

IX. System Performance Indicators and Data

Introduction

This chapter presents the set of system performance indicators, adopted by the MPO in 2009, and the data relevant to the indicators. The purpose of the performance indicators is to provide some quantitative evaluation of the ability of the urbanized area to move toward the goals stated in the plan (Chapter VI - Goals and Objectives). The indicators, at this time, are not tied to any specific performance goals and are only intended as a planning tool.

However, the last federal transportation bill, Moving Ahead for Progress in the 21st Century (MAP-21), initiated the process of establishing a performance- and outcome-based program. The objective of this performance- and outcome-based program is for States and MPOs to invest resources in projects that collectively will make progress toward the achievement of the national goals. Those national goals are:

- Safety
- Infrastructure condition
- Congestion reduction
- System reliability
- Freight movement and economic vitality
- Environmental sustainability
- Reduced project delivery delays

Within one year of the U.S. DOT final rule on performance measures, states are required to set performance targets in support of those measures. States may set different performance targets for urbanized and rural areas. Within 180 days of states or providers of public transportation setting performance targets, MPOs are required to set performance targets in relation to the performance measures (where applicable). To ensure consistency, each MPO must, to the maximum extent practicable, coordinate with the relevant State and public transportation providers when setting performance targets. These measures and targets will be set and in use as federal and state rules and guidance are finalized.

Performance Indicators

1. Safety

Streets and Highways

Indicators: Total Crashes, Total Fatal Crashes, Total Severe Injury Crashes
 Data Source: WisTransPortal – the WisTransPortal Project
 Crash reports and summaries (MV400) web application

	2008	2009	2010	2011	2012	2013	2014
Total Reportable Crashes	2,736	2,503	2,601	2,724	2,579	2,902	2,976
Total Fatal Crashes	11	7	6	9	11	8	3
Total Severe Injuries (incapacitating)	71	71	71	56	47	51	42

2. Accessibility and Mobility of People and Freight

Streets and Highways

Indicator: Level of Service, Base Data 2010, from roads in network, Directional miles
 Data Source: WisDOT – Traffic Demand Model for Chippewa-Eau Claire MPA

Level of Service category and description	Mileage
A, B, C – Stable traffic flow with possible slight delays and/or impedance	1,172.3
D – High density of vehicles with stable but slower traffic flow	1.5
E – Operating conditions at or near capacity; unstable flow	0.0
F – Forced flow, breakdown conditions	0.0

Indicator: System mileage: Chippewa -Eau Claire Urbanized Area – Urban Road Miles by Functional Classification, Center line miles
 Data Source: WisDOT

Functional Classification	Mileage	Percent of Total System
Interstate Highway	13.38	1.6%
Principal Arterial	79.40	9.3%
Minor Arterial	78.55	9.2%
Collector	124.32	14.5%
Local	561.49	65.5%
Total	857.14	100.0%

Transit

Indicator: Revenue Hours of Service, Revenue Miles of Service (*from unlinked passenger trips, passenger miles, revenue hours, and revenue miles by system*)

Data Source: National Transit Data Base (NTD), or transit operator

Eau Claire Transit (fixed route)	2009	2010	2011	2012	2013
Unlinked passenger trips	882,291	918,671	1,023,905	1,022,610	1,000,816
Revenue miles of service	680,823	680,967	663,039	664,398	694,863
Revenue hours of service	46,085	46,033	47,178	46,174	46,398
Passengers per revenue mile	1.30	1.35	1.54	1.54	1.44
Passengers per revenue hour	19.14	19.96	21.70	22.15	21.57

ECT ADA paratransit service (urban)	2009	2010	2011	2012	2013
Unlinked passenger trips	50,385	53,262	55,237	53,319	47,146
Revenue miles of service	203,768	211,123	203,902	320,974	285,886
Revenue hours of service	20,036	19,751	19,557	26,965	24,337
Average trip length	4.04	3.96	3.69	6.02	3.75
Passengers per revenue mile	0.25	0.25	0.27	0.17	0.16
Passengers per revenue hour	2.51	2.7	2.82	1.98	1.93

Chippewa Falls Shared Ride Taxi	2009	2010	2011	2012	2013
Unlinked passenger trips	59,240	62,751	67,261	66,272	67,815
Revenue miles of service	173,132	178,244	190,188	184,797	189,093
Revenue hours of service	14,611	16,861	17,131	15,941	16,206
Passengers per revenue mile	0.34	0.35	0.35	0.36	0.36
Passengers per revenue hour	4.05	3.72	3.93	4.16	4.18

Indicator: Percent urbanized area served by transit, percent urbanized area served by shared ride taxi.

Data Source: Eau Claire Transit: bus routes - ¼ mile buffer around fixed routes (GIS geoprocessing); City of Chippewa Falls: service area for shared ride taxi.

	Area (square mileage)	Percent of Urbanized Area
Total Urbanized Area	104.7	100%
Eau Claire Transit: ¼ mile buffer around fixed bus routes	23.1	22.1%
Chippewa Falls Shared Ride Taxi (service area is all of City of Chippewa Falls)	11.7	11.2%
Total Transit Area	34.8	33.3%

3. Integration and Connectivity of the Transportation System, Across and Between Modes for People and Freight

Streets and Highways

Indicator: Designated park-ride capacity and use

Data Source: WisDOT Region Offices, Park-ride lot capacity and use statistics
(total spaces available per average weekday, spaces occupied per average weekday, percent in use per average weekday)

Lot	Capacity	Volume	Percent in use	Count date
I-94/STH 312	68	14	21%	9/29/2009
I-94/STH 312	N/A	N/A	N/A	2010
I-94/STH 312	68	12	18%	9/27/2011
I-94/STH 312	68	8	12%	9/25/2012
I-94/STH 312	68	14	21%	9/25/2013
I-94/STH 312	68	11	16%	10/1/2014
I-94/STH 312	68	6	9%	10/1/2015

Air

Indicator: Airport Passenger Volume (*enplanements*)

Data Source: Individual airport operators

	2008	2009	2010	2011	2012	2013	2014
Operations (takeoffs & landings)	32,849	29,880	28,324	24,906	26,743	23,365	21,554
Air Carrier Enplanements	18,158	13,072	17,976	19,097	22,335	21,641	20,433

4. Efficient Management and Operations

Streets and Highways

Indicator: Deficient directional miles, based on Level of Service (LOS) determinations for base 2010 model network

Data Source: WisDOT Traffic forecasting section – Travel demand model output
Base Data:

Chippewa Eau Claire MPA Base Network – 2010	
Directional miles LOS A, B, C “sufficient”	1,172.3
Directional miles LOS D “approaching deficient”	1.5
Directional miles LOS E “potentially deficient”	0.0

Directional miles LOS F “deficient”	0.0

Indicator: Hours of congested travel

Data Source: WisDOT Traffic forecasting section – Travel demand model output
Base Data:

Chippewa Eau Claire MPA Base Network – 2010
Hours of congested travel per average weekday - 1,416.2

Transit

Indicator: Passengers/revenue hour of operation, passengers/revenue mile of operation, passenger miles traveled, number of passenger trips
 Data Source: National Transit Database (NTD), or providers (*uses unlinked passenger trips, passenger miles, revenue hours, and revenue miles by system*)
 See previous data regarding transit operations.

5. System Preservation

Streets and Highways

Indicator: Pavement condition – number of miles and percent of total miles in each category
 Data Source: WISLR for PASER Extranet Login, 2013 & 2014

Rating	Mileage							
	Altoona	Anson	Brunswick	Chippewa Falls	Eagle Point	Eau Claire*	Hallie	Lafayette
10 & 9 - Excellent	4.22	6.21	14.31	4.45	11.00	145.25	0.5	17.26
8 - Very Good	10.79	7.69	5.26	20.44	9.77	78.80	2.03	15.41
7 & 6 - Good	6.99	21.19	6.97	31.03	23.31	35.32	0.95	29.51
5 & 4 - Fair	3.97	14.36	17.92	25.30	32.45	20.81	0.42	14.54
3 - Poor	1.86	5.38	2.04	10.32	8.25	4.18	0.03	2.38
2 - Very Poor	6.07	1.31	0.96	6.29	9.93	3.11	0.13	3.97
1 - Failed	2.42	0.00	0.00	0.54	7.40	4.31	0.00	2.12
Total	36.31	56.14	47.46	98.37	102.11	349.82	4.06	85.20

58.04**
 *converted from PAVER index
 **uncategorized miles in Eau Claire

Rating	Mileage								Percent of total
	Lake Hallie	Pleasant Valley	Seymour	Tilden	Union	Washington	Wheaton	Total	
10 & 9 - Excellent	2.23	31.06	11.12	1.52	10.31	13.33	9.57	282.34	23%
8 - Very Good	27.53	5.11	18.07	5.40	20.10	11.08	12.06	249.54	20%
7 & 6 - Good	24.87	18.22	17.81	18.40	14.23	51.65	32.97	333.42	27%
5 & 4 - Fair	16.37	10.42	5.97	12.32	0.57	21.29	23.04	219.75	18%
3 - Poor	6.79	0.91	0.14	1.05	0.18	0.11	0.67	44.30	4%
2 - Very Poor	1.26	0.22	0.00	1.03	0.40	0.00	1.49	36.18	3%
1 - Failed	0.00	0.24	0.00	0.44	0.05	0.00	1.07	18.58	1%
Total	79.05	66.18	53.12	40.16	45.84	97.47	80.88	1,242.16	100%

Indicator: Bridge Structure Condition – Sufficiency Rating
 Data Source: WisDOT Region Office

Sufficiency Rating	Meaning	Number of bridges	Percent of total
81 to 100	Bridge is sufficient and does not need to be rehabbed or replaced	145	74%
51 to 80	Bridge can be rehabbed	29	15%
0 to 50	Bridge can be replaced or rehabbed	22	11%

6. Regional Trends

Indicator: Population
 Data Source: DOA, Division of Intergovernmental Relations - Population & Housing Estimates & U.S. Census, 2010

Chippewa-Eau Claire MPO Municipalities Population Estimates

	2009	2010	2011	2012	2013	2014
Chippewa County	55,195	62,415	62,610	62,777	62,918	63,038
Eau Claire County	93,142	98,736	99,012	99,260	99,734	100,477
C. Altoona	6,831	6,706	6,735	6,820	6,900	7,056
C. Chippewa Falls	13,470	13,661	13,688	13,704	13,635	13,685
C. Eau Claire	65,950	65,883	66,060	66,170	66,480	66,834
V. Lake Hallie	6,463	6,448	6,534	6,647	6,680	6,763
T. Anson	2,134	2,076	2,084	2,090	2,100	2,100
T. Brunswick	1,672	1,624	1,638	1,644	1,663	1,725
T. Eagle Point	3,154	3,053	3,066	3,071	3,097	3,101
T. Hallie	161	161	163	167	168	169
T. Lafayette	5,983	5,765	5,778	5,800	5,833	5,850
T. Pleasant Valley	3,109	3,044	3,060	3,083	3,114	3,159
T. Seymour	3,209	3,209	3,223	3,222	3,226	3,265
T. Tilden	1,368	1,485	1,493	1,499	1,506	1,500
T. Union	2,586	2,663	2,683	2,694	2,712	2,739
T. Washington	7,329	7,182	7,181	7,187	7,205	7,223
T. Wheaton	2,632	2,701	2,707	2,714	2,734	2,737

Indicator: Households

Data Source: Department of Administration, Division of Intergovernmental Relations - Population & Housing Estimates (most recent year), and U.S. Census – American FactFinder – Housing occupancy and vacancy status (most recent census)

Estimated Total Housing Units for Chippewa and Eau Claire Counties

	2009*	2010**	2011*	2012*	2013*	2014*
Chippewa County	26,472	27,185	27,313	27,429	27,567	27,699
Eau Claire County	41,974	42,151	42,351	42,558	42,944	43,338

*DOA Estimates

**2010 U.S. Census

Chippewa-Eau Claire MPO Municipalities
Housing Units: Total, Occupied, and Vacant, 2009-2013

Housing units:	2009*			2010**			2011***			2012****			2013*****		
	Total	Occupied	Vacant	Total	Occupied	Vacant	Total	Occupied	Vacant	Total	Occupied	Vacant	Total	Occupied	Vacant
C. Altoona	3,117	N/A	N/A	3,288	2,883	405	3,067	2,932	135	3,165	3,012	153	2,999	2,900	99
C. Chippewa Falls	6,007	N/A	N/A	6,304	5,896	408	6,556	5,926	630	6,601	5,991	610	6,698	6,141	557
C. Eau Claire	27,919	N/A	N/A	28,134	26,803	1,331	28,317	26,557	1,760	28,329	26,812	1,517	28,573	27,023	1,550
V. Lake Hallie										2,501	2,302	199	2,370	2,301	69
T. Anson	884	N/A	N/A	944	841	103	1,013	857	156	1,067	908	159	1,038	882	156
T. Brunswick	799	N/A	N/A	702	658	44	719	696	23	700	676	24	707	691	16
T. Eagle Point	1,278	N/A	N/A	1,345	1,211	134	1,205	1,074	131	1,311	1,129	182	1,293	1,136	157
T. Hallie	51	N/A	N/A	63	60	3	86	86	0	83	83	0	73	73	0
T. Lafayette	2,344	N/A	N/A	2,514	2,273	241	2,397	2,188	209	2,348	2,330	18	2,580	2,398	182
T. Pleasant Valley	1,139	N/A	N/A	1,117	1,076	41	1,105	1,051	54	1,122	1,054	68	1,108	1,040	68
T. Seymour	1,213	N/A	N/A	1,293	1,232	61	1,258	1,199	59	1,270	1,264	6	1,203	1,187	16
T. Tilden	470	N/A	N/A	564	546	18	426	417	9	457	449	8	508	501	7
T. Union	994	N/A	N/A	1,014	983	31	1,016	936	80	1,018	952	66	1,079	1,018	61
T. Washington	2,871	N/A	N/A	2,888	2,758	130	2,908	2,826	82	2,960	2,896	64	2,934	2,869	65
T. Wheaton	1,060	N/A	N/A	1,050	1,001	49	1,029	981	48	1,010	958	52	994	935	59
Total	50,146	N/A	N/A	51,220	48,221	2,999	51,102	47,726	3,376	53,942	50,816	3,126	54,157	51,095	3,062
Percent	100.00%	N/A	N/A	100.00%	94.14%	5.86%	100.00%	93.39%	6.61%	100.00%	93.39%	6.61%	100%	94.35%	5.65%

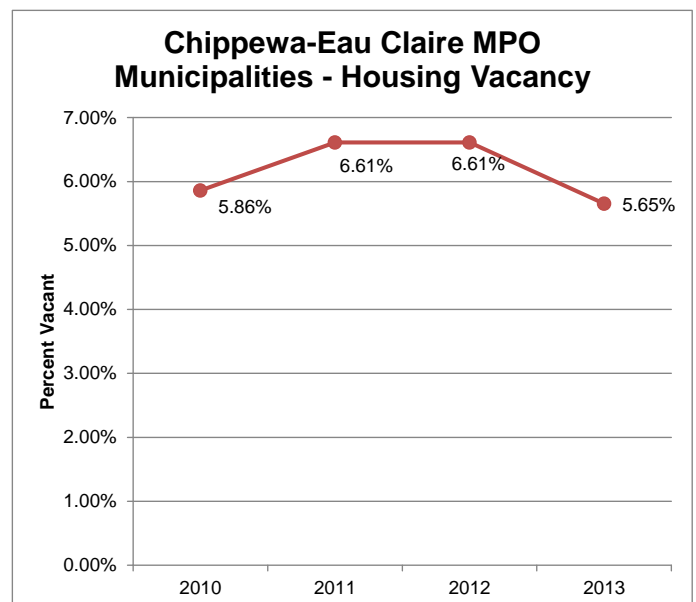
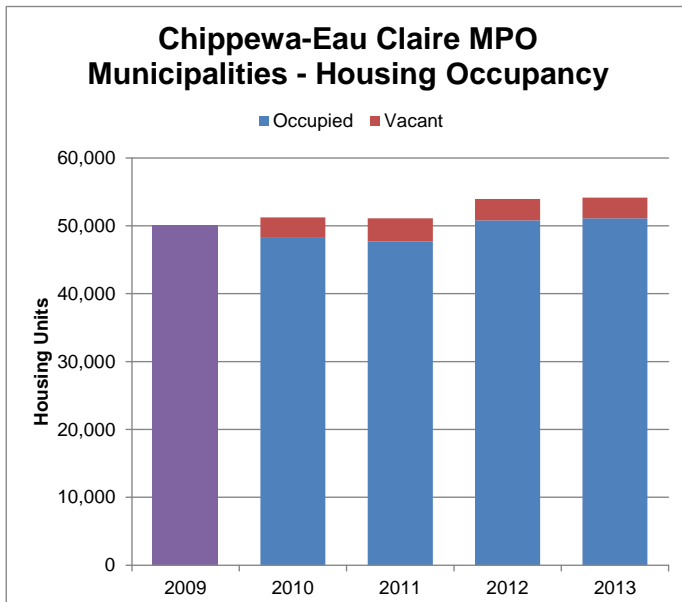
*source: 2005-2009 American Community Survey 5-Year Estimates

**source: U.S. Bureau of the Census, 2010 Census Summary File 1

***source: 2007-2011 American Community Survey 5-Year Estimates

****source: 2008-2012 American Community Survey 5-Year Estimates

*****source: 2009-2013 American Community Survey 5-Year Estimates

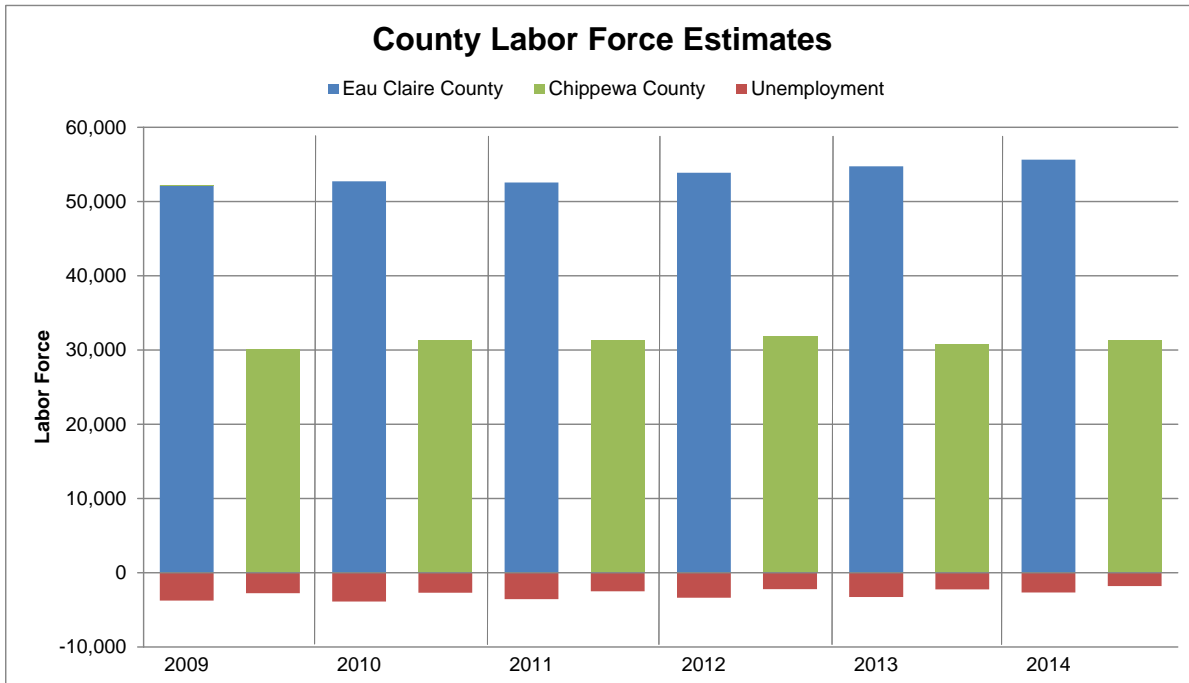


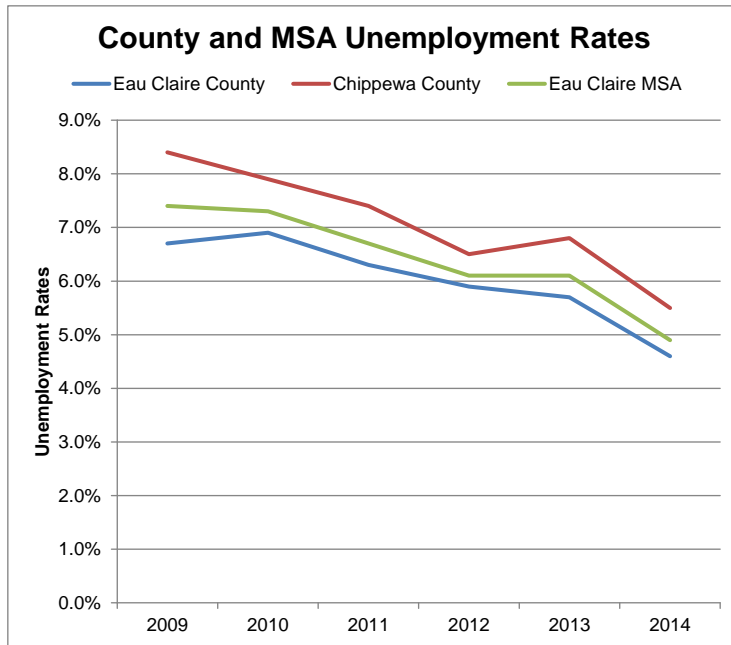
Indicator: Employment

Data Source: Department of Workforce Development – OEA – Unemployment Rates and Labor Force Estimates (Labor force and employment estimates by county and MSA)

Chippewa and Eau Claire Counties and Eau Claire MSA Labor Force and Employment Estimates

	2009				2010				2011			
	Labor Force	Employment	Unemployment	Unemployment Rate	Labor Force	Employment	Unemployment	Unemployment Rate	Labor Force	Employment	Unemployment	Unemployment Rate
Eau Claire County	55,943	52,171	3,772	6.7%	56,609	52,715	3,894	6.9%	56,138	52,583	3,555	6.3%
Chippewa County	32,923	30,160	2,763	8.4%	34,017	31,319	2,698	7.9%	33,750	31,241	2,509	7.4%
Eau Claire MSA	88,866	82,330	6,536	7.4%	90,626	84,034	6,592	7.3%	89,888	83,824	6,064	6.7%
	2012				2013				2014			
	Labor Force	Employment	Unemployment	Unemployment Rate	Labor Force	Employment	Unemployment	Unemployment Rate	Labor Force	Employment	Unemployment	Unemployment Rate
Eau Claire County	57,256	53,887	3,369	5.9%	58,032	54,738	3,294	5.70%	58,324	55,653	2,671	4.60%
Chippewa County	34,037	31,832	2,205	6.5%	33,045	30,806	2,239	6.80%	33,126	31,307	1,819	5.50%
Eau Claire MSA	91,292	85,719	5,573	6.1%	91,077	85,544	5,533	6.10%	91,450	86,960	4,490	4.90%





Indicator: Economic Development - Housing permits and housing razings by county and municipality

Data Source: DOA – Not provided on website, must contact DOA

Chippewa-Eau Claire MPO Municipalities Housing Starts and Razings

Housing Units:	2009			2010			2011			2012			2013			2014		
	Added	Deleted	Change	Added	Deleted	Change	Added	Deleted	Change	Added	Deleted	Change	Added	Deleted	Change	Added	Deleted	Change
C. Altoona	11	0	11	18	0	18	56	0	56	70	0	70	59	0	59	80	0	80
C. Chippewa Falls	15	1	14	8	0	8	4	3	1	14	2	12	29	4	25	64	7	57
C. Eau Claire - Chippewa County	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8
C. Eau Claire - Eau Claire County	202	24	178	128	9	119	111	15	96	238	10	228	253	12	241	89	9	80
V. Lake Hallie	50	0	50	50	0	50	49	1	48	17	0	17	27	0	27	35	0	35
T. Anson	10	1	9	8	0	8	6	0	6	6	1	5	9	1	8	8	1	7
T. Brunswick	6	0	6	10	0	10	3	0	3	13	0	13	24	0	24	26	0	26
T. Eagle Point	10	0	10	11	1	10	6	1	5	13	0	13	16	0	16	6	0	6
T. Hallie	0	0	0	1	0	1	2	0	2	1	0	1	1	0	1	0	0	0
T. Lafayette	26	2	24	12	0	12	19	0	19	21	0	21	15	0	15	24	0	24
T. Pleasant Valley	18	3	15	13	3	10	14	0	14	11	0	11	15	0	15	11	0	11
T. Seymour	16	0	16	10	0	10	2	1	1	6	0	6	17	1	16	10	1	9
T. Tilden	7	0	7	4	0	4	5	0	5	5	0	5	1	1	0	3	5	-2
T. Union	15	0	15	13	0	13	10	0	10	10	0	10	8	0	8	9	0	9
T. Washington	25	0	25	12	1	11	11	2	9	31	0	31	17	0	17	22	0	22
T. Wheaton	10	0	10	5	0	5	5	0	5	13	1	12	3	0	3	4	0	4
Total	422	31	391	303	14	289	303	23	280	469	14	455	494	19	475	399	23	376



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