

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

**State-Specific Validation Tables,
2010**

Minnesota

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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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

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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.¹ 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

¹ 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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	805	880	9.32	30% (+/-)	Yes
% billing provider on IP claim	50.1	50.0	-0.12	N/A	N/A
% NPI billing provider on IP claim	49.9	50.0	0.12	N/A	N/A
% also a provider on LT claim	14.3	18.8	31.25	N/A	N/A
% also a provider on OT claim	86.6	86.9	0.40	N/A	N/A
% also a provider on RX claim	7.1	5.2	-26.18	N/A	N/A
% provider IDs with NPI	90.9	92.2	1.35	30% (+/-)	Yes
% provider IDs linked to NPPES	90.8	92.0	1.36	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	277.0	282.9	2.12	30% (+/-)	Yes
average number of beneficiaries with IP claims	218.0	221.6	1.62	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	732	811	10.79	30% (+/-)	Yes
% NPI source = MSIS	94.7	95.1	0.42	30% (+/-)	Yes
% NPI source = NPPES	5.3	4.9	-7.43	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	731	810	10.81	30% (+/-)	Yes
% linked via NPI	94.7	95.1	0.42	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	5.3	4.9	-7.44	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.1	0.1	-10.22	30% (+/-)	Yes
% with first name	0.1	0.1	-10.22	30% (+/-)	Yes
% with middle name	0.1	0.1	-10.22	30% (+/-)	Yes
% with last name	0.1	0.1	-10.22	30% (+/-)	Yes
% 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	0.1	0.1	-10.22	30% (+/-)	Yes
% with credential	0.1	0.1	-10.22	30% (+/-)	Yes
% with business name	99.9	99.9	0.01	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	40.6	35.8	-11.88	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.7	99.5	-0.22	30% (+/-)	Yes
% with provider entity type = individual	0.1	0.1	-10.22	30% (+/-)	Yes
% with provider entity type = organization	99.9	99.9	0.01	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	730	806	10.41	30% (+/-)	Yes
% individual or group of individuals	2.6	0.2	-90.47	30% (+/-)	Yes
% allopathic and osteopathic physicians	2.5	0.1	-94.97	30% (+/-)	Yes
% behavioral health and social service providers	0.1	0.1	-9.49	30% (+/-)	Yes

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^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	0.0	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	97.4	99.8	2.42	30% (+/-)	Yes
% agencies	0.0	0.2	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.7	0.9	26.72	30% (+/-)	Yes
% hospital units	11.2	10.3	-8.32	30% (+/-)	Yes
% hospitals	85.1	88.1	3.55	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	0.3	0.0	-100.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.1	0.2	81.02	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
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	1	1	0.00	30% (+/-)	Yes
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	730	809	10.82	30% (+/-)	Yes
% organization is a subpart	9.9	9.5	-3.50	30% (+/-)	Yes
% organization is not a subpart	79.2	80.7	1.94	30% (+/-)	Yes
% not answered	11.0	9.8	-10.90	N/A	N/A

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	1,691	1,644	-2.78	30% (+/-)	Yes
% billing provider on LT claim	51.0	51.2	0.24	N/A	N/A
% NPI billing provider on LT claim	49.0	48.8	-0.25	N/A	N/A
% also a provider on IP claim	6.8	10.0	47.57	N/A	N/A
% also a provider on OT claim	69.6	70.7	1.55	N/A	N/A
% also a provider on RX claim	1.1	1.5	35.32	N/A	N/A
% provider IDs with NPI	98.3	96.6	-1.72	30% (+/-)	Yes
% provider IDs linked to NPPES	97.3	95.4	-2.02	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	584.5	636.8	8.93	30% (+/-)	Yes
average number of beneficiaries with LT claims	39.4	42.5	7.74	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,662	1,588	-4.45	30% (+/-)	Yes
% NPI source = MSIS	98.7	98.4	-0.25	30% (+/-)	Yes
% NPI source = NPPES	1.3	1.6	18.88	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,646	1,568	-4.74	30% (+/-)	Yes
% linked via NPI	98.7	98.4	-0.26	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.3	1.6	19.22	30% (+/-)	Yes
% 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	0.1	0.0	-100.00	30% (+/-)	Yes
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.1	0.0	-100.00	30% (+/-)	Yes
% 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	0.1	0.0	-100.00	30% (+/-)	Yes
% with credential	0.1	0.0	-100.00	30% (+/-)	Yes
% with business name	99.9	100.0	0.06	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	94.4	94.6	0.31	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.3	97.9	-1.39	30% (+/-)	Yes
% with provider entity type = individual	0.1	0.0	-100.00	30% (+/-)	Yes
% with provider entity type = organization	99.9	100.0	0.06	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,642	1,535	-6.52	30% (+/-)	Yes
% individual or group of individuals	5.2	0.6	-88.68	30% (+/-)	Yes
% allopathic and osteopathic physicians	3.7	0.0	-100.00	30% (+/-)	Yes
% behavioral health and social service providers	0.9	0.5	-50.11	30% (+/-)	Yes

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^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	0.1	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% nursing service-related providers	0.2	0.0	-100.00	30% (+/-)	Yes
% other service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.1	0.0	-100.00	30% (+/-)	Yes
% 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	94.8	99.4	4.84	30% (+/-)	Yes
% agencies	2.7	2.2	-17.35	30% (+/-)	Yes
% ambulatory health care facilities	0.8	0.1	-91.79	30% (+/-)	Yes
% hospital units	3.0	5.2	71.17	30% (+/-)	Yes
% hospitals	9.4	12.6	34.05	30% (+/-)	No
% 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	67.7	76.4	12.74	30% (+/-)	Yes
% residential treatment facilities	10.8	2.3	-78.37	30% (+/-)	No
% respite care facility	0.0	0.1	Div by 0	30% (+/-)	N/A
% suppliers	0.4	0.5	42.74	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
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	1	0	-100.00	30% (+/-)	Yes
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	100.0	0.0	-100.00	30% (+/-)	No
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,645	1,568	-4.68	30% (+/-)	Yes
% organization is a subpart	15.7	16.2	2.88	30% (+/-)	Yes
% organization is not a subpart	45.2	48.0	6.32	30% (+/-)	Yes
% not answered	39.1	35.8	-8.47	N/A	N/A

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	111,728	118,305	5.89	30% (+/-)	Yes
% billing provider on OT claim	21.2	20.6	-3.06	N/A	N/A
% servicing provider on OT claim	22.7	22.0	-2.81	N/A	N/A
% NPI servicing provider on OT claim	77.3	78.0	0.82	N/A	N/A
% also a provider on IP claim	0.5	0.5	0.82	N/A	N/A
% also a provider on LT claim	0.9	0.8	-9.04	N/A	N/A
% also a provider on RX claim	15.2	14.8	-2.88	N/A	N/A
% provider IDs with NPI	91.9	92.2	0.26	30% (+/-)	Yes
% provider IDs linked to NPPES	48.3	48.4	0.20	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	988.1	1,041.1	5.36	30% (+/-)	Yes
average number of beneficiaries with OT claims	108.4	114.3	5.37	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	102,718	109,049	6.16	30% (+/-)	Yes
% NPI source = MSIS	96.5	96.4	-0.05	30% (+/-)	Yes
% NPI source = NPPES	3.5	3.6	1.34	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	54,012	57,306	6.10	30% (+/-)	Yes
% linked via NPI	93.3	93.2	-0.10	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	6.7	6.8	1.41	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	0.00	30% (+/-)	Yes
% with name prefix	22.5	22.7	1.01	30% (+/-)	Yes
% with first name	69.4	69.4	-0.03	30% (+/-)	Yes
% with middle name	58.3	58.1	-0.37	30% (+/-)	Yes
% with last name	69.4	69.4	-0.03	30% (+/-)	Yes
% with name suffix	1.0	0.9	-2.08	30% (+/-)	Yes
% male	38.5	37.6	-2.26	30% (+/-)	Yes
% female	30.9	31.8	2.76	30% (+/-)	Yes
% with credential	65.1	65.2	0.11	30% (+/-)	Yes
% with business name	30.6	30.3	-1.04	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.34	30% (+/-)	Yes
% with city	100.0	99.7	-0.34	30% (+/-)	Yes
% with state	100.0	99.7	-0.34	30% (+/-)	Yes
% state = OT state code	82.8	82.0	-1.07	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.34	30% (+/-)	Yes
% with primary taxonomy	99.0	98.1	-0.86	30% (+/-)	Yes
% with provider entity type = individual	69.4	69.4	-0.03	30% (+/-)	Yes
% with provider entity type = organization	30.6	30.3	-1.04	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	63,749	56,221	-11.81	30% (+/-)	Yes
% individual or group of individuals	56.6	73.1	29.22	30% (+/-)	Yes
% allopathic and osteopathic physicians	27.3	35.8	31.40	30% (+/-)	No

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	6.4	9.0	40.20	30% (+/-)	Yes
% chiropractic providers	3.0	3.4	15.96	30% (+/-)	Yes
% dental providers	4.3	5.0	15.16	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.4	48.98	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	175.00	30% (+/-)	Yes
% eye and vision service providers	1.7	2.0	15.88	30% (+/-)	Yes
% nursing service providers	0.3	0.4	58.70	30% (+/-)	Yes
% nursing service-related providers	1.1	0.0	-97.48	30% (+/-)	Yes
% other service providers	0.6	1.1	75.61	30% (+/-)	Yes
% pharmacy service providers	0.1	0.2	42.31	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	7.3	11.1	51.92	30% (+/-)	No
% podiatric medicine and surgery service providers	0.4	0.5	29.97	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.0	2.8	40.75	30% (+/-)	Yes
% speech, language, and hearing service providers	0.8	1.2	39.62	30% (+/-)	Yes
% student health care	0.1	0.2	124.04	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-9.09	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.9	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	43.4	26.9	-38.06	30% (+/-)	No
% agencies	14.9	3.6	-75.59	30% (+/-)	No
% ambulatory health care facilities	5.0	2.6	-48.19	30% (+/-)	Yes
% hospital units	0.1	0.1	42.86	30% (+/-)	Yes
% hospitals	14.2	12.1	-14.63	30% (+/-)	Yes
% laboratories	0.2	0.6	132.35	30% (+/-)	Yes
% managed care organizations	0.0	0.1	38.89	30% (+/-)	Yes
% nursing and custodial care facilities	3.7	2.0	-44.98	30% (+/-)	Yes
% residential treatment facilities	0.5	0.7	38.27	30% (+/-)	Yes
% respite care facility	0.0	0.0	25.00	30% (+/-)	Yes
% suppliers	4.2	4.4	5.88	30% (+/-)	Yes
% transportation services	0.6	0.7	15.23	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	37,486	39,761	6.07	30% (+/-)	Yes
% a sole proprietorship	12.2	12.3	0.57	30% (+/-)	Yes
% not a sole proprietorship	72.8	74.8	2.77	30% (+/-)	Yes
% not answered	15.0	12.9	-13.92	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	16,526	17,352	5.00	30% (+/-)	Yes
% organization is a subpart	10.8	11.3	4.94	30% (+/-)	Yes
% organization is not a subpart	73.2	73.7	0.59	30% (+/-)	Yes
% not answered	15.9	15.0	-6.06	N/A	N/A

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	86,854	92,851	6.90	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	27.3	26.2	-3.99	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.4	0.4	2.76	N/A	N/A
% also a provider on LT claim	0.7	0.6	-7.41	N/A	N/A
% also a provider on RX claim	25.0	24.2	-2.95	N/A	N/A
% provider IDs with NPI	22.0	21.4	-2.91	30% (+/-)	Yes
% provider IDs linked to NPPES	19.6	19.2	-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	743.9	821.6	10.44	30% (+/-)	Yes
average number of beneficiaries with OT claims	74.6	82.0	9.94	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	19,100	19,826	3.80	30% (+/-)	Yes
% NPI source = MSIS	67.3	66.8	-0.78	30% (+/-)	Yes
% NPI source = NPPES	32.7	33.2	1.60	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	17,026	17,781	4.43	30% (+/-)	Yes
% linked via NPI	63.3	63.0	-0.57	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	36.6	37.0	0.96	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	28.57	30% (+/-)	Yes
% with name prefix	13.2	13.0	-1.40	30% (+/-)	Yes
% with first name	40.5	40.5	-0.12	30% (+/-)	Yes
% with middle name	35.1	34.9	-0.38	30% (+/-)	Yes
% with last name	40.5	40.5	-0.12	30% (+/-)	Yes
% with name suffix	0.6	0.6	-0.18	30% (+/-)	Yes
% male	23.9	23.5	-1.49	30% (+/-)	Yes
% female	16.7	17.0	1.83	30% (+/-)	Yes
% with credential	38.1	38.1	0.19	30% (+/-)	Yes
% with business name	59.5	59.3	-0.27	30% (+/-)	Yes
% with address line 1	100.0	99.8	-0.21	30% (+/-)	Yes
% with city	100.0	99.8	-0.21	30% (+/-)	Yes
% with state	100.0	99.8	-0.21	30% (+/-)	Yes
% state = OT state code	85.6	86.2	0.72	30% (+/-)	Yes
% with zip code	100.0	99.8	-0.21	30% (+/-)	Yes
% with primary taxonomy	99.5	98.8	-0.67	30% (+/-)	Yes
% with provider entity type = individual	40.5	40.5	-0.12	30% (+/-)	Yes
% with provider entity type = organization	59.5	59.3	-0.27	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	17,122	17,567	2.60	30% (+/-)	Yes
% individual or group of individuals	37.1	43.8	18.05	30% (+/-)	Yes
% allopathic and osteopathic physicians	17.6	22.7	28.86	30% (+/-)	Yes

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	5.2	5.7	9.96	30% (+/-)	Yes
% chiropractic providers	2.6	2.4	-8.16	30% (+/-)	Yes
% dental providers	2.5	2.2	-12.46	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	3.41	30% (+/-)	Yes
% emergency medical service providers	0.0	0.1	183.33	30% (+/-)	Yes
% eye and vision service providers	1.9	1.7	-7.93	30% (+/-)	Yes
% nursing service providers	0.3	0.3	11.54	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-41.38	30% (+/-)	Yes
% other service providers	0.4	0.8	85.27	30% (+/-)	Yes
% pharmacy service providers	0.1	0.2	51.43	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	4.4	5.9	33.61	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.2	0.3	37.14	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.0	0.9	-12.95	30% (+/-)	Yes
% speech, language, and hearing service providers	0.6	0.6	0.94	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	183.33	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	62.9	56.2	-10.64	30% (+/-)	Yes
% agencies	5.2	5.1	-2.00	30% (+/-)	Yes
% ambulatory health care facilities	4.7	3.5	-25.51	30% (+/-)	Yes
% hospital units	0.2	0.3	61.50	30% (+/-)	Yes
% hospitals	38.4	32.1	-16.31	30% (+/-)	Yes
% laboratories	0.2	0.8	254.81	30% (+/-)	Yes
% managed care organizations	0.0	0.0	17.24	30% (+/-)	Yes
% nursing and custodial care facilities	3.6	3.8	4.90	30% (+/-)	Yes
% residential treatment facilities	0.9	1.0	8.18	30% (+/-)	Yes
% respite care facility	0.0	0.0	-2.86	30% (+/-)	Yes
% suppliers	8.7	8.6	-1.61	30% (+/-)	Yes
% transportation services	0.9	1.0	4.39	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	6,896	7,193	4.31	30% (+/-)	Yes
% a sole proprietorship	14.9	14.0	-5.90	30% (+/-)	Yes
% not a sole proprietorship	82.3	83.6	1.48	30% (+/-)	Yes
% not answered	2.7	2.4	-12.26	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	10,130	10,551	4.16	30% (+/-)	Yes
% organization is a subpart	11.8	12.4	4.85	30% (+/-)	Yes
% organization is not a subpart	77.7	77.6	-0.16	30% (+/-)	Yes
% not answered	10.5	10.1	-4.26	N/A	N/A

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	2,816	2,939	4.37	30% (+/-)	Yes
% billing provider on RX claim	50.0	50.0	-0.03	N/A	N/A
% prescribing provider on RX claim	30.0	5.7	-80.97	N/A	N/A
% NPI billing provider on RX claim	50.0	50.0	0.03	N/A	N/A
% also a provider on IP claim	0.6	0.5	-14.87	N/A	N/A
% also a provider on LT claim	0.2	0.3	59.62	N/A	N/A
% also a provider on OT claim	78.4	80.5	2.62	N/A	N/A
% provider IDs with NPI	99.3	99.6	0.27	30% (+/-)	Yes
% provider IDs linked to NPPES	97.3	99.6	2.36	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	7,895.7	12,060.1	52.74	30% (+/-)	No
average number of beneficiaries with RX claims	639.2	651.9	1.99	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2,797	2,927	4.65	30% (+/-)	Yes
% NPI source = MSIS	99.5	99.4	-0.08	30% (+/-)	Yes
% NPI source = NPPES	0.5	0.6	15.97	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	2,739	2,926	6.83	30% (+/-)	Yes
% linked via NPI	99.5	99.4	-0.07	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.5	0.6	13.70	30% (+/-)	Yes
% 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	98.5	-1.54	30% (+/-)	Yes
% with address line 1	100.0	98.5	-1.54	30% (+/-)	Yes
% with city	100.0	98.5	-1.54	30% (+/-)	Yes
% with state	100.0	98.5	-1.54	30% (+/-)	Yes
% state = RX state code	80.8	75.4	-6.69	30% (+/-)	Yes
% with zip code	100.0	98.5	-1.54	30% (+/-)	Yes
% with primary taxonomy	98.8	97.3	-1.52	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	98.5	-1.54	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	2,727	2,848	4.44	30% (+/-)	Yes
% individual or group of individuals	1.7	2.2	29.05	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.0	0.0	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	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	1.7	2.2	29.05	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	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	98.3	97.8	-0.50	30% (+/-)	Yes
% agencies	0.3	0.1	-52.22	30% (+/-)	Yes
% ambulatory health care facilities	0.2	0.2	11.82	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.7	0.6	-19.37	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	97.1	96.9	-0.23	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
Provider IDs with Entity Type = Individual					
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
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	2,739	2,881	5.18	30% (+/-)	Yes
% organization is a subpart	23.2	25.9	11.69	30% (+/-)	Yes
% organization is not a subpart	71.2	68.9	-3.22	30% (+/-)	Yes
% not answered	5.7	5.2	-7.39	N/A	N/A

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	23,385	23,660	1.18	30% (+/-)	Yes
% billing provider on RX claim	3.6	0.7	-80.38	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	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.2	0.1	-22.86	N/A	N/A
% also a provider on LT claim	0.1	0.1	12.50	N/A	N/A
% also a provider on OT claim	92.9	92.4	-0.60	N/A	N/A
% provider IDs with NPI	44.8	42.7	-4.68	30% (+/-)	Yes
% provider IDs linked to NPPES	44.8	42.7	-4.56	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	846.8	934.2	10.32	30% (+/-)	Yes
average number of beneficiaries with RX claims	97.6	82.8	-15.17	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	10,483	10,110	-3.56	30% (+/-)	Yes
% NPI source = MSIS	58.9	54.4	-7.57	30% (+/-)	Yes
% NPI source = NPPES	41.1	45.6	10.83	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	10,465	10,105	-3.44	30% (+/-)	Yes
% linked via NPI	58.8	54.4	-7.50	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	41.2	45.6	10.70	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	0.00	30% (+/-)	Yes
% with name prefix	12.9	13.8	6.86	30% (+/-)	Yes
% with first name	44.6	48.6	9.09	30% (+/-)	Yes
% with middle name	38.7	41.9	8.40	30% (+/-)	Yes
% with last name	44.6	48.6	9.09	30% (+/-)	Yes
% with name suffix	0.6	0.7	17.59	30% (+/-)	Yes
% male	28.2	30.1	6.83	30% (+/-)	Yes
% female	16.4	18.5	13.00	30% (+/-)	Yes
% with credential	41.9	45.9	9.71	30% (+/-)	Yes
% with business name	55.4	51.3	-7.45	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.08	30% (+/-)	Yes
% with city	100.0	99.9	-0.08	30% (+/-)	Yes
% with state	100.0	99.9	-0.08	30% (+/-)	Yes
% state = RX state code	84.3	85.0	0.89	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.08	30% (+/-)	Yes
% with primary taxonomy	99.8	99.4	-0.44	30% (+/-)	Yes
% with provider entity type = individual	44.6	48.6	9.09	30% (+/-)	Yes
% with provider entity type = organization	55.4	51.3	-7.45	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	10,458	10,045	-3.95	30% (+/-)	Yes
% individual or group of individuals	35.5	49.9	40.50	30% (+/-)	No
% allopathic and osteopathic physicians	24.6	35.7	45.20	30% (+/-)	No

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

^a "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: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.3	0.3	-16.72	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	-56.52	30% (+/-)	Yes
% dental providers	3.4	3.2	-5.30	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-65.52	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	1.9	2.1	6.70	30% (+/-)	Yes
% nursing service providers	0.1	0.1	126.32	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.3	0.9	199.35	30% (+/-)	Yes
% pharmacy service providers	0.1	0.0	-67.74	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	3.9	6.7	73.11	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.3	0.5	53.23	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.2	18.66	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	-47.37	30% (+/-)	Yes
% student health care	0.0	0.0	200.00	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	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	64.5	50.1	-22.28	30% (+/-)	Yes
% agencies	1.3	1.2	-6.10	30% (+/-)	Yes
% ambulatory health care facilities	3.0	1.6	-47.78	30% (+/-)	Yes
% hospital units	0.0	0.2	231.25	30% (+/-)	Yes
% hospitals	52.0	44.2	-15.06	30% (+/-)	Yes
% laboratories	0.2	1.1	602.45	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.2	0.2	-29.29	30% (+/-)	Yes
% residential treatment facilities	0.0	0.1	163.16	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	7.8	1.7	-78.68	30% (+/-)	Yes
% transportation services	0.0	0.1	106.90	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	4,663	4,912	5.34	30% (+/-)	Yes
% a sole proprietorship	7.3	6.6	-8.97	30% (+/-)	Yes
% not a sole proprietorship	90.8	91.7	0.99	30% (+/-)	Yes
% not answered	2.0	1.7	-12.40	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	5,802	5,185	-10.63	30% (+/-)	Yes
% organization is a subpart	11.6	11.2	-3.69	30% (+/-)	Yes
% organization is not a subpart	84.1	84.9	1.02	30% (+/-)	Yes
% not answered	4.3	3.9	-10.03	N/A	N/A

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

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2009-2010 MAX All Provider Characteristics Validation Table

State: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	177,640	189,753	6.82	30%(+/-)	Yes
% billing provider on IP claim	0.2	0.2	2.20	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	2.65	N/A	N/A
% billing provider on LT claim	0.5	0.4	-8.85	N/A	N/A
% NPI billing provider on LT claim	0.5	0.4	-9.23	N/A	N/A
% billing provider on OT claim	48.9	48.9	0.08	N/A	N/A
% servicing provider on OT claim	14.3	13.7	-3.65	N/A	N/A
% NPI servicing provider on OT claim	48.6	48.6	-0.06	N/A	N/A
% billing provider on RX claim	0.8	0.8	-2.40	N/A	N/A
% prescribing provider on RX claim	13.2	12.5	-5.28	N/A	N/A
% NPI billing provider on RX claim	0.8	0.8	-2.27	N/A	N/A
% billing provider	49.3	49.3	0.00	N/A	N/A
% NPI billing provider	1.4	1.4	-4.71	N/A	N/A
% servicing provider	14.3	13.7	-3.65	N/A	N/A
% NPI servicing provider	48.6	48.6	-0.06	N/A	N/A
% prescribing provider	13.2	12.5	-5.28	N/A	N/A
% provider IDs with NPI	60.7	60.3	-0.65	30%(+/-)	Yes
% provider IDs linked to NPPES	33.3	33.1	-0.69	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	909.0	1,036.5	14.03	30%(+/-)	Yes
average number of beneficiaries with claims	91.7	94.6	3.15	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	107,856	114,460	6.12	30%(+/-)	Yes
% NPI source = MSIS	93.9	93.9	0.01	30%(+/-)	Yes
% NPI source = NPPES	6.1	6.1	-0.18	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	59,118	62,714	6.08	30%(+/-)	Yes
% linked via NPI	88.9	88.9	0.02	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	11.1	11.1	-0.17	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	30.00	30%(+/-)	Yes
% with name prefix	21.6	21.8	1.05	30%(+/-)	Yes
% with first name	67.6	67.5	-0.13	30%(+/-)	Yes
% with middle name	56.9	56.7	-0.42	30%(+/-)	Yes
% with last name	67.6	67.5	-0.13	30%(+/-)	Yes
% with name suffix	0.9	0.9	-0.22	30%(+/-)	Yes
% male	37.4	36.6	-2.30	30%(+/-)	Yes
% female	30.2	31.0	2.57	30%(+/-)	Yes
% with credential	63.5	63.5	-0.01	30%(+/-)	Yes
% with business name	32.4	32.1	-0.78	30%(+/-)	Yes
% with address line 1	100.0	99.7	-0.34	30%(+/-)	Yes
% with city	100.0	99.7	-0.34	30%(+/-)	Yes
% with state	100.0	99.7	-0.34	30%(+/-)	Yes
% state = claim file state code	82.2	81.2	-1.13	30%(+/-)	Yes
% with zip code	100.0	99.7	-0.34	30%(+/-)	Yes

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

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2009-2010 MAX All Provider Characteristics Validation Table

State: MN

Produced: 04/18/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.0	98.2	-0.82	30%(+/-)	Yes
% with provider entity type = individual	67.6	67.5	-0.13	30%(+/-)	Yes
% with provider entity type = organization	32.4	32.1	-0.78	30%(+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	68,839	61,581	-10.54	30%(+/-)	Yes
% individual or group of individuals	56.2	71.3	26.91	30%(+/-)	Yes
% allopathic and osteopathic physicians	26.8	34.4	28.49	30%(+/-)	Yes
% behavioral health and social service providers	6.4	8.8	38.59	30%(+/-)	Yes
% chiropractic providers	3.0	3.5	14.90	30%(+/-)	Yes
% dental providers	4.1	4.7	14.30	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.4	45.12	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	173.33	30%(+/-)	Yes
% eye and vision service providers	1.9	2.1	14.89	30%(+/-)	Yes
% nursing service providers	0.3	0.4	57.20	30%(+/-)	Yes
% nursing service-related providers	1.0	0.0	-97.48	30%(+/-)	Yes
% other service providers	0.6	1.0	72.19	30%(+/-)	Yes
% pharmacy service providers	0.2	0.2	38.75	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	7.6	11.2	46.70	30%(+/-)	No
% podiatric medicine and surgery service providers	0.4	0.5	28.65	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.0	2.7	35.92	30%(+/-)	Yes
% speech, language, and hearing service providers	0.8	1.1	38.24	30%(+/-)	Yes
% student health care	0.1	0.2	119.59	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-10.00	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.8	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	43.8	28.7	-34.52	30%(+/-)	No
% agencies	14.0	3.4	-75.48	30%(+/-)	No
% ambulatory health care facilities	4.8	2.5	-48.42	30%(+/-)	Yes
% hospital units	0.2	0.3	43.06	30%(+/-)	Yes
% hospitals	13.6	11.5	-15.16	30%(+/-)	Yes
% laboratories	0.2	0.5	121.37	30%(+/-)	Yes
% managed care organizations	0.0	0.0	36.36	30%(+/-)	Yes
% nursing and custodial care facilities	4.2	2.7	-34.49	30%(+/-)	Yes
% residential treatment facilities	0.5	0.7	30.73	30%(+/-)	Yes
% respite care facility	0.0	0.0	26.32	30%(+/-)	Yes
% suppliers	5.7	6.3	10.73	30%(+/-)	Yes
% transportation services	0.6	0.7	14.80	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	39,974	42,352	5.95	30%(+/-)	Yes
% a sole proprietorship	12.1	12.2	0.83	30%(+/-)	Yes
% not a sole proprietorship	73.9	75.7	2.50	30%(+/-)	Yes
% not answered	14.1	12.1	-13.82	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	19,144	20,150	5.25	30%(+/-)	Yes
% organization is a subpart	12.1	12.8	5.71	30%(+/-)	Yes
% organization is not a subpart	71.8	72.2	0.59	30%(+/-)	Yes
% not answered	16.0	14.9	-6.97	N/A	N/A

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

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