

**Medicaid Analytic Extract  
Provider Characteristics  
(MAXPC)**

**State-Specific Validation Tables,  
2010**

**Wisconsin**

May 31, 2013

Deo Bencio  
Mei-ling Mason



**MATHEMATICA**  
Policy Research

**This page has been left blank for double-sided copying.**

Contract Number:  
HHSM-500-2005-00025I

Task Number:  
HHSM-500-T0002

Mathematica Reference Number:  
06759.660

Submitted to:  
Centers for Medicare & Medicaid Services  
7500 Security Boulevard, B2-29-04  
Baltimore, MD 21244-1850  
Project Officer: Cara Petroski

Submitted by:  
Mathematica Policy Research  
1100 1st Street, NE  
12th Floor  
Washington, DC 20002-4221  
Telephone: (202) 484-9220  
Facsimile: (202) 863-1763  
Project Director: Julie Sykes

**Medicaid Analytic Extract  
Provider Characteristics  
(MAXPC)**

**State-Specific Validation Tables,  
2010**

**Wisconsin**

May 31, 2013

Deo Bencio  
Mei-ling Mason

**MATHEMATICA**  
**Policy Research**

**This page has been left blank for double-sided copying.**

## ACRONYMS

CMS	Centers for Medicare & Medicaid Services
CY	Calendar year
FY	Federal fiscal year
HIPAA	Health Insurance Portability and Accountability Act
ID	Identification/identifier
IP	Inpatient
LT	Long-term care
MAX	Medicaid Analytic Extract
MAXPC	MAX Provider Characteristics File
MSIS	Medicaid Statistical Information System
NPI	National Provider Identifier
NPPES	National Plan and Provider Enumeration System
OT	Other services
RX	Drug
UPIN	Unique Physician Identification Number

**This page has been left blank for double-sided copying.**

## INTRODUCTION

The Medicaid Statistical Information System (MSIS) files and the corresponding research-friendly Medicaid Analytic Extract (MAX) files support a wide range of studies on Medicaid enrollment, service use, and expenditures. There is currently considerable interest at the Centers for Medicare & Medicaid Services (CMS) in also examining health reform proposals, program integrity, and access-to-care issues among certain types of Medicaid providers. However, it has not been possible to easily conduct provider-based research activities because the provider identification numbers collected in MSIS are largely unedited, undocumented, and state specific.

The advent of the Health Insurance Portability and Accountability Act (HIPAA) mandated covered entities such as health care providers, health plans, and health care clearinghouses to obtain and use a National Provider Identifier (NPI) in all administrative and financial HIPAA transactions.<sup>1</sup> The NPI is a unique 10-digit, sequentially assigned national identification number, unstructured so as not to carry any way information such as the state or medical specialty of the health care provider who “owns” the identifier. Beginning in February 2009, states were required to include NPIs on claims submitted to MSIS. The main limitation of this identifier, however, is that certain classes of nonmedical providers are not required to obtain an NPI. Nonetheless, the availability of the NPI on MSIS claims makes the development of a uniform provider characteristic file more feasible. The MAX Provider Characteristics (MAXPC) file is such a file.

Once the state’s MAXPC file is created, validation tables are produced. Validation tables are designed as a diagnostic tool to determine whether linkages are working in the expected manner and consist of a set of seven tables. The first six tables focus on provider ID types in the IP, LT, OT, and RX files. These provider types are: IP billing, LT billing, OT servicing, OT billing, RX billing, and RX prescribing provider IDs. The seventh table examines all provider IDs in all of the files. Each file-specific validation table is used to detect linkage issues that are peculiar to a given file type. The all-provider table is used to monitor the overall quality of the linkages of all provider IDs. The design of the validation tables is very similar across file types. The measures are grouped into seven sections as denoted by the shaded rows. The first section describes measures for each unique provider in the file. The second section focuses on the source of NPIs. The third section focuses on provider IDs that link to NPPES, followed by a section for provider IDs that link to state provider files. The fifth section focuses on the primary taxonomy of providers that link to NPPES. Among providers, taxonomies are classified into two groups: (1) individuals or groups of individuals, and (2) nonindividuals. The sixth section focuses on individual providers showing their sole proprietorship status. Finally, the seventh section focuses on provider organizations and their ownership status.

The columns in the state-specific tables describe the annual statistics for up to three years, followed by a column describing the percentage change between year one and year two, the

---

<sup>1</sup> CMS. “National Provider Identifier (NPI) Overview.” Available at <http://www.cms.gov/nationalProvIdentstand/>.

percentage change between year two and year three, if applicable, followed by the expected range of values across years, and finally, an indicator showing whether the percentage change between the two most recent years being compared is within the expected range.

The primary source of data used in the MAXPC 2010 files were the MSIS Valid claims files. The following measures in the MAXPC file were derived from original, unadjusted claims:

- Number of IP Claims for Provider
- Number of Beneficiaries with IP Claims for Provider
- Number of LT Claims for Provider
- Number of Beneficiaries with LT Claims for Provider
- Number of OT Claims for Provider
- Number of Beneficiaries with OT Claims for Provider
- Number of RX Claims for provider
- Number of Beneficiaries with RX Claims for Provider.



## 2009-2010 MAX IP Billing Provider Characteristics Validation Table

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>IP Providers</b>					
Number of provider IDs	392	452	15.31	30% (+/-)	Yes
% billing provider on IP claim	99.5	100.0	0.51	N/A	N/A
% NPI billing provider on IP claim	97.2	97.3	0.16	N/A	N/A
% also a provider on LT claim	0.5	0.0	-100.00	N/A	N/A
% also a provider on OT claim	90.8	90.3	-0.61	N/A	N/A
% also a provider on RX claim	11.2	7.3	-34.95	N/A	N/A
% provider IDs with NPI	97.4	97.8	0.35	30% (+/-)	Yes
% provider IDs linked to NPPES	97.4	97.8	0.35	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	422.0	380.8	-9.76	30% (+/-)	Yes
average number of beneficiaries with IP claims	315.2	275.4	-12.64	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	382	442	15.71	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	382	442	15.71	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = IP state code	38.2	31.0	-18.90	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	100.0	99.3	-0.68	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	100.0	0.00	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	382	439	14.92	30% (+/-)	Yes
% individual or group of individuals	0.5	0.5	-12.98	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.3	0.5	74.05	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic eExtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX IP Billing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.3	0.0	-100.00	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.5	99.5	0.07	30% (+/-)	Yes
% agencies	0.3	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	0.8	0.0	-100.00	30% (+/-)	Yes
% hospital units	0.5	0.2	-56.49	30% (+/-)	Yes
% hospitals	96.6	98.4	1.87	30% (+/-)	Yes
% laboratories	0.5	0.2	-56.49	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.5	0.0	-100.00	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.3	0.5	74.05	30% (+/-)	Yes
% transportation services	0.0	0.2	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	382	442	15.71	30% (+/-)	Yes
% organization is a subpart	9.4	9.5	0.83	30% (+/-)	Yes
% organization is not a subpart	81.9	82.1	0.23	30% (+/-)	Yes
% not answered	8.6	8.4	-3.10	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX LT Billing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>LT Providers</b>					
Number of provider IDs	416	421	1.20	30% (+/-)	Yes
% billing provider on LT claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on LT claim	98.8	98.8	0.01	N/A	N/A
% also a provider on IP claim	0.5	0.0	-100.00	N/A	N/A
% also a provider on OT claim	94.2	94.3	0.07	N/A	N/A
% also a provider on RX claim	0.5	1.0	97.51	N/A	N/A
% provider IDs with NPI	98.8	98.8	0.01	30% (+/-)	Yes
% provider IDs linked to NPPES	98.8	98.8	0.01	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	671.0	648.2	-3.40	30% (+/-)	Yes
average number of beneficiaries with LT claims	86.0	82.9	-3.60	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	411	416	1.22	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	411	416	1.22	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = LT state code	98.5	98.6	0.02	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	100.0	99.3	-0.72	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	100.0	0.00	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	411	413	0.49	30% (+/-)	Yes
% individual or group of individuals	0.0	0.0	Div by 0	30% (+/-)	N/A
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX LT Billing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	100.0	100.0	0.00	30% (+/-)	Yes
% agencies	0.0	0.2	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	0.2	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	2.7	2.4	-9.53	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	97.3	96.9	-0.48	30% (+/-)	Yes
% residential treatment facilities	0.0	0.2	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	411	416	1.22	30% (+/-)	Yes
% organization is a subpart	11.2	11.3	0.95	30% (+/-)	Yes
% organization is not a subpart	49.6	52.9	6.55	30% (+/-)	Yes
% not answered	39.2	35.8	-8.57	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX OT Servicing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>OT Providers</b>					
Number of provider IDs	42,643	46,918	10.03	30% (+/-)	Yes
% billing provider on OT claim	67.7	69.3	2.28	N/A	N/A
% servicing provider on OT claim	99.1	99.2	0.01	N/A	N/A
% NPI servicing provider on OT claim	53.9	52.6	-2.46	N/A	N/A
% also a provider on IP claim	0.8	0.9	4.82	N/A	N/A
% also a provider on LT claim	0.9	0.8	-7.68	N/A	N/A
% also a provider on RX claim	53.1	49.5	-6.86	N/A	N/A
% provider IDs with NPI	62.5	61.0	-2.38	30% (+/-)	Yes
% provider IDs linked to NPPES	62.2	61.0	-1.92	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,340.5	1,086.9	-18.92	30% (+/-)	Yes
average number of beneficiaries with OT claims	193.0	197.3	2.22	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	26,635	28,607	7.40	30% (+/-)	Yes
% NPI source = MSIS	98.7	97.8	-0.93	30% (+/-)	Yes
% NPI source = NPPES	1.3	2.2	70.61	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	26,509	28,607	7.91	30% (+/-)	Yes
% linked via NPI	98.7	97.8	-0.93	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.3	2.2	70.71	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-6.67	30% (+/-)	Yes
% with name prefix	24.0	24.6	2.69	30% (+/-)	Yes
% with first name	64.8	65.8	1.51	30% (+/-)	Yes
% with middle name	53.1	53.9	1.57	30% (+/-)	Yes
% with last name	64.8	65.8	1.51	30% (+/-)	Yes
% with name suffix	0.8	0.8	-1.61	30% (+/-)	Yes
% male	32.8	33.2	0.94	30% (+/-)	Yes
% female	32.0	32.6	2.10	30% (+/-)	Yes
% with credential	61.4	62.4	1.65	30% (+/-)	Yes
% with business name	35.2	33.8	-3.88	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30% (+/-)	Yes
% with city	100.0	99.6	-0.39	30% (+/-)	Yes
% with state	100.0	99.6	-0.39	30% (+/-)	Yes
% state = OT state code	71.3	69.2	-3.00	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.39	30% (+/-)	Yes
% with primary taxonomy	99.5	97.9	-1.61	30% (+/-)	Yes
% with provider entity type = individual	64.8	65.8	1.51	30% (+/-)	Yes
% with provider entity type = organization	35.2	33.8	-3.88	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	26,501	28,018	5.72	30% (+/-)	Yes
% individual or group of individuals	68.7	69.6	1.26	30% (+/-)	Yes
% allopathic and osteopathic physicians	23.1	24.0	3.84	30% (+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX OT Servicing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	11.0	10.9	-0.92	30% (+/-)	Yes
% chiropractic providers	4.3	4.3	0.16	30% (+/-)	Yes
% dental providers	4.5	4.5	0.35	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.1	147.62	30% (+/-)	Yes
% eye and vision service providers	2.8	2.3	-14.99	30% (+/-)	Yes
% nursing service providers	0.4	0.5	14.79	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	0.00	30% (+/-)	Yes
% other service providers	0.2	0.7	264.58	30% (+/-)	Yes
% pharmacy service providers	0.0	0.1	787.50	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	10.7	10.9	2.20	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.5	0.4	-14.26	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	8.2	8.3	2.19	30% (+/-)	Yes
% speech, language, and hearing service providers	2.3	2.2	-6.31	30% (+/-)	Yes
% student health care	0.0	0.1	3,375.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	387.50	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	31.3	30.4	-2.76	30% (+/-)	Yes
% agencies	3.5	3.5	-1.58	30% (+/-)	Yes
% ambulatory health care facilities	3.4	2.9	-16.33	30% (+/-)	Yes
% hospital units	0.0	0.0	66.67	30% (+/-)	Yes
% hospitals	13.7	13.7	-0.25	30% (+/-)	Yes
% laboratories	0.6	0.6	3.14	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	2.0	1.9	-5.94	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-9.33	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	6.2	6.2	-0.23	30% (+/-)	Yes
% transportation services	1.7	1.6	-7.09	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	17,181	18,821	9.55	30% (+/-)	Yes
% a sole proprietorship	12.1	12.4	1.96	30% (+/-)	Yes
% not a sole proprietorship	75.8	77.2	1.78	30% (+/-)	Yes
% not answered	12.0	10.4	-13.18	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	9,328	9,676	3.73	30% (+/-)	Yes
% organization is a subpart	12.7	13.5	7.03	30% (+/-)	Yes
% organization is not a subpart	74.2	74.5	0.44	30% (+/-)	Yes
% not answered	13.2	11.9	-9.25	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

# 2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>OT Providers</b>					
Number of provider IDs	30,467	34,286	12.53	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	93.7	93.7	0.05	N/A	N/A
% NPI servicing provider on OT claim	51.3	51.5	0.42	N/A	N/A
% also a provider on IP claim	1.2	1.2	1.88	N/A	N/A
% also a provider on LT claim	1.3	1.2	-9.74	N/A	N/A
% also a provider on RX claim	56.9	55.2	-3.08	N/A	N/A
% provider IDs with NPI	52.7	53.6	1.70	30% (+/-)	Yes
% provider IDs linked to NPPES	52.4	53.6	2.31	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	2,004.4	1,733.2	-13.53	30% (+/-)	Yes
average number of beneficiaries with OT claims	292.6	297.8	1.76	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	16,046	18,364	14.45	30% (+/-)	Yes
% NPI source = MSIS	98.0	96.6	-1.45	30% (+/-)	Yes
% NPI source = NPPES	2.0	3.4	70.22	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	15,950	18,364	15.13	30% (+/-)	Yes
% linked via NPI	98.0	96.6	-1.44	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	2.0	3.4	69.64	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	15.79	30% (+/-)	Yes
% with name prefix	25.9	26.5	2.53	30% (+/-)	Yes
% with first name	62.0	64.7	4.41	30% (+/-)	Yes
% with middle name	50.8	53.2	4.75	30% (+/-)	Yes
% with last name	62.0	64.7	4.41	30% (+/-)	Yes
% with name suffix	0.8	0.7	-3.14	30% (+/-)	Yes
% male	33.2	34.2	3.21	30% (+/-)	Yes
% female	28.8	30.5	5.80	30% (+/-)	Yes
% with credential	59.2	61.6	4.02	30% (+/-)	Yes
% with business name	38.0	34.8	-8.42	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.46	30% (+/-)	Yes
% with city	100.0	99.5	-0.46	30% (+/-)	Yes
% with state	100.0	99.5	-0.46	30% (+/-)	Yes
% state = OT state code	83.4	78.7	-5.60	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.46	30% (+/-)	Yes
% with primary taxonomy	99.3	97.6	-1.71	30% (+/-)	Yes
% with provider entity type = individual	62.0	64.7	4.41	30% (+/-)	Yes
% with provider entity type = organization	38.0	34.8	-8.42	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	15,921	17,923	12.57	30% (+/-)	Yes
% individual or group of individuals	68.3	70.7	3.58	30% (+/-)	Yes
% allopathic and osteopathic physicians	22.5	24.9	10.63	30% (+/-)	Yes

Source: Medicaid Analytic eExtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

# 2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	12.2	12.7	4.12	30% (+/-)	Yes
% chiropractic providers	5.1	4.9	-5.42	30% (+/-)	Yes
% dental providers	5.0	4.4	-12.07	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.1	0.2	134.78	30% (+/-)	Yes
% eye and vision service providers	3.5	2.8	-20.19	30% (+/-)	Yes
% nursing service providers	0.4	0.4	-1.04	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-15.38	30% (+/-)	Yes
% other service providers	0.3	0.8	169.81	30% (+/-)	Yes
% pharmacy service providers	0.0	0.1	800.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	10.5	10.8	2.76	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.5	-20.82	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	5.5	6.5	17.97	30% (+/-)	Yes
% speech, language, and hearing service providers	1.7	1.7	-2.52	30% (+/-)	Yes
% student health care	0.0	0.1	1,483.33	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.1	284.62	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	31.7	29.3	-7.70	30% (+/-)	Yes
% agencies	5.1	4.9	-2.79	30% (+/-)	Yes
% ambulatory health care facilities	5.1	3.8	-25.65	30% (+/-)	Yes
% hospital units	0.0	0.0	32.00	30% (+/-)	Yes
% hospitals	4.9	5.2	4.89	30% (+/-)	Yes
% laboratories	0.9	0.9	-2.85	30% (+/-)	Yes
% managed care organizations	0.0	0.0	450.00	30% (+/-)	Yes
% nursing and custodial care facilities	2.4	2.2	-9.53	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-11.11	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	10.3	9.6	-6.29	30% (+/-)	Yes
% transportation services	2.9	2.5	-12.55	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	9,889	11,888	20.21	30% (+/-)	Yes
% a sole proprietorship	13.4	13.1	-1.94	30% (+/-)	Yes
% not a sole proprietorship	77.7	78.5	0.99	30% (+/-)	Yes
% not answered	8.9	8.4	-5.73	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	6,061	6,391	5.44	30% (+/-)	Yes
% organization is a subpart	15.9	16.2	2.02	30% (+/-)	Yes
% organization is not a subpart	67.3	69.0	2.53	30% (+/-)	Yes
% not answered	16.8	14.7	-12.07	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.



# 2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>RX Providers</b>					
Number of provider IDs	1,406	1,406	0.00	30% (+/-)	Yes
% billing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% prescribing provider on RX claim	21.2	6.4	-69.80	N/A	N/A
% NPI billing provider on RX claim	99.7	99.8	0.07	N/A	N/A
% also a provider on IP claim	0.3	0.2	-25.00	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	84.8	86.2	1.68	N/A	N/A
% provider IDs with NPI	99.7	99.8	0.07	30% (+/-)	Yes
% provider IDs linked to NPPES	98.1	99.8	1.74	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	9,679.3	10,426.5	7.72	30% (+/-)	Yes
average number of beneficiaries with RX claims	916.7	970.8	5.90	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	1,402	1,403	0.07	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	1,379	1,403	1.74	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.1	0.1	-2.74	30% (+/-)	Yes
% with first name	0.1	0.1	-2.74	30% (+/-)	Yes
% with middle name	0.1	0.1	-2.74	30% (+/-)	Yes
% with last name	0.1	0.1	-2.74	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.1	0.1	-2.74	30% (+/-)	Yes
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.1	0.1	-2.74	30% (+/-)	Yes
% with business name	99.9	98.4	-1.57	30% (+/-)	Yes
% with address line 1	100.0	98.4	-1.57	30% (+/-)	Yes
% with city	100.0	98.4	-1.57	30% (+/-)	Yes
% with state	100.0	98.4	-1.57	30% (+/-)	Yes
% state = RX state code	88.5	85.2	-3.72	30% (+/-)	Yes
% with zip code	100.0	98.4	-1.57	30% (+/-)	Yes
% with primary taxonomy	99.9	97.1	-2.85	30% (+/-)	Yes
% with provider entity type = individual	0.1	0.1	-2.74	30% (+/-)	Yes
% with provider entity type = organization	99.9	98.4	-1.57	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	1,401	1,362	-2.78	30% (+/-)	Yes
% individual or group of individuals	0.8	2.4	208.66	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.4	0.4	2.80	30% (+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

# 2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.1	1.9	1,234.97	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	99.2	97.6	-1.65	30% (+/-)	Yes
% agencies	0.6	1.2	94.39	30% (+/-)	Yes
% ambulatory health care facilities	4.1	4.0	-2.46	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.2	0.4	106.07	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	94.2	91.9	-2.51	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	1	1	0.00	30% (+/-)	Yes
% a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	1,378	1,380	0.15	30% (+/-)	Yes
% organization is a subpart	31.2	32.0	2.41	30% (+/-)	Yes
% organization is not a subpart	61.8	61.7	-0.03	30% (+/-)	Yes
% not answered	7.0	6.3	-10.44	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX RX Prescribing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>RX Providers</b>					
Number of provider IDs	47,796	36,224	-24.21	30% (+/-)	Yes
% billing provider on RX claim	0.6	0.2	-60.19	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.6	0.2	-60.74	N/A	N/A
% also a provider on IP claim	0.1	0.1	4.76	N/A	N/A
% also a provider on LT claim	0.0	0.0	175.00	N/A	N/A
% also a provider on OT claim	45.5	61.1	34.21	N/A	N/A
% provider IDs with NPI	15.7	20.6	31.40	30% (+/-)	No
% provider IDs linked to NPPES	15.6	20.6	32.05	30% (+/-)	No
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	361.2	434.2	20.22	30% (+/-)	Yes
average number of beneficiaries with RX claims	53.3	67.0	25.78	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	7,488	7,457	-0.41	30% (+/-)	Yes
% NPI source = MSIS	95.5	91.3	-4.33	30% (+/-)	Yes
% NPI source = NPPES	4.5	8.7	91.36	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	7,451	7,457	0.08	30% (+/-)	Yes
% linked via NPI	95.5	91.3	-4.31	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	4.3	8.6	97.37	30% (+/-)	Yes
% linked via Medicare UPIN	0.2	0.1	-50.23	30% (+/-)	Yes
% with name prefix	33.5	35.6	6.25	30% (+/-)	Yes
% with first name	81.7	85.1	4.12	30% (+/-)	Yes
% with middle name	68.5	71.4	4.25	30% (+/-)	Yes
% with last name	81.7	85.1	4.12	30% (+/-)	Yes
% with name suffix	1.2	1.1	-12.06	30% (+/-)	Yes
% male	45.8	48.1	4.86	30% (+/-)	Yes
% female	35.9	37.0	3.17	30% (+/-)	Yes
% with credential	79.3	82.9	4.52	30% (+/-)	Yes
% with business name	18.3	14.5	-20.61	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.40	30% (+/-)	Yes
% with city	100.0	99.6	-0.40	30% (+/-)	Yes
% with state	100.0	99.6	-0.40	30% (+/-)	Yes
% state = RX state code	74.5	72.6	-2.56	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.40	30% (+/-)	Yes
% with primary taxonomy	99.6	98.7	-0.96	30% (+/-)	Yes
% with provider entity type = individual	81.7	85.1	4.12	30% (+/-)	Yes
% with provider entity type = organization	18.3	14.5	-20.61	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	7,457	7,358	-1.33	30% (+/-)	Yes
% individual or group of individuals	82.8	86.5	4.47	30% (+/-)	Yes
% allopathic and osteopathic physicians	33.9	38.1	12.37	30% (+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX RX Prescribing Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	2.9	1.0	-64.34	30% (+/-)	Yes
% chiropractic providers	0.9	0.4	-58.81	30% (+/-)	Yes
% dental providers	13.7	14.3	4.11	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% eye and vision service providers	6.7	7.0	4.39	30% (+/-)	Yes
% nursing service providers	0.2	0.2	13.95	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.1	0.5	244.78	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	7.69	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	20.8	23.1	11.42	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.8	-11.89	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.0	0.5	-74.48	30% (+/-)	Yes
% speech, language, and hearing service providers	0.4	0.2	-52.74	30% (+/-)	Yes
% student health care	0.0	0.3	1,992.31	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	17.2	13.6	-21.43	30% (+/-)	Yes
% agencies	0.1	0.2	28.38	30% (+/-)	Yes
% ambulatory health care facilities	1.0	0.8	-14.18	30% (+/-)	Yes
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	12.2	11.3	-7.48	30% (+/-)	Yes
% laboratories	0.0	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.4	0.5	17.25	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	3.5	0.8	-78.26	30% (+/-)	Yes
% transportation services	0.0	0.0	7.69	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	6,088	6,344	4.20	30% (+/-)	Yes
% a sole proprietorship	10.5	9.8	-6.44	30% (+/-)	Yes
% not a sole proprietorship	79.1	81.3	2.80	30% (+/-)	Yes
% not answered	10.4	8.9	-14.75	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	1,363	1,083	-20.54	30% (+/-)	Yes
% organization is a subpart	8.8	6.4	-27.64	30% (+/-)	Yes
% organization is not a subpart	83.9	86.6	3.19	30% (+/-)	Yes
% not answered	7.3	7.0	-3.37	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX All Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>All Providers</b>					
Number of provider IDs	70,487	63,037	-10.57	30%(+/-)	Yes
% billing provider on IP claim	0.6	0.7	29.66	N/A	N/A
% NPI billing provider on IP claim	0.5	0.7	29.02	N/A	N/A
% billing provider on LT claim	0.6	0.7	13.22	N/A	N/A
% NPI billing provider on LT claim	0.6	0.7	13.21	N/A	N/A
% billing provider on OT claim	43.2	54.4	25.83	N/A	N/A
% servicing provider on OT claim	60.0	73.8	23.04	N/A	N/A
% NPI servicing provider on OT claim	32.6	39.1	20.00	N/A	N/A
% billing provider on RX claim	2.0	2.2	11.78	N/A	N/A
% prescribing provider on RX claim	67.8	57.5	-15.25	N/A	N/A
% NPI billing provider on RX claim	2.0	2.2	11.92	N/A	N/A
% billing provider	43.6	54.8	25.66	N/A	N/A
% NPI billing provider	3.1	3.6	15.30	N/A	N/A
% servicing provider	60.0	73.8	23.04	N/A	N/A
% NPI servicing provider	32.6	39.1	20.00	N/A	N/A
% prescribing provider	67.8	57.5	-15.25	N/A	N/A
% provider IDs with NPI	38.3	46.0	20.06	30%(+/-)	Yes
% provider IDs linked to NPPES	38.1	46.0	20.65	30%(+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of claims	1,337.6	1,460.6	9.19	30%(+/-)	Yes
average number of beneficiaries with claims	164.0	203.1	23.84	30%(+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	27,003	28,992	7.37	30%(+/-)	Yes
% NPI source = MSIS	98.4	97.4	-1.00	30%(+/-)	Yes
% NPI source = NPPES	1.6	2.6	62.15	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	26,870	28,992	7.90	30%(+/-)	Yes
% linked via NPI	98.4	97.4	-0.99	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	1.5	2.5	65.66	30%(+/-)	Yes
% linked via Medicare UPIN	0.1	0.0	-38.81	30%(+/-)	Yes
% with name prefix	23.8	24.4	2.63	30%(+/-)	Yes
% with first name	64.2	65.2	1.59	30%(+/-)	Yes
% with middle name	52.6	53.4	1.63	30%(+/-)	Yes
% with last name	64.2	65.2	1.59	30%(+/-)	Yes
% with name suffix	0.8	0.8	-1.75	30%(+/-)	Yes
% male	32.5	32.8	1.00	30%(+/-)	Yes
% female	31.7	32.4	2.19	30%(+/-)	Yes
% with credential	60.8	61.8	1.72	30%(+/-)	Yes
% with business name	35.8	34.4	-3.99	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.41	30%(+/-)	Yes
% with city	100.0	99.6	-0.41	30%(+/-)	Yes
% with state	100.0	99.6	-0.41	30%(+/-)	Yes
% state = claim file state code	71.2	69.0	-3.05	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.41	30%(+/-)	Yes

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**2009-2010 MAX All Provider Characteristics Validation Table**

State: WI

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% with primary taxonomy	99.6	97.9	-1.64	30%(+/-)	Yes
% with provider entity type = individual	64.2	65.2	1.59	30%(+/-)	Yes
% with provider entity type = organization	35.8	34.4	-3.99	30%(+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	26,869	28,388	5.65	30%(+/-)	Yes
% individual or group of individuals	68.1	69.1	1.43	30%(+/-)	Yes
% allopathic and osteopathic physicians	23.0	24.0	4.03	30%(+/-)	Yes
% behavioral health and social service providers	10.9	10.8	-0.80	30%(+/-)	Yes
% chiropractic providers	4.2	4.2	0.43	30%(+/-)	Yes
% dental providers	4.5	4.5	0.58	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-100.00	30%(+/-)	Yes
% emergency medical service providers	0.0	0.1	148.78	30%(+/-)	Yes
% eye and vision service providers	2.7	2.3	-15.04	30%(+/-)	Yes
% nursing service providers	0.4	0.5	14.73	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	0.00	30%(+/-)	Yes
% other service providers	0.2	0.7	259.28	30%(+/-)	Yes
% pharmacy service providers	0.0	0.1	1,257.14	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	10.6	10.8	2.31	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.5	0.4	-14.05	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	8.1	8.2	2.30	30%(+/-)	Yes
% speech, language, and hearing service providers	2.3	2.2	-6.24	30%(+/-)	Yes
% student health care	0.0	0.1	3,325.00	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	457.14	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	31.9	30.9	-3.05	30%(+/-)	Yes
% agencies	3.5	3.4	-1.43	30%(+/-)	Yes
% ambulatory health care facilities	3.5	2.9	-17.52	30%(+/-)	Yes
% hospital units	0.0	0.0	66.67	30%(+/-)	Yes
% hospitals	13.7	13.7	0.05	30%(+/-)	Yes
% laboratories	0.6	0.6	3.36	30%(+/-)	Yes
% managed care organizations	0.0	0.0	525.00	30%(+/-)	Yes
% nursing and custodial care facilities	2.1	2.0	-6.37	30%(+/-)	Yes
% residential treatment facilities	0.1	0.1	-5.41	30%(+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30%(+/-)	N/A
% suppliers	6.8	6.7	-1.67	30%(+/-)	Yes
% transportation services	1.7	1.6	-7.01	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	17,256	18,914	9.61	30%(+/-)	Yes
% a sole proprietorship	12.1	12.4	1.92	30%(+/-)	Yes
% not a sole proprietorship	75.9	77.3	1.79	30%(+/-)	Yes
% not answered	12.0	10.4	-13.31	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	9,614	9,960	3.60	30%(+/-)	Yes
% organization is a subpart	12.8	13.7	7.30	30%(+/-)	Yes
% organization is not a subpart	74.0	74.2	0.30	30%(+/-)	Yes
% not answered	13.3	12.1	-8.70	N/A	N/A

Source: Medicaid Analytic eXtract (MAX) Provider Characteristics Files, 2009-2010.

<sup>a</sup> "Yes" signifies that either (1) the percent change between 2009 and 2010 is within the cross-year expected range or (2) both the 2009 and the 2010 values are less than 10. "No" signifies that both (1) the percent change between 2009 and 2010 is over or under the cross-year expected range and (2) either the 2009 or the 2010 value is greater than 10.

**This page has been left blank for double-sided copying.**

# **MATHEMATICA** Policy Research

[www.mathematica-mpr.com](http://www.mathematica-mpr.com)

Improving public well-being by conducting high-quality, objective research and surveys

Princeton, NJ ■ Ann Arbor, MI ■ Cambridge, MA ■ Chicago, IL ■ Oakland, CA ■ Washington, DC

Mathematica® is a registered trademark of Mathematica Policy Research