

FIPS ID	County	Area (mi ² /county)	Residuals ^{a,b}		TPO Roundwood ^d	Changes in Roundwood Harvest ^e
			TPO Harvest Residuals ^{a,b}	BTS Harvest Residuals ^c		
55001	Adams	648	33.9	0.0	113.9	31.0
55003	Ashland	1044	39.9	20.6	93.0	10.1
55005	Barron	863	17.5	5.0	39.8	25.8
55007	Bayfield	1476	39.9	15.7	99.7	64.5
55009	Brown	529	3.7	0.0	9.3	19.5
55011	Buffalo	684	9.4	44.8	19.5	56.1
55013	Burnett	822	34.0	26.4	90.5	17.9
55015	Calumet	320	2.0	0.0	4.2	3.9
55017	Chippewa	1010	20.9	0.0	48.6	15.0
55019	Clark	1216	23.3	4.2	58.2	54.8
55021	Columbia	774	12.5	0.0	35.1	-15.0
55023	Crawford	573	12.8	40.5	23.3	19.9
55025	Dane	1202	2.3	0.0	4.8	3.6
55027	Dodge	882	2.7	0.0	5.0	0.4
55029	Door	483	4.8	0.0	12.5	1.2
55031	Douglas	1309	41.0	21.3	106.9	56.9
55033	Dunn	852	22.4	35.6	52.9	10.9
55035	Eau Claire	638	19.8	24.2	51.0	25.1
55037	Florence	488	80.4	48.1	194.3	41.4
55039	Fond Du Lac	723	1.2	0.0	2.6	0.7
55041	Forest	1014	67.4	1.0	150.8	44.7
55043	Grant	1148	7.8	16.0	14.6	17.3
55045	Green	584	2.1	52.8	4.6	5.3
55047	Green Lake	354	3.0	0.0	8.4	4.7
55049	Iowa	763	6.1	18.8	11.7	16.2
55051	Iron	757	58.3	0.0	138.0	68.6
55053	Jackson	987	33.8	7.2	91.9	46.1
55055	Jefferson	557	1.1	0.0	2.1	8.2
55057	Juneau	768	26.4	16.8	72.0	34.0
55059	Kenosha	273	0.2	0.0	0.4	0.4
55061	Kewaunee	343	8.3	0.0	15.8	-5.4
55063	La Crosse	453	10.8	11.6	24.3	44.9
55065	Lafayette	634	2.9	12.5	5.3	-3.5
55067	Langlade	873	86.1	58.9	224.8	-18.5
55069	Lincoln	883	64.9	18.6	173.5	16.6
55071	Manitowoc	592	8.2	0.0	15.6	1.1
55073	Marathon	1545	27.6	30.2	65.3	5.5
55075	Marinette	1402	57.4	6.8	137.2	15.9
55077	Marquette	456	12.7	0.0	40.2	-8.1
55078	Menominee	358	129.9	237.1	299.0	111.0
55079	Milwaukee	242	0.0	77.5	0.1	0.1
55081	Monroe	901	13.4	17.0	34.3	37.9
55083	Oconto	998	49.9	15.4	122.4	-46.2
55085	Oneida	1125	43.7	0.0	124.6	48.2
55087	Outagamie	640	6.6	0.0	13.8	-0.4
55089	Ozaukee	232	2.0	0.0	4.9	2.3
55091	Pepin	232	7.2	0.0	14.8	46.4
55093	Pierce	576	7.9	120.1	14.6	14.2
55095	Polk	917	15.1	41.3	36.9	24.3
55097	Portage	806	22.0	24.6	64.5	10.6
55099	Price	1253	43.3	15.1	112.2	23.1
55101	Racine	333	1.4	0.0	4.4	-2.3
55103	Richland	586	11.1	0.0	20.7	40.8
55105	Rock	720	0.9	1.0	1.5	2.0
55107	Rusk	913	43.5	31.1	104.9	33.3
55109	Sauk	838	12.2	28.8	24.8	38.9
55111	Sawyer	1256	66.6	12.3	161.8	4.9
55113	Shawano	893	33.0	35.4	73.2	8.7
55115	Sheboygan	514	3.4	2.5	8.7	7.7
55117	St Croix	722	7.2	0.0	19.1	5.4
55119	Taylor	975	31.2	19.8	79.3	34.8
55121	Trempealeau	734	10.4	4.8	26.0	24.6
55123	Vernon	795	11.5	65.2	21.6	23.7
55125	Vilas	874	64.8	109.1	157.7	41.2
55127	Walworth	555	1.8	0.0	6.3	-1.7
55129	Washburn	810	48.9	10.2	118.4	48.4
55131	Washington	431	4.1	6.8	10.0	-2.6
55133	Waukesha	556	1.6	0.0	4.6	-0.4
55135	Waupaca	751	28.5	24.3	70.2	-8.7
55137	Waushara	626	15.6	28.8	55.2	7.7
55139	Winnebago	439	2.2	0.0	4.7	12.3
55141	Wood	793	26.4	12.5	71.0	-5.2

^a 2008 Timber Production Output report

^b Residuals assume 12 dry tons per cubic foot of residuals

^c 2011 Billion Ton Study Model - Baseline case @ \$60/ton, average of 2012, 2017, 2022, 2027 data

^d Currently used for sawlogs and pulpwood

^e Difference in values between 1996 and 2008 TPO report

^f 2010 Nass Dairy Data - Assume 14% solids and 148 lbs manure/cow/day.

^g Average of 2000-2010 Nass Corn Data - Corn for grain only, assume 1:1 stover to grain and 25% removal rate.

^h Wisconsin Bioenergy Atlas data for CRP and fallow pastures, assume 2.5 dry ton/year grass yield

FIPS ID	County	Area (mi ² /county)	Ton/mi ²			
			NASS Dairy Manure ^a	NASS Corn Stover ^b	BTS Corn Stover ^c	BTS Wood Energy Crop ^d
55001	Adams	648	6.4	26.5	8.0	71.0
55003	Ashland	1044	7.2	<5	0.0	7.9
55005	Barron	863	105.2	59.1	100.9	47.6
55007	Bayfield	1476	5.4	<5	0.0	8.4
55009	Brown	529	289.5	54.9	66.6	14.0
55011	Buffalo	684	102.3	74.9	94.0	45.5
55013	Burnett	822	15.6	8.7	8.9	29.2
55015	Calumet	320	342.7	83.4	39.6	18.4
55017	Chippewa	1010	114.2	55.6	151.3	45.8
55019	Clark	1216	205.2	36.8	2.0	144.9
55021	Columbia	774	75.7	148.3	244.1	28.3
55023	Crawford	573	58.7	46.8	59.8	69.5
55025	Dane	1202	163.6	144.2	208.6	27.6
55027	Dodge	882	171.5	140.4	186.3	23.9
55029	Door	483	61.1	22.5	2.2	101.8
55031	Douglas	1309	1.4	<5	0.0	13.9
55033	Dunn	852	97.6	81.0	54.5	46.5
55035	Eau Claire	638	61.6	53.4	68.9	43.7
55037	Florence	488	2.3	<5	0.0	5.8
55039	Fond Du Lac	723	272.0	104.2	89.6	20.0
55041	Forest	1014	<1	<5	0.0	7.6
55043	Grant	1148	148.2	127.2	197.5	109.7
55045	Green	584	197.5	149.8	169.9	55.8
55047	Green Lake	354	86.5	122.9	105.8	25.6
55049	Iowa	763	116.5	76.6	71.5	101.9
55051	Iron	757	<1	<5	0.0	1.7
55053	Jackson	987	50.6	32.7	28.3	21.4
55055	Jefferson	557	99.1	136.3	87.4	23.4
55057	Juneau	768	52.7	38.4	28.0	42.1
55059	Kenosha	273	44.3	102.7	103.1	14.7
55061	Kewaunee	343	446.5	53.5	50.8	22.9
55063	La Crosse	453	76.8	63.1	103.2	43.7
55065	Lafayette	634	175.9	190.9	134.1	100.8
55067	Langlade	873	32.5	4.5	3.2	50.2
55069	Lincoln	883	18.4	2.7	0.9	33.6
55071	Manitowoc	592	316.2	57.6	30.2	24.1
55073	Marathon	1545	159.1	31.3	6.8	154.3
55075	Marinette	1402	31.6	11.1	10.6	16.3
55077	Marquette	456	46.4	43.4	4.9	184.3
55078	Menominee	358	<1	<5	0.0	0.0
55079	Milwaukee	242	<1	3.5	2.9	0.0
55081	Monroe	901	107.0	44.4	22.8	62.9
55083	Oconto	998	73.9	32.2	12.9	15.5
55085	Oneida	1125	n/m	<5	0.0	2.3
55087	Outagamie	640	224.5	86.8	125.2	15.7
55089	Ozaukee	232	143.4	44.8	6.1	55.8
55091	Pepin	232	136.9	98.7	134.8	37.4
55093	Pierce	576	106.4	116.1	100.7	55.5
55095	Polk	917	65.2	45.0	69.8	44.2
55097	Portage	806	61.9	39.6	27.1	24.6
55099	Price	1253	11.2	1.1	0.0	19.8
55101	Racine	333	43.2	105.2	107.8	11.2
55103	Richland	586	95.5	45.4	70.6	76.9
55105	Rock	720	63.5	211.4	458.8	7.0
55107	Rusk	913	47.2	9.5	9.0	28.6
55109	Sauk	838	119.6	73.8	57.9	57.1
55111	Sawyer	1256	6.9	51.5	74.1	33.8
55113	Shawano	893	156.7	2.4	2.8	17.3
55115	Sheboygan	514	195.0	75.2	36.8	37.4
55117	St Croix	722	104.7	40.6	28.1	9.0
55119	Taylor	975	64.0	18.2	0.0	118.0
55121	Trempealeau	734	113.3	85.6	70.6	58.9
55123	Vernon	795	116.5	57.9	73.6	81.5
55125	Vilas	874	<1	<5	0.0	0.4
55127	Walworth	555	84.5	160.2	108.4	20.5
55129	Washburn	810	12.6	6.9	11.5	39.0
55131	Washington	431	128.1	54.3	15.5	29.8
55133	Waukesha	556	17.7	44.2	96.8	9.7
55135	Waupaca	751	118.3	49.4	59.2	25.2
55137	Waushara	626	30.2	32.9	21.6	11.8
55139	Winnebago	439	134.4	77.2	34.9	18.7
55141	Wood	793	94.9	29.0	5.0	26.9

^a 2008 Timber Production Output report

^b Residuals assume 12 dry tons per cubic foot of residuals

^c 2011 Billion Ton Study Model - Baseline case @ \$60/ton, average of 21

^d Currently used for sawlogs and pulpwood

^e Difference in values between 1996 and 2008 TPO report

^f 2010 NASS Dairy Data - Assume 14% solids and 148 lbs manure/cow/c

^g Average of 2000-2010 NASS Corn Data - Corn for grain only, assume 1

^h Wisconsin Bioenergy Atlas data for CRP and fallow pastures, assume

FIPS ID	County	Area (mi ² /county)	Perinneeal Grass ^h
55001	Adams	648	5.6
55003	Ashland	1044	1.0
55005	Barron	863	229.4
55007	Bayfield	1476	1.3
55009	Brown	529	166.9
55011	Buffalo	684	31.9
55013	Burnett	822	22.3
55015	Calumet	320	298.4
55017	Chippewa	1010	36.7
55019	Clark	1216	24.6
55021	Columbia	774	54.8
55023	Crawford	573	10.3
55025	Dane	1202	99.8
55027	Dodge	882	189.6
55029	Door	483	172.0
55031	Douglas	1309	1.0
55033	Dunn	852	54.7
55035	Eau Claire	638	29.6
55037	Florence	488	0.8
55039	Fond Du Lac	723	208.4
55041	Forest	1014	1.1
55043	Grant	1148	36.0
55045	Green	584	110.2
55047	Green Lake	354	87.6
55049	Iowa	763	58.7
55051	Iron	757	0.1
55053	Jackson	987	5.9
55055	Jefferson	557	121.7
55057	Juneau	768	11.2
55059	Kenosha	273	65.7
55061	Kewaunee	343	118.7
55063	La Crosse	453	23.4
55065	Lafayette	634	109.4
55067	Langlade	873	25.3
55069	Lincoln	883	9.9
55071	Manitowoc	592	161.3
55073	Marathon	1545	28.5
55075	Marinette	1402	14.2
55077	Marquette	456	11.6
55078	Menominee	358	0.4
55079	Milwaukee	242	109.5
55081	Monroe	901	24.5
55083	Oconto	998	48.8
55085	Oneida	1125	0.6
55087	Outagamie	640	103.3
55089	Ozaukee	232	132.6
55091	Pepin	232	35.0
55093	Pierce	576	87.3
55095	Polk	917	228.1
55097	Portage	806	27.9
55099	Price	1253	3.2
55101	Racine	333	53.9
55103	Richland	586	38.5
55105	Rock	720	91.2
55107	Rusk	913	41.6
55109	Sauk	838	45.2
55111	Sawyer	1256	13.7
55113	Shawano	893	106.6
55115	Sheboygan	514	144.7
55117	St Croix	722	210.2
55119	Taylor	975	16.6
55121	Trempealeau	734	28.0
55123	Vernon	795	24.1
55125	Vilas	874	0.7
55127	Walworth	555	110.5
55129	Washburn	810	30.7
55131	Washington	431	163.8
55133	Waukesha	556	47.7
55135	Waupaca	751	93.1
55137	Waushara	626	16.1
55139	Winnebago	439	103.6
55141	Wood	793	31.4

^a 2008 Timber Production Output report

^b Residuals assume 12 dry tons per cubic foot of residuals

^c 2011 Billion Ton Study Model - Baseline case @ \$60/ton, average of 2

^d Currently used for sawlogs and pulpwood

^e Difference in values between 1996 and 2008 TPO report

^f 2010 Nass Dairy Data - Assume 14% solids and 148 lbs manure/cow/c

^g Average of 2000-2010 Nass Corn Data - Corn for grain only, assume 1

^h Wisconsin Bioenergy Atlas data for CRP and fallow pastures, assume