4	6	Bowman
15	92	18.70	9.20	8	11	Franklin	35	90	8.90	2.40	4	6	Burke
10	90	35.90	13.70	6	9	Gaston	35	90	6.60	2.30	4	7	Burleigh
10	99	14.90	6.80	8	11	Gates	50	90	7.30	1.90	5	7	Cass
10(1800)	90*	54.80	14.40	7	9	Graham	60	90	4.60	1.40	4	6	Cavalier
15	90	19.00	9.20	7	10	Granville	40	90	7.80	2.30	5	7	Dickey
10	102	18.70	9.10	9	11	Greene	35	90	16.70	3.30	4	6	Divide
15	90	25.00	11.10	7	10	Guilford	CS	90	7.50	2.60	4	6	Dunn
15	93	17.30	8.10	8	11	Halifax	40	90	5.30	1.80	4	7	Eddy
15	95	25.30	11.70	8	11	Harnett	50	90	7.30	2.40	5	7	Emmons

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
40	90	5.40	1.80	4	7	Foster	20	90	17.30	5.90	5	7	Henry
30(2600)	90	8.30	2.80	4	6	Golden Valley	20	90	18.90	8.20	5	7	Highland
60	90	5.40	1.60	4	7	Grand Forks	25	90	16.40	6.90	5	7	Hocking
40	90	6.90	2.50	4	7	Grant	20	90	14.60	5.90	5	7	Holmes
40	90	5.50	1.80	4	7	Griggs	20	90	16.90	5.70	5	7	Huron
CS	90	6.90	2.60	4	7	Hettinger	20	90	18.60	7.90	5	7	Jackson
35	90	6.20	2.10	5	7	Kidder	25	90	12.60	5.80	5	7	Jefferson
40	90	7.20	2.20	5	7	La Moure	20	90	15.20	6.10	5	7	Knox
40	90	6.80	2.20	5	7	Logan	CS	90	21.90	5.70	4	6	Lake
40	90	5.40	1.80	4	6	McHenry	20	90	22.00	8.70	5	7	Lawrence
50	90	7.60	2.40	5	7	McIntosh	20	90	14.80	6.20	5	7	Licking
30(2600)	90	10.40	2.80	4	6	McKenzie	20	90	26.90	7.70	5	7	Logan
35	90	6.10	2.10	4	7	McLean	20	90	18.00	5.70	5	6	Lorain
CS	90	6.30	2.20	4	7	Mercer	20	90	17.20	5.60	5	7	Lucas
35	90	6.60	2.30	4	7	Morton	20	90	18.60	7.30	5	7	Madison
35	90	8.80	2.50	4	6	Mountrail	20	90	15.70	5.60	4	6	Mahoning
50	90	5.10	1.60	4	7	Nelson	20	90	18.30	6.30	5	7	Marion
35	90	6.30	2.30	4	7	Oliver	20	90	18.30	5.80	5	6	Medina
60	90	4.60	1.30	4	6	Pembina	25	90	18.00	7.60	5	7	Meigs
40	90	5.20	1.70	4	6	Pierce	20	90	28.20	8.00	5	7	Mercer
50	90	5.10	1.70	4	6	Ramsey	20	90	26.90	8.20	5	7	Miami
40	90	7.50	2.10	5	8	Ransom	20	90	13.50	6.20	5	7	Monroe
40	90	7.00	2.00	4	6	Renville	20	90	22.10	8.10	5	7	Montgomery
50	90	9.00	2.30	5	8	Richland	25	90	15.20	6.40	5	7	Morgan
50	90	4.90	1.60	4	6	Rolette	20	90	16.70	6.10	5	7	Morrow
40	90	8.20	2.30	5	8	Sargent	25	90	14.30	6.20	5	7	Muskingum
35	90	5.60	1.90	4	7	Sheridan	20	90	14.10	6.30	5	7	Noble
50	90	7.70	2.50	5	7	Sioux	20	90	16.90	5.60	5	7	Ottawa
35	90	7.40	2.80	4	6	Slope	20	90	18.40	6.30	5	7	Paulding
30(2600)	90	7.20	2.60	4	7	Stark	25	90	15.50	6.50	5	7	Perry
50	90	5.50	1.70	4	7	Steele	20	90	16.80	7.10	5	7	Pickaway
40	90	6.00	1.90	5	7	Stutsman	20	90	18.60	8.00	5	7	Pike
60	90	4.90	1.60	4	6	Towner	20	90	18.80	5.80	4	6	Portage
50	90	5.90	1.70	4	7	Traill	20	90	19.80	8.30	5	7	Preble
60	90	4.90	1.40	4	6	Walsh	20	90	22.10	6.50	5	7	Putnam
35	90	6.50	2.00	4	6	Ward	20	90	16.20	5.90	5	7	Richland
40	90	5.40	1.80	4	7	Wells	20	90	17.80	7.60	5	7	Ross
30(2600)	90	13.90	3.20	4	6	Williams	20	90	17.80	5.80	5	7	Sandusky
							20	90	22.20	8.60	6	7	Scioto
						OHIO	20	90	18.40	6.00	5	7	Seneca
20	90	23.70	8.80	5	7	Adams	20	90	30.70	8.30	5	7	Shelby
20	90	27.40	7.50	5	7	Allen	20	90	15.90	5.80	5	6	Stark
20	90	16.30	5.90	5	7	Ashland	20	90	18.50	5.80	5	6	Summit
CS	90	19.20	5.60	4	6	Ashtabula	25	90	17.60	5.60	4	6	Trumbull
25	90	17.00	7.10	5	7	Athens	25	90	13.60	5.80	5	7	Tuscarawas
20	90	31.10	8.00	5	7	Auglaize	20	90	19.70	6.90	5	7	Union
20	90	12.70	5.90	5	7	Belmont	20	90	23.50	7.10	5	7	Van Wert
20	90	22.60	8.90	5	7	Brown	25	90	17.70	7.50	5	7	Vinton
20	90	18.30	8.50	5	7	Butler	20	90	18.90	8.30	5	7	Warren
25	90	13.40	5.70	5	7	Carroll	20	90	15.50	6.60	5	7	Washington
20	90	24.70	7.70	5	7	Champaign	20	90	16.10	5.80	5	7	Wayne
20	90	22.80	7.80	5	7	Clark	20	90	15.70	5.80	5	7	Williams
20	90	19.30	8.70	5	7	Clermont	20	90	18.30	5.90	5	7	Wood
20	90	18.80	8.00	5	7	Clinton	20	90	19.10	6.30	5	7	Wyandot
25	90	13.90	5.60	5	6	Columbiana							
25	90	13.60	6.00	5	7	Coshocton							OKLAHOMA
20	90	17.70	6.10	5	7	Crawford	10	90	18.70	9.10	8	11	Adair
20	90	20.70	5.80	4	6	Cuyahoga	15	90	15.80	5.80	8	11	Alfalfa
20	90	25.50	8.30	5	7	Darke	10	90	20.60	7.90	8	11	Atoka
20	90	17.70	6.10	5	7	Defiance	20	90	11.80	4.60	7	10	Beaver
20	90	17.50	6.40	5	7	Delaware	15	90	20.50	6.20	7	11	Beckham
20	90	16.70	5.60	5	7	Erie	10	90	27.50	7.50	8	11	Blaine
25	90	16.00	6.70	5	7	Fairfield	5	90	19.50	7.60	8	11	Bryan
20	90	18.00	7.60	5	7	Fayette	10	90	38.50	9.20	8	11	Caddo
20	90	16.60	6.60	5	7	Franklin	10	90	37.10	8.70	8	11	Canadian
20	90	16.40	5.70	5	7	Fulton	10	90	23.80	7.70	8	11	Carter
20	90	18.90	8.10	5	7	Gallia	10	90	18.10	8.60	8	11	Cherokee
25	90	22.20	5.80	4	6	Geauga	5	90	18.20	8.00	8	11	Choctaw
20	90	20.20	8.00	5	7	Greene	10(5000)	90	12.60	4.10	6	8	Cimarron
25	90	13.20	6.10	5	7	Guernsey	10	90	35.50	8.80	8	11	Cleveland
20	90	18.60	8.70	5	7	Hamilton	10	90	21.70	8.00	8	11	Coal
20	90	20.60	6.30	5	7	Hancock	10	90	33.80	9.00	8	11	Comanche
20	90	24.20	6.90	5	7	Hardin	10	90	26.20	7.90	8	11	Cotton
20	90	12.60	5.80	5	7	Harrison	15	90	13.90	7.60	8	11	Craig

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
25(1200)	90	18.60	6.20	5	8	Perry							SOUTH DAKOTA
25	90	32.40	8.10	6	9	Philadelphia	40	90	19.30	3.90	6	9	Aurora
CS	90	28.40	8.50	5	8	Pike	40	90	17.40	3.60	6	9	Beadle
CS	90	16.50	5.90	4	6	Potter	25	90	16.40	4.00	5	8	Bennett
CS	90	25.50	7.40	6	8	Schuykill	40	90	16.20	4.00	6	10	Bon Homme
35(800)	90	18.30	6.20	5	7	Snyder	50	90	10.90	2.80	6	9	Brookings
CS	90	15.50	6.10	5	7	Somerset	50	90	9.40	2.60	5	8	Brown
30(1700)	90	18.60	6.60	5	7	Sullivan	40	90	18.50	3.90	6	9	Brule
CS	90	19.10	7.30	5	7	Susquehanna	40	90	19.30	3.90	5	9	Buffalo
30(1700)	90	16.60	6.20	4	6	Tioga	30(3700)	90	13.10	4.10	4	6	Butte
35(800)	90	18.40	6.30	5	7	Union	50	90	8.30	2.60	5	7	Campbell
30(1700)	90	13.50	5.40	4	6	Venango	40	90	17.60	3.80	6	9	Charles Mix
CS	90	15.70	5.50	4	6	Warren	50	90	11.80	2.80	6	9	Clark
25	90	13.00	5.90	5	7	Washington	35	90	12.00	3.90	7	10	Clay
CS	90	23.90	7.90	5	7	Wayne	50	90	10.60	2.70	6	9	Codington
CS	90	13.70	5.90	5	7	Westmoreland	50	90	7.60	2.60	5	7	Corson
30(1700)	90	20.90	7.30	5	7	Wyoming	20	90	17.90	4.70	4	7	Custer
30(1700)	90	23.40	6.80	6	9	York	40	90	17.40	3.70	6	9	Davison
							50	90	10.10	2.60	5	8	Day
						RHODE ISLAND	50	90	10.10	2.60	6	9	Deuel
30	111	26.50	7.80	5	8	Bristol	50	90	8.30	2.70	5	7	Dewey
30	110	26.30	7.80	5	8	Kent	40	90	17.70	3.80	6	9	Douglas
30	116	25.20	7.40	6	8	Newport	50	90	9.30	2.60	5	8	Edmunds
35	105	26.80	8.10	5	7	Providence	15(5500)	90	18.50	4.80	4	7	Fall River
30	119	25.20	7.50	6	8	Washington	50	90	11.60	2.80	5	8	Faulk
							50	90	10.60	2.60	6	8	Grant
						SOUTH CAROLINA	40	90	17.30	3.80	6	9	Gregory
10	90	42.20	14.20	7	9	Abbeville	30	90	11.90	3.60	5	8	Haakon
10	94	49.40	16.90	8	10	Aiken	50	90	11.10	2.80	6	9	Hamlin
5	101	57.80	19.20	8	11	Allendale	40	90	16.20	3.50	5	8	Hand
10	90	40.50	13.80	7	9	Anderson	40	90	15.70	3.50	6	9	Hanson
5	101	77.10	22.20	8	11	Bamberg	35	90	8.50	3.30	4	6	Harding
5	98	57.80	19.00	8	11	Barnwell	35	90	13.10	3.40	5	8	Hughes
5	122	71.30	21.70	9	11	Beaufort	40	90	15.50	3.80	6	9	Hutchinson
5	121	163.50	46.00	9	11	Berkeley	40	90	14.90	3.40	5	8	Hyde
10	98	84.40	23.60	8	10	Calhoun	25	90	12.50	3.60	5	8	Jackson
5	129	137.90	39.60	9	11	Charleston	40	90	19.70	3.90	6	9	Jerauld
10	90	38.60	13.90	6	9	Cherokee	30	90	12.70	3.60	5	8	Jones
10	90	42.60	15.50	7	9	Chester	50	90	12.70	3.10	6	9	Kingsbury
10	95	43.80	16.80	7	10	Chesterfield	40	90	12.00	3.20	6	9	Lake
10	104	116.90	32.70	8	11	Clarendon	25(4800)	90	15.20	4.20	4	6	Lawrence
5	110	112.80	30.40	9	11	Colleton	40	90	10.80	3.60	6	9	Lincoln
10	98	66.60	22.50	8	10	Darlington	35	90	15.90	3.70	5	9	Lyman
10	102	56.00	19.90	8	11	Dillon	40	90	13.00	3.50	6	9	McCook
5	110	121.10	33.10	9	11	Dorchester	50	90	8.30	2.50	5	7	McPherson
10	92	46.40	15.90	7	10	Edgefield	50	90	8.60	2.50	5	8	Marshall
10	92	52.00	17.60	7	10	Fairfield	30	90	14.20	4.10	4	7	Meade
10	105	85.40	26.40	8	11	Florence	30	90	12.80	3.60	5	8	Mellette
5	126	126.30	38.90	9	11	Georgetown	40	90	13.70	3.30	6	9	Miner
10	90	40.90	13.90	7	9	Greenville	40	90	11.30	3.60	6	9	Minnehaha
10	90	43.20	14.60	7	10	Greenwood	40	90	10.80	3.20	6	9	Moody
5	105	62.70	20.40	9	11	Hampton	20	90	15.20	4.10	4	7	Pennington
10	119	92.70	28.20	9	11	Horry	CS	90	8.00	2.90	4	7	Perkins
0	111	58.10	19.30	9	11	Jasper	50	90	11.40	2.90	5	8	Potter
10	95	58.70	19.60	7	10	Kershaw	50	90	10.00	2.50	5	8	Roberts
10	92	42.60	16.10	7	10	Lancaster	40	90	18.80	3.80	6	9	Sanborn
10	90	42.30	14.40	7	9	Laurens	20	90	16.90	4.30	5	7	Shannon
10	97	66.20	21.70	8	10	Lee	50	90	12.80	3.10	5	8	Spink
10	94	58.00	18.80	8	10	Lexington	35	90	13.10	3.40	5	8	Stanley
10	90	42.40	14.30	7	10	McCormick	40	90	12.40	3.20	5	8	Sully
10	108	82.10	26.10	8	11	Marion	25	90	14.20	3.80	5	8	Todd
10	97	48.50	18.10	8	10	Marlboro	35	90	15.30	3.70	5	9	Tripp
10	90	49.30	16.50	7	10	Newberry	40	90	12.50	3.70	6	9	Turner
10(1800)	90	40.80	13.60	7	9	Oconee	35	90	11.00	3.80	7	10	Union
10	100	88.70	24.50	8	11	Orangeburg	50	90	9.00	2.70	5	7	Walworth
10(1800)	90	41.80	13.80	7	9	Pickens	35	90	14.50	4.00	6	10	Yankton
10	95	60.30	19.50	8	10	Richland	40	90	8.50	2.90	5	7	Ziebach
10	91	49.40	16.40	7	10	Saluda							
10	90	39.70	14.00	7	9	Spartanburg							TENNESSEE
10	97	92.20	26.50	8	10	Sumter	10(1800)	90	52.00	14.10	6	9	Anderson
10	90	41.90	14.70	7	9	Union	10	90	28.00	13.30	6	9	Bedford
10	111	140.00	42.50	9	11	Williamsburg	10	90	67.60	22.80	6	8	Benton
10	90	38.80	14.20	6	9	York	10(1800)	90	39.70	13.50	6	9	Bledsoe
							10(1800)	90*	59.20	15.10	6	9	Blount

S	W	S _s	S _t	I1	I2	County Name	S	W	S _s	S _t	I1	I2	County Name
10(1800)	90	56.30	14.50	7	9	Bradley	10(1800)	90	26.20	13.10	6	8	Smith
10(1800)	90	43.20	13.50	6	8	Campbell	10	90	70.10	23.10	6	8	Stewart
10(1800)	90	27.20	13.10	6	8	Cannon	15(2600)	90	42.80	13.20	6	8	Sullivan
10	90	92.20	26.90	7	9	Carroll	10	90	28.50	14.00	6	8	Sumner
15(2600)	90*	43.80	13.40	6	8	Carter	10	90	176.80	53.00	7	9	Tipton
10	90	38.20	16.50	6	8	Cheatham	10	90	26.90	13.40	6	8	Trousdale
10	90	67.40	23.30	7	9	Chester	15(2600)	90	45.90	13.60	6	9	Unicoi
10(1800)	90	50.80	13.80	6	8	Claiborne	10(1800)	90*	54.60	14.20	6	8	Union
10(1800)	90	25.00	12.60	6	8	Clay	10(1800)	90	31.60	13.10	6	9	Van Buren
10(1800)	90*	55.10	14.30	6	9	Cocke	10(1800)	90	28.70	13.00	6	9	Warren
10(1800)	90	28.50	13.10	6	9	Coffee	15(2600)	90*	45.40	13.50	6	9	Washington
10	90	136.20	41.30	7	9	Crockett	10	90	39.50	17.20	7	9	Wayne
10(1800)	90	35.20	13.10	6	8	Cumberland	10	90	118.80	32.90	6	9	Weakley
10	90	32.20	14.50	6	8	Davidson	10(1800)	90	28.50	12.90	6	9	White
10	90	55.10	20.40	7	9	Decatur	10	90	31.70	14.30	6	8	Williamson
10(1800)	90	26.90	12.90	6	8	De Kalb	10	90	27.30	13.60	6	8	Wilson
10	90	42.00	17.80	6	8	Dickson							
10	90	262.60	82.90	7	9	Dyer							TEXAS
10	90	96.10	28.10	7	9	Fayette	5	90	12.50	5.90	9	11	Anderson
10(1800)	90	27.80	12.50	6	8	Fentress	5	90	21.80	4.10	6	8	Andrews
10(1800)	90	31.80	13.10	6	9	Franklin	5	91	13.80	6.00	10	12	Angelina
10	90	138.10	41.60	7	9	Gibson	0	131	9.90	2.60	10	12	Aransas
10	90	29.20	13.90	6	9	Giles	5	90	12.60	5.60	8	11	Archer
10(1800)	90	55.00	14.10	6	8	Grainger	15	90	16.70	5.00	6	9	Armstrong
10(1800)	90*	49.60	13.90	6	9	Greene	5	93	15.60	3.20	9	12	Atascosa
10(1800)	90	34.20	13.20	6	9	Grundy	5	97	10.30	4.20	10	12	Austin
10(1800)	90	55.00	14.20	6	8	Hamblen	15	90	10.70	3.60	6	8	Bailey
10(1800)	90	51.20	14.10	7	9	Hamilton	5	90	8.60	2.70	8	11	Bandera
10(1800)	90	47.60	13.50	6	8	Hancock	5	92	9.90	4.00	9	12	Bastrop
10	90	72.80	24.20	7	9	Hardeman	5	90	11.40	5.10	8	11	Baylor
10	90	47.50	19.30	7	9	Hardin	0	106	13.10	3.00	9	12	Bee
10(1800)	90	48.60	13.70	6	8	Hawkins	5	90	8.60	4.20	9	11	Bell
10	90	123.60	37.00	7	9	Haywood	5	90	12.40	3.40	9	12	Bexar
10	90	66.30	23.00	7	9	Henderson	5	90	8.40	3.70	9	11	Blanco
10	90	97.30	27.40	6	8	Henry	5	90	10.10	3.30	6	10	Borden
10	90	40.20	17.30	6	8	Hickman	5	90	8.40	4.50	9	11	Bosque
10	90	58.40	20.60	6	8	Houston	5	90	17.30	8.50	8	11	Bowie
10	90	56.00	20.30	6	8	Humphreys	0	120	9.60	4.00	10	13	Brazoria
10(1800)	90	25.60	12.80	6	8	Jackson	5	90	10.70	4.60	10	12	Brazos
10(1800)	90	57.60	14.50	6	9	Jefferson	0(4500)	90	37.90	9.80	6	9	Brewster
20(2500)	90*	42.10	13.00	6	8	Johnson	15	90	12.30	4.30	6	10	Briscoe
10(1800)	90	58.10	14.70	6	9	Knox	0	106	8.90	2.20	9	12	Brooks
10	90	335.90	107.70	7	9	Lake	5	90	7.30	3.90	8	11	Brown
10	90	204.60	64.30	7	9	Lauderdale	5	90	10.40	4.30	9	12	Burleson
10	90	32.50	14.60	6	9	Lawrence	5	90	7.90	3.80	9	11	Burnet
10	90	39.10	17.00	6	9	Lewis	5	92	10.30	3.90	9	12	Caldwell
10	90	28.50	13.30	6	9	Lincoln	0	121	10.10	3.60	10	12	Calhoun
10(1800)	90	55.60	14.50	6	9	Loudon	5	90	7.90	4.00	8	11	Callahan
10(1800)	90	56.00	14.50	7	9	McMinn	0	129	5.10	1.40	10	12	Cameron
10	90	54.90	20.50	7	9	McNairy	5	90	16.00	7.50	8	11	Camp
10	90	26.20	13.20	6	8	Macon	20	90	17.70	5.10	6	9	Carson
10	90	95.60	28.10	7	9	Madison	5	90	17.00	8.20	8	11	Cass
10(1800)	90	41.80	13.70	6	9	Marion	20	90	12.00	3.80	6	8	Castro
10	90	28.60	13.70	6	9	Marshall	0	119	10.90	4.60	11	13	Chambers
10	90	32.10	14.40	6	9	Maury	5	90	13.60	6.10	9	11	Cherokee
10(1800)	90	51.10	14.20	7	9	Meigs	10	90	14.00	5.20	7	11	Childress
10(1800)	90	57.50	14.80	7	9	Monroe	5	90	16.50	6.20	8	11	Clay
10	90	50.10	19.30	6	8	Montgomery	5(3200)	90	10.20	3.40	6	8	Cochran
10	90	28.50	13.20	6	9	Moore	5	90	8.30	3.40	7	11	Coke
10(1800)	90	40.10	13.40	6	8	Morgan	5	90	7.30	3.80	8	11	Coleman
10	90	179.60	53.40	7	9	Obion	5	90	14.30	6.20	9	11	Collin
10(1800)	90	26.10	12.50	6	8	Overton	15	90	17.20	5.60	7	10	Collingsworth
10	90	46.60	19.00	6	9	Perry	5	98	10.40	4.10	10	12	Colorado
10(1800)	90	25.70	12.30	6	8	Pickett	5	90	11.20	3.80	9	12	Comal
10(1800)	90	57.20	14.60	7	9	Polk	5	90	7.70	4.10	8	11	Comanche
10(1800)	90	26.80	12.70	6	8	Putnam	5	90	7.30	3.50	8	11	Concho
10(1800)	90	45.80	13.90	6	9	Rhea	5	90	17.50	6.50	8	11	Cooke
10(1800)	90	47.80	14.00	6	9	Roane	5	90	8.20	4.20	9	11	Coryell
10	90	37.10	16.20	6	8	Robertson	10	90	11.50	4.70	7	11	Cottle
10	90	27.60	13.40	6	8	Rutherford	5	90	16.70	3.90	6	9	Crane
10(1800)	90	36.00	12.90	6	8	Scott	0	90	8.00	2.70	7	10	Crockett
10(1800)	90	41.10	13.60	6	9	Sequatchie	10	90	9.40	3.80	6	10	Crosby
10(1800)	90*	58.70	14.90	6	9	Sevier	0(3500)	90	39.70	12.00	5	7	Culbertson
10	90	137.50	41.50	7	10	Shelby	10(5000)	90	15.90	4.20	6	8	Dallam

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
5	90	12.00	5.80	9	11	Dallas	0	120	8.70	2.20	10	12	Kenedy
5	90	12.00	3.50	6	9	Dawson	5	90	8.60	4.00	7	10	Kent
15	90	14.10	4.00	6	8	Deaf Smith	5	90	7.90	2.90	8	11	Kerr
5	90	16.10	7.10	9	11	Delta	5	90	6.80	2.60	8	11	Kimble
5	90	13.70	6.00	8	11	Denton	10	90	9.90	4.20	7	11	King
5	100	12.20	3.90	9	12	De Witt	0	90	6.80	2.20	8	11	Kinney
10	90	9.50	4.10	7	10	Dickens	0	118	9.70	2.40	10	12	Kleberg
0	90	8.20	2.30	9	11	Dimmit	5	90	10.50	4.60	7	11	Knox
15	90	16.50	5.20	7	10	Donley	0	90	17.30	7.60	8	11	Lamar
0	99	10.60	2.50	9	12	Duval	5	90	10.00	3.50	6	8	Lamb
5	90	8.10	4.20	8	11	Eastland	5	90	7.70	3.90	8	11	Lampasas
5	90	19.80	4.00	6	9	Ector	0	92	10.40	2.50	9	11	La Salle
5	90	6.60	2.40	8	11	Edwards	5	99	10.90	3.90	9	12	Lavaca
5	90	11.00	5.50	9	11	Ellis	5	91	10.10	4.10	9	12	Lee
0(3500)	90	36.20	10.80	4	6	El Paso	5	90	11.50	5.30	9	12	Leon
5	90	8.20	4.40	8	11	Erath	5	106	11.20	4.80	10	13	Liberty
5	90	10.30	4.80	9	12	Falls	5	90	11.20	5.20	9	12	Limestone
5	90	17.00	7.00	8	11	Fannin	15	90	14.50	5.20	7	10	Lipscomb
5	95	10.40	4.10	9	12	Fayette	0	100	13.40	2.90	9	12	Live Oak
5	90	8.30	3.90	7	11	Fisher	5	90	7.50	3.70	8	11	Llano
15	90	10.40	3.90	6	10	Floyd	5	90	19.10	5.10	5	8	Loving
10	90	12.20	5.10	7	11	Foard	15	90	9.60	3.50	6	9	Lubbock
0	108	10.20	4.10	10	13	Fort Bend	5(3200)	90	10.10	3.40	6	9	Lynn
5	90	15.90	7.40	8	11	Franklin	5	90	7.00	3.60	8	12	McCulloch
5	90	11.80	5.50	9	11	Freestone	5	90	9.40	4.70	9	11	McLennan
5	90	11.30	2.70	9	11	Frio	0	96	13.30	2.90	9	11	McMullen
5(3200)	90	17.40	3.90	6	8	Gaines	5	90	11.20	5.10	10	12	Madison
0	123	9.90	4.10	10	13	Galveston	0	90	16.80	7.90	9	11	Marion
5	90	9.20	3.40	6	10	Garza	0	90	12.70	3.50	6	9	Martin
5	90	8.00	3.50	8	11	Gillespie	5	90	7.10	3.50	8	11	Mason
5	90	11.20	3.20	6	10	Glasscock	0	120	9.50	3.80	10	13	Matagorda
0	106	12.50	3.70	9	12	Goliad	0	90	6.50	2.00	8	11	Maverick
5	95	11.60	3.90	9	12	Gonzales	5	90	9.90	2.70	9	11	Medina
15	90	18.50	5.40	7	10	Gray	5	90	6.80	3.00	8	11	Menard
5	90	17.60	6.90	8	11	Grayson	5	90	16.60	3.70	6	9	Midland
5	90	16.10	7.20	9	11	Gregg	5	90	10.10	4.40	9	12	Milam
5	92	10.70	4.70	10	12	Grimes	5	90	7.40	3.90	8	11	Mills
5	93	12.00	3.90	9	12	Guadalupe	5	90	9.20	3.40	7	11	Mitchell
15	90	10.80	3.70	6	9	Hale	5	90	16.40	6.20	8	11	Montague
15	90	15.60	5.20	7	10	Hall	5	97	11.00	4.80	10	12	Montgomery
5	90	7.90	4.20	8	11	Hamilton	15	90	15.60	4.30	6	9	Moore
15	90	14.20	4.80	6	9	Hansford	5	90	16.50	7.80	8	11	Morris
10	90	14.20	5.40	7	11	Hardeman	10	90	10.90	4.30	7	10	Motley
5	105	12.30	5.40	10	13	Hardin	5	90	14.70	6.30	9	11	Nacogdoches
0	105	10.50	4.30	10	13	Harris	5	90	11.60	5.60	9	11	Navarro
5	90	16.60	7.60	9	11	Harrison	5	97	14.90	6.10	10	12	Newton
10(5000)	90	17.10	4.30	6	8	Hartley	5	90	8.30	3.80	7	11	Nolan
5	90	8.90	4.20	7	11	Haskell	0	116	10.00	2.50	10	12	Nueces
5	90	10.30	3.80	9	12	Hays	15	90	13.20	4.90	7	10	Ochiltree
20	90	16.40	5.40	7	10	Hemphill	10(5000)	90	17.70	4.30	6	8	Oldham
5	90	12.50	6.00	9	11	Henderson	0	112	12.40	5.40	11	13	Orange
0	105	6.70	1.70	10	12	Hidalgo	5	90	9.60	4.90	8	11	Palo Pinto
5	90	9.70	5.00	9	11	Hill	5	90	16.20	7.20	9	11	Panola
15	90	10.10	3.40	6	8	Hockley	5	90	10.40	5.20	8	11	Parker
5	90	9.30	4.90	8	11	Hood	15	90	11.30	3.60	6	8	Parmer
5	90	15.20	6.90	9	11	Hopkins	5	90	17.70	5.10	6	9	Pecos
5	90	12.10	5.60	9	12	Houston	5	95	12.00	5.40	10	12	Polk
5	90	11.20	3.30	6	10	Howard	15	90	16.50	4.30	6	9	Potter
0(3500)	90	41.10	13.10	4	6	Hudspeth	0(4500)	90	38.00	10.20	5	8	Presidio
5	90	14.50	6.40	9	11	Hunt	5	90	13.90	6.40	9	11	Rains
15	90	16.40	4.90	6	9	Hutchinson	20	90	15.10	4.20	6	9	Randall
5	90	7.90	2.70	7	11	Irion	5	90	9.80	2.90	7	10	Reagan
5	90	11.80	5.50	8	11	Jack	5	90	7.40	2.40	8	11	Real
0	112	10.50	3.80	10	12	Jackson	5	90	17.10	8.00	8	11	Red River
5	96	15.20	6.10	10	12	Jasper	5	90	18.50	5.20	5	8	Reeves
0(3500)	90	37.60	9.90	5	8	Jeff Davis	0	117	11.30	2.80	10	12	Refugio
0	119	12.00	5.20	11	13	Jefferson	20	90	17.80	5.50	7	10	Roberts
0	98	8.70	2.20	9	12	Jim Hogg	5	90	10.90	4.80	9	12	Robertson
0	105	10.60	2.50	9	12	Jim Wells	5	90	12.80	6.10	9	11	Rockwall
5	90	9.80	5.10	9	11	Johnson	5	90	7.50	3.60	7	11	Runnels
5	90	8.20	4.00	7	11	Jones	5	90	15.40	6.70	9	11	Rusk
5	97	17.10	3.80	9	12	Karnes	5	91	16.70	6.60	9	11	Sabine
5	90	12.30	6.00	9	11	Kaufman	5	90	16.50	6.60	9	11	San Augustine
5	90	9.60	3.50	9	11	Kendall	5	96	11.60	5.20	10	12	San Jacinto

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
0	118	11.00	2.70	10	12	San Patricio	CS	90	88.80	28.60	4	6	Tooele
5	90	7.30	3.80	8	11	San Saba	30(6000)	90	35.90	8.90	4	6	Uintah
0	90	7.10	2.60	7	11	Schleicher	CS	90	115.60	44.70	4	6	Utah
5	90	8.80	3.60	7	11	Scurry	CS	90	86.00	28.60	4	6	Wasatch
5	90	8.30	4.20	8	11	Shackelford	CS	90	57.80	18.90	4	6	Washington
5	90	16.30	6.90	9	11	Shelby	15(4500)	90	64.60	18.90	4	6	Wayne
15	90	13.30	4.10	6	9	Sherman	CS	90	173.80	75.70	4	6	Weber
5	90	14.30	6.40	9	11	Smith							
5	90	8.70	4.70	9	11	Somervell							VERMONT
0	98	6.20	1.60	9	12	Starr	40	90	37.70	11.60	4	6	Addison
5	90	8.60	4.40	8	11	Stephens	CS	90*	26.90	9.10	4	7	Bennington
5	90	9.40	3.00	7	11	Sterling	60(1000)	90*	34.50	11.20	4	6	Caledonia
5	90	8.50	4.10	7	11	Stonewall	40	90	43.90	12.80	4	6	Chittenden
0	90	6.90	2.50	8	11	Sutton	CS	90*	33.80	11.00	4	6	Essex
15	90	12.00	3.90	6	9	Swisher	50(900)	90	48.90	13.30	4	6	Franklin
5	90	11.10	5.50	9	11	Tarrant	40	90	55.40	13.80	4	6	Grand Isle
5	90	7.90	4.00	7	11	Taylor	CS	90	36.90	11.80	4	6	Lamoille
0	90	16.30	4.90	7	10	Terrell	CS	90*	34.60	11.00	4	6	Orange
5(3200)	90	11.30	3.50	6	8	Terry	CS	90	33.30	11.50	4	6	Orleans
5	90	9.90	4.70	8	11	Throckmorton	50(900)	90	31.90	10.40	4	6	Rutland
5	90	16.20	7.60	8	11	Titus	CS	90	35.10	11.40	4	6	Washington
5	90	7.70	2.80	7	11	Tom Green	CS	90*	27.20	9.20	4	7	Windham
5	90	8.90	3.90	9	12	Travis	CS	90*	32.70	10.40	4	6	Windsor
5	90	12.20	5.60	10	12	Trinity							VIRGINIA
5	97	13.10	5.80	10	12	Tyler							
5	90	15.90	7.20	9	11	Upshur	15	114	12.10	5.50	8	11	Accomack
5	90	12.20	3.40	6	9	Upton	30(900)	90	34.10	9.10	6	9	Albemarle
5	90	8.00	2.40	8	11	Uvalde	CS	90	29.70	9.50	6	8	Alleghany
0	90	6.70	2.30	8	11	Val Verde	20	90	30.20	8.80	7	10	Amelia
5	90	12.80	6.20	9	11	Van Zandt	30(900)	90	27.10	9.00	6	9	Amherst
0	110	11.30	3.70	10	12	Victoria	25	90	27.40	9.10	6	10	Appomattox
5	93	11.30	5.10	10	12	Walker	25	90	17.90	6.30	7	10	Arlington
5	97	10.40	4.30	10	12	Waller	CS	90	27.00	8.60	6	8	Augusta
5	90	22.70	4.50	5	8	Ward	CS	90	23.00	8.60	6	8	Bath
5	94	10.40	4.20	10	12	Washington	25	90	25.70	9.20	6	9	Bedford
0	91	7.80	1.90	9	11	Webb	25(2500)	90*	40.90	11.90	6	8	Bland
0	108	10.00	4.00	10	12	Wharton	CS	90	27.40	9.30	6	9	Botetourt
15	90	18.40	5.70	7	10	Wheeler	20	90	19.50	8.30	8	11	Brunswick
5	90	16.40	6.10	8	11	Wichita	20(2500)	90	35.50	11.40	6	8	Buchanan
10	90	14.90	5.70	8	11	Wilbarger	25	90	33.00	9.10	7	10	Buckingham
0	121	7.30	1.80	10	12	Willacy	25	90	25.40	9.10	6	9	Campbell
5	90	8.40	4.00	9	12	Williamson	25	90	23.30	7.30	8	11	Caroline
5	94	16.70	3.80	9	12	Wilson	25(2500)	90	38.00	11.90	6	9	Carroll
5	90	26.20	4.90	5	8	Winkler	20	90	20.60	7.20	8	11	Charles City
5	90	12.80	5.80	8	11	Wise	20	90	24.60	9.00	7	10	Charlotte
5	90	14.50	6.70	9	11	Wood	20	90	27.00	8.10	8	11	Chesterfield
5(3200)	90	12.30	3.50	6	8	Yoakum	CS	90	19.10	6.70	6	8	Clarke
5	90	10.60	5.10	8	11	Young	CS	90	29.90	9.60	6	9	Craig
0	94	7.00	1.80	9	11	Zapata	30(900)	90	23.00	7.50	7	9	Culpeper
0	90	8.30	2.30	9	11	Zavala	25	90	34.20	9.10	7	10	Cumberland
							15(2600)	90	34.90	11.60	6	8	Dickenson
						UTAH	20	90	23.60	8.10	8	11	Dinwiddie
15(5000)	90	72.70	20.80	4	6	Beaver	20	90	18.30	6.50	8	11	Essex
CS	90	143.30	60.00	4	6	Box Elder	25	90	18.10	6.40	7	10	Fairfax
CS	90	112.40	34.90	4	6	Cache	30(900)	90	19.60	6.90	7	9	Fauquier
CS	90	42.60	13.30	4	6	Carbon	25(2500)	90	33.80	11.00	6	9	Floyd
20(6600)	90	34.30	9.40	4	6	Daggett	25	90	34.40	8.90	7	10	Fluvanna
CS	90	177.70	80.10	4	6	Davis	25	90	27.50	9.90	6	9	Franklin
35(6000)	90	38.20	11.50	4	6	Duchesne	CS	90	19.40	7.00	5	8	Frederick
15(4500)	90	55.10	15.10	4	6	Emery	25(2500)	90	39.80	11.30	6	8	Giles
CS	90	73.40	21.70	4	6	Garfield	15	97	15.90	6.20	8	11	Gloucester
15(4500)	90	23.70	6.40	4	6	Grand	25	90	33.90	8.80	7	10	Goochland
CS	90	109.60	33.40	4	6	Iron	20(2500)	90*	39.70	12.40	6	8	Grayson
10(4800)	90	105.90	32.30	4	6	Juab	30(900)	90	26.00	8.10	8	9	Greene
CS	90	53.80	18.10	4	6	Kane	15	90	19.60	8.20	8	11	Greensville
15(5000)	90	79.20	20.80	4	6	Millard	20	90	21.30	9.10	7	10	Halifax
CS	90	111.40	37.80	4	6	Morgan	20	90	26.10	7.70	8	11	Hanover
CS	90	80.80	21.20	4	6	Piute	20	90	30.20	8.40	8	11	Henrico
CS	90	97.90	29.60	4	6	Rich	20	90	27.90	10.60	6	9	Henry
CS	90	178.50	77.10	4	6	Salt Lake	CS	90	19.30	7.90	6	8	Highland
CS	90	22.00	6.20	4	6	San Juan	10	96	15.90	6.40	8	11	Isle of Wight
CS	90	64.60	20.30	4	6	Sanpete	15	93	6.70	6.10	8	11	James City
15(4500)	90	96.70	24.40	4	6	Sevier	20	90	18.70	6.60	8	11	King and Queen
CS	90	64.00	24.50	4	6	Summit	25	90	19.20	6.70	8	11	King George

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
20	90	20.40	7.00	8	11	King William	15(400)	85	123.40	39.70	4	6	Pierce
20	97	15.90	6.10	8	11	Lancaster	20(200)	85	118.20	41.30	4	6	San Juan
15(2600)	90	42.60	13.10	6	8	Lee	CS	85	114.40	32.60	4	6	Skagit
30(900)	90	18.50	6.40	6	9	Loudoun	CS	85	61.00	22.00	4	6	Skamania
25	90	29.90	8.50	7	10	Louisa	15(400)	85	122.90	39.80	4	6	Snohomish
20	90	23.50	8.80	7	10	Lunenburg	CS	85	31.60	9.20	4	6	Spokane
30(900)	90	24.80	7.90	6	9	Madison	CS	85	28.60	9.10	4	6	Stevens
15	103	14.50	6.00	8	11	Mathews	15(400)	85	118.40	41.40	4	6	Thurston
20	90	19.70	8.80	7	10	Mecklenburg	CS	85*	115.60	51.40	4	6	Wahkiakum
20	96	16.60	6.30	8	11	Middlesex	20(1900)	85	48.50	14.00	4	6	Walla Walla
25(2500)	90	37.20	11.10	6	9	Montgomery	CS	85	112.10	32.30	4	6	Whatcom
30(900)	90	28.70	8.90	6	9	Nelson	CS	85	28.60	9.00	4	6	Whitman
20	90	19.80	7.00	8	11	New Kent	CS	85	48.00	15.90	4	6	Yakima
10	113	12.40	5.70	8	11	Northampton							
20	95	15.90	6.10	8	11	Northumberland							
20	90	26.40	8.70	7	10	Nottoway							
30(900)	90	26.50	8.10	7	9	Orange	CS	90	16.20	6.70	5	7	WEST VIRGINIA Barbour
CS	90	21.60	7.50	6	8	Page	CS	90	19.30	6.50	5	8	Berkeley
20(2500)	90	29.50	11.10	6	9	Patrick	20(2500)	90	23.90	9.10	6	8	Boone
20	90	23.10	9.40	6	9	Pittsylvania	CS	90	17.70	7.70	5	8	Braxton
25	90	33.70	8.90	7	10	Powhatan	25	90	12.60	5.80	5	7	Brooke
25	90	28.90	9.00	7	10	Prince Edward	20	90	21.50	8.70	5	8	Cabell
20	90	22.70	7.70	8	11	Prince George	25	90	16.80	7.40	5	7	Calhoun
25	90	19.40	6.70	7	10	Prince William	25	90	18.90	8.20	5	8	Clay
25(2500)	90	40.30	11.80	6	8	Pulaski	20	90	15.30	6.60	5	7	Doddridge
30(900)	90	21.00	7.30	6	9	Rappahannock	20(2500)	90	24.90	9.00	6	8	Fayette
20	90	17.60	6.30	8	11	Richmond	20	90	16.60	7.20	5	7	Gilmer
CS	90	34.00	10.30	6	9	Roanoke	CS	90	18.00	7.00	5	8	Grant
CS	90	25.70	9.00	6	9	Rockbridge	25(2500)	90	28.30	9.30	6	8	Greenbrier
CS	90	24.90	8.20	6	8	Rockingham	CS	90	18.10	6.60	5	8	Hampshire
15(2600)	90	40.40	12.40	6	8	Russell	25	90	12.60	5.70	5	7	Hancock
15(2600)	90	42.00	13.00	6	8	Scott	CS	90	18.20	6.90	5	8	Hardy
CS	90	19.90	7.20	6	8	Shenandoah	CS	90	15.60	6.50	5	7	Harrison
20(2500)	90*	40.70	12.40	6	8	Smyth	25	90	18.10	7.80	5	7	Jackson
15	92	16.90	7.20	8	11	Southampton	CS	90	19.00	6.40	6	8	Jefferson
25	90	24.10	7.40	7	10	Spotsylvania	20	90	20.70	8.60	5	8	Kanawha
25	90	19.70	6.80	7	10	Stafford	CS	90	16.30	7.00	5	7	Lewis
15	92	17.40	6.70	8	11	Surry	20	90	21.80	8.80	5	8	Lincoln
15	90	18.80	7.50	8	11	Sussex	20(2500)	90	25.90	9.40	6	8	Logan
20(2500)	90*	40.20	12.00	6	8	Tazewell	20(2500)	90	36.70	11.10	6	8	McDowell
CS	90	19.80	7.10	6	8	Warren	CS	90	15.30	6.30	5	7	Marion
15(2600)	90*	41.70	12.80	6	8	Washington	20	90	13.00	6.00	5	7	Marshall
20	90	17.80	6.30	8	11	Westmoreland	20	90	18.70	8.00	5	7	Mason
15(2600)	90	37.50	12.10	6	8	Wise	20(2500)	90	39.60	11.30	6	8	Mercer
25(2500)	90*	40.70	12.10	6	8	Wythe	CS	90	17.30	6.40	5	8	Mineral
15	96	15.50	6.20	8	11	York	20(2500)	90	26.80	9.70	6	8	Mingo
						WASHINGTON	CS	90	15.20	6.20	5	7	Monongalia
20(1900)	85	32.50	9.70	4	6	Adams	25(2500)	90	34.80	10.10	6	8	Monroe
CS	85	28.90	9.00	4	6	Asotin	CS	90	19.20	6.40	5	8	Morgan
15(1500)	85	55.90	17.00	4	6	Benton	25(2500)	90	21.10	8.50	5	8	Nicholas
CS	85	48.90	15.70	4	6	Chelan	20	90	12.70	6.00	5	7	Ohio
CS	85*	124.30	52.10	4	6	Clallam	CS	90	18.70	7.50	5	8	Pendelton
CS	85	102.50	33.20	4	6	Clark	20	90	15.20	6.50	5	7	Pleasants
CS	85	39.10	11.60	4	6	Columbia	CS	90	21.40	8.40	5	8	Pocahontas
15(400)	85*	97.90	37.20	4	6	Cowlitz	CS	90	15.80	6.30	5	7	Preston
CS	85	45.30	14.30	4	6	Douglas	20	90	19.50	8.40	5	8	Putnam
CS	85	31.60	9.80	4	6	Ferry	20(2500)	90	29.40	9.60	6	8	Raleigh
10(1200)	85	51.00	15.50	4	6	Franklin	CS	90	17.00	7.10	5	8	Randolph
CS	85	32.60	9.50	4	6	Garfield	20	90	15.70	6.80	5	7	Ritchie
CS	85	43.70	13.60	4	6	Grant	25	90	17.60	7.70	5	7	Roane
CS	85*	129.30	60.00	4	6	Grays Harbor	20(2500)	90	33.70	10.00	6	8	Summers
15(400)	85	123.30	42.00	4	6	Island	CS	90	15.80	6.40	5	7	Taylor
CS	85*	126.00	44.70	4	6	Jefferson	CS	90	16.70	6.80	5	8	Tucker
CS	85	159.70	55.60	4	6	King	20	90	14.60	6.30	5	7	Tyler
15(400)	85	136.90	48.10	4	6	Kitsap	CS	90	16.50	7.00	5	7	Upshur
CS	85	52.10	17.10	4	6	Kittitas	20	90	22.40	8.90	5	8	Wayne
CS	85	42.00	14.90	4	6	Klickitat	CS	90	18.70	8.00	5	8	Webster
15(400)	85	107.50	40.10	4	6	Lewis	20	90	14.00	6.20	5	7	Wetzel
CS	85	29.70	9.30	4	6	Lincoln	25	90	16.80	7.20	5	7	Wirt
20(200)	85	121.70	45.20	4	6	Mason	20	90	16.30	6.90	5	7	Wood
CS	85	46.80	13.90	4	6	Okanogan	20(2500)	90	33.60	10.40	6	8	Wyoming
CS	85*	150.00	60.00	4	6	Pacific							
CS	85	36.10	9.60	4	6	Pend Oreille							

S	W	S _s	S ₁	I1	I2	County Name	S	W	S _s	S ₁	I1	I2	County Name
WISCONSIN													
40	90	7.70	3.60	5	7	Adams	50	90	6.60	3.10	5	7	Portage
60	90	6.30	1.70	5	6	Ashland	60	90	5.70	2.60	5	7	Price
60	90	5.40	2.60	5	7	Barron	30	90	12.60	5.20	5	7	Racine
60	90	6.30	1.70	5	6	Bayfield	30	90	8.20	3.90	6	8	Richland
40	90	6.60	3.10	5	7	Brown	25	90	13.70	5.30	5	7	Rock
50	90	5.50	2.90	6	8	Buffalo	60	90	5.50	2.60	5	7	Rusk
60	90	5.50	2.00	5	7	Burnett	50	90	5.50	2.70	6	8	St. Croix
35	90	7.80	3.60	5	7	Calumet	30	90	9.00	4.00	5	7	Sauk
50	90	5.40	2.70	5	7	Chippewa	60	90	5.50	1.90	5	7	Sawyer
50	90	5.90	3.00	5	7	Clark	50	90	6.30	2.90	5	7	Shawano
30	90	9.20	4.00	5	7	Columbia	35	90	8.30	3.80	5	7	Sheboygan
35	90	7.60	3.90	6	8	Crawford	50	90	5.60	2.70	5	7	Taylor
30	90	11.40	4.50	5	7	Dane	50	90	5.60	3.00	6	8	Trempealeau
30	90	10.40	4.10	5	7	Dodge	35	90	7.20	3.60	6	8	Vernon
50	90	6.00	2.90	5	6	Door	60	90	6.50	2.50	5	6	Vilas
60	90	5.60	1.60	5	7	Douglas	25	90	14.30	5.40	5	7	Walworth
50	90	5.40	2.70	6	8	Dunn	60	90	5.40	2.30	5	7	Washburn
50	90	5.50	2.80	6	7	Eau Claire	30	90	10.20	4.10	5	7	Washington
60	90	6.50	2.50	5	6	Florence	30	90	12.00	4.80	5	7	Waukesha
35	90	8.50	3.80	5	7	Fond du Lac	40	90	7.00	3.30	5	7	Waupaca
60	90	6.00	2.70	5	6	Forest	40	90	7.70	3.50	5	7	Waushara
30	90	8.40	4.20	6	8	Grant	35	90	7.80	3.60	5	7	Winnebago
30	90	12.40	5.20	6	8	Green	50	90	6.80	3.20	5	7	Wood
35	90	8.30	3.70	5	7	Green Lake	WYOMING						
30	90	10.00	4.30	6	8	Iowa	20(6600)	90	24.30	6.20	4	6	Albany
60	90	7.00	1.80	5	6	Iron	15(5500)	90*	24.60	6.30	4	6	Big Horn
50	90	6.10	3.10	6	7	Jackson	20(4500)	90	32.90	6.40	4	6	Campbell
30	90	12.10	4.80	5	7	Jefferson	20(6600)	90	33.40	7.80	4	6	Carbon
40	90	7.80	3.70	5	7	Juneau	15(5500)	90	37.90	7.70	4	6	Converse
30	90	13.60	5.40	5	7	Kenosha	25(4800)	90	17.40	4.80	4	6	Crook
40	90	6.60	3.20	5	7	Kewaunee	15(5500)	90*	41.20	9.00	4	6	Fremont
40	90	6.40	3.40	6	8	La Crosse	15(5500)	90	17.60	5.20	4	6	Goshen
30	90	10.90	4.80	6	8	Lafayette	15(5500)	90	32.70	7.90	4	6	Hot Springs
60	90	5.90	2.80	5	7	Langlade	15(5500)	90*	36.90	7.30	4	6	Johnson
60	90	5.70	2.80	5	7	Lincoln	20(6600)	90	18.60	5.60	4	6	Laramie
35	90	7.40	3.50	5	7	Manitowoc	CS	90	65.00	22.60	4	6	Lincoln
50	90	5.90	2.80	5	7	Marathon	15(5500)	90	34.60	7.80	4	6	Natrona
60	90	6.00	2.80	5	6	Marinette	15(5500)	90	23.10	5.80	4	6	Niobrara
35	90	8.30	3.80	5	7	Marquette	CS	90	27.20	9.10	4	6	Park
50	90	6.10	2.90	5	7	Menominee	20(4500)	90	28.40	6.30	4	6	Platte
30	90	11.70	4.60	5	7	Milwaukee	20(4500)	90*	27.00	6.00	4	6	Sheridan
40	90	6.70	3.40	6	8	Monroe	CS	90*	41.20	13.30	4	6	Sublette
50	90	6.10	2.80	5	7	Oconto	20(6600)	90*	36.40	9.10	4	6	Sweetwater
60	90	6.00	2.60	5	6	Oneida	CS	90	147.20	59.80	4	6	Teton
40	90	7.20	3.40	5	7	Outagamie	CS	90	89.90	29.60	4	6	Uinta
30	90	10.10	4.10	5	7	Ozaukee	15(5500)	90*	29.00	6.90	4	6	Washakie
50	90	5.40	2.80	6	8	Pepin	20(4500)	90	18.40	5.10	4	6	Weston
50	90	5.40	2.70	6	8	Pierce	CS	90	--	--	4	6	Yellowstone NP
50	90	5.50	2.50	6	7	Polk							