

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

**State-Specific Validation Tables,
2010**

Montana

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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Contract Number:
HHSM-500-2005-00025I

Task Number:
HHSM-500-T0002

Mathematica Reference Number:
06759.660

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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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	326	306	-6.13	30% (+/-)	Yes
% billing provider on IP claim	50.3	50.3	0.04	N/A	N/A
% NPI billing provider on IP claim	49.7	49.7	-0.04	N/A	N/A
% also a provider on LT claim	3.1	3.6	17.22	N/A	N/A
% also a provider on OT claim	86.5	84.3	-2.53	N/A	N/A
% also a provider on RX claim	2.1	3.3	52.21	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	100.0	100.0	0.00	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	152.1	160.2	5.33	30% (+/-)	Yes
average number of beneficiaries with IP claims	122.4	132.2	8.02	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	326	306	-6.13	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
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	326	306	-6.13	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	43.6	47.7	9.54	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.4	99.3	-0.04	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
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	324	304	-6.17	30% (+/-)	Yes
% individual or group of individuals	0.9	0.0	-100.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.6	0.0	-100.00	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.

^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: MT

Produced: 02/28/2013

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	0.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	99.1	100.0	0.93	30% (+/-)	Yes
% agencies	0.3	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	2.2	3.0	37.08	30% (+/-)	Yes
% hospital units	7.7	8.2	6.58	30% (+/-)	Yes
% hospitals	85.8	88.2	2.75	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	1.2	0.0	-100.00	30% (+/-)	Yes
% residential treatment facilities	0.6	0.7	6.65	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.3	0.0	-100.00	30% (+/-)	Yes
% transportation services	0.9	0.0	-100.00	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	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	326	306	-6.13	30% (+/-)	Yes
% organization is a subpart	8.9	10.8	21.22	30% (+/-)	Yes
% organization is not a subpart	78.2	82.0	4.86	30% (+/-)	Yes
% not answered	12.9	7.2	-44.19	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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	268	262	-2.24	30% (+/-)	Yes
% billing provider on LT claim	50.4	50.0	-0.74	N/A	N/A
% NPI billing provider on LT claim	49.6	50.0	0.75	N/A	N/A
% also a provider on IP claim	3.7	4.2	12.52	N/A	N/A
% also a provider on OT claim	28.0	28.6	2.29	N/A	N/A
% also a provider on RX claim	0.7	0.8	2.28	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	100.0	100.0	0.00	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	447.5	455.3	1.73	30% (+/-)	Yes
average number of beneficiaries with LT claims	42.2	42.8	1.36	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	268	262	-2.24	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
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	268	262	-2.24	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	88.8	91.6	3.15	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	98.1	97.7	-0.43	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
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	263	256	-2.66	30% (+/-)	Yes
% individual or group of individuals	6.5	0.0	-100.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.4	0.0	-100.00	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 LT Billing Provider Characteristics Validation Table

State: MT

Produced: 02/28/2013

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	4.2	0.0	-100.00	30% (+/-)	Yes
% speech, language, and hearing service providers	1.9	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	93.5	100.0	6.91	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.4	0.8	105.53	30% (+/-)	Yes
% hospital units	14.4	13.3	-8.08	30% (+/-)	Yes
% hospitals	9.9	16.4	65.95	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	60.8	62.5	2.73	30% (+/-)	Yes
% residential treatment facilities	8.0	7.0	-11.95	30% (+/-)	Yes
% 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
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	268	262	-2.24	30% (+/-)	Yes
% organization is a subpart	21.6	20.6	-4.76	30% (+/-)	Yes
% organization is not a subpart	48.5	59.5	22.75	30% (+/-)	Yes
% not answered	29.9	19.8	-33.51	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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	17,104	17,482	2.21	30% (+/-)	Yes
% billing provider on OT claim	26.2	22.5	-14.20	N/A	N/A
% servicing provider on OT claim	52.7	51.5	-2.37	N/A	N/A
% NPI servicing provider on OT claim	47.3	48.5	2.64	N/A	N/A
% also a provider on IP claim	1.6	0.7	-54.41	N/A	N/A
% also a provider on LT claim	0.4	0.4	-2.05	N/A	N/A
% also a provider on RX claim	17.9	18.0	0.39	N/A	N/A
% provider IDs with NPI	97.6	97.6	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	97.3	97.6	0.25	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	489.4	505.3	3.25	30% (+/-)	Yes
average number of beneficiaries with OT claims	85.9	89.6	4.40	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	16,686	17,054	2.21	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
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	16,644	17,054	2.46	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	28.8	30.6	5.97	30% (+/-)	Yes
% with first name	79.3	81.9	3.30	30% (+/-)	Yes
% with middle name	61.2	63.1	3.03	30% (+/-)	Yes
% with last name	79.3	81.9	3.30	30% (+/-)	Yes
% with name suffix	1.4	1.4	1.34	30% (+/-)	Yes
% male	48.1	49.1	2.10	30% (+/-)	Yes
% female	31.2	32.8	5.15	30% (+/-)	Yes
% with credential	74.0	76.7	3.70	30% (+/-)	Yes
% with business name	20.7	17.8	-14.24	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.33	30% (+/-)	Yes
% with city	100.0	99.7	-0.33	30% (+/-)	Yes
% with state	100.0	99.7	-0.33	30% (+/-)	Yes
% state = OT state code	62.4	61.7	-1.05	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.33	30% (+/-)	Yes
% with primary taxonomy	98.6	97.7	-0.91	30% (+/-)	Yes
% with provider entity type = individual	79.3	81.9	3.30	30% (+/-)	Yes
% with provider entity type = organization	20.7	17.8	-14.24	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	16,433	16,658	1.37	30% (+/-)	Yes
% individual or group of individuals	80.4	83.1	3.31	30% (+/-)	Yes
% allopathic and osteopathic physicians	47.2	48.3	2.46	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 Servicing Provider Characteristics Validation Table

State: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	7.1	7.3	4.01	30% (+/-)	Yes
% chiropractic providers	1.0	1.1	6.18	30% (+/-)	Yes
% dental providers	4.4	4.6	3.79	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.1	-22.35	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	-1.64	30% (+/-)	Yes
% eye and vision service providers	1.9	2.1	6.76	30% (+/-)	Yes
% nursing service providers	0.1	0.1	9.09	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	0.00	30% (+/-)	Yes
% other service providers	0.9	1.5	56.35	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	20.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	10.9	11.4	4.87	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.5	0.5	14.67	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.3	4.4	0.44	30% (+/-)	Yes
% speech, language, and hearing service providers	1.3	1.4	7.52	30% (+/-)	Yes
% student health care	0.1	0.1	80.82	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-2.04	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.4	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	19.6	16.9	-13.62	30% (+/-)	Yes
% agencies	4.1	3.9	-4.17	30% (+/-)	Yes
% ambulatory health care facilities	1.9	1.5	-20.94	30% (+/-)	Yes
% hospital units	0.1	0.0	-55.22	30% (+/-)	Yes
% hospitals	4.2	2.1	-48.37	30% (+/-)	Yes
% laboratories	0.7	0.9	27.95	30% (+/-)	Yes
% managed care organizations	0.0	0.0	0.00	30% (+/-)	Yes
% nursing and custodial care facilities	1.2	1.4	22.98	30% (+/-)	Yes
% residential treatment facilities	0.2	0.2	-11.76	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	5.8	5.5	-6.28	30% (+/-)	Yes
% transportation services	1.5	1.3	-7.88	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	13,197	13,968	5.84	30% (+/-)	Yes
% a sole proprietorship	18.7	19.5	4.09	30% (+/-)	Yes
% not a sole proprietorship	72.5	75.2	3.63	30% (+/-)	Yes
% not answered	8.8	5.4	-38.79	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	3,447	3,029	-12.13	30% (+/-)	Yes
% organization is a subpart	11.0	12.2	11.39	30% (+/-)	Yes
% organization is not a subpart	64.3	68.8	6.98	30% (+/-)	Yes
% not answered	24.7	19.0	-23.24	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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	5,601	5,547	-0.96	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	80.0	70.8	-11.44	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	2.5	2.3	-7.53	N/A	N/A
% also a provider on LT claim	0.2	0.2	1.02	N/A	N/A
% also a provider on RX claim	16.6	14.0	-16.06	N/A	N/A
% provider IDs with NPI	72.6	65.4	-9.85	30% (+/-)	Yes
% provider IDs linked to NPPES	72.4	65.4	-9.59	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	868.5	1,127.4	29.81	30% (+/-)	Yes
average number of beneficiaries with OT claims	126.3	155.8	23.39	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	4,066	3,630	-10.72	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
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	4,054	3,630	-10.46	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	26.7	28.2	5.90	30% (+/-)	Yes
% with first name	52.2	54.6	4.61	30% (+/-)	Yes
% with middle name	43.2	45.7	5.75	30% (+/-)	Yes
% with last name	52.2	54.6	4.61	30% (+/-)	Yes
% with name suffix	1.3	1.2	-8.03	30% (+/-)	Yes
% male	30.0	30.3	0.93	30% (+/-)	Yes
% female	22.2	24.3	9.57	30% (+/-)	Yes
% with credential	50.5	52.9	4.86	30% (+/-)	Yes
% with business name	47.8	45.1	-5.67	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.30	30% (+/-)	Yes
% with city	100.0	99.7	-0.30	30% (+/-)	Yes
% with state	100.0	99.7	-0.30	30% (+/-)	Yes
% state = OT state code	81.7	86.0	5.34	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.30	30% (+/-)	Yes
% with primary taxonomy	98.1	96.8	-1.32	30% (+/-)	Yes
% with provider entity type = individual	52.2	54.6	4.61	30% (+/-)	Yes
% with provider entity type = organization	47.8	45.1	-5.67	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	3,984	3,515	-11.77	30% (+/-)	Yes
% individual or group of individuals	55.9	56.6	1.28	30% (+/-)	Yes
% allopathic and osteopathic physicians	17.9	15.7	-12.28	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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	13.5	15.9	17.77	30% (+/-)	Yes
% chiropractic providers	1.7	1.9	10.05	30% (+/-)	Yes
% dental providers	7.7	9.0	17.03	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	12.70	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	14.00	30% (+/-)	Yes
% eye and vision service providers	2.5	2.5	1.79	30% (+/-)	Yes
% nursing service providers	0.1	0.1	52.00	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	12.00	30% (+/-)	Yes
% other service providers	1.1	1.1	-2.08	30% (+/-)	Yes
% pharmacy service providers	0.1	0.1	13.33	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	4.0	3.8	-5.19	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.5	0.5	7.08	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.1	3.5	-13.76	30% (+/-)	Yes
% speech, language, and hearing service providers	2.1	2.1	-0.29	30% (+/-)	Yes
% student health care	0.1	0.1	14.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	52.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.4	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	44.1	43.4	-1.62	30% (+/-)	Yes
% agencies	10.8	11.5	6.25	30% (+/-)	Yes
% ambulatory health care facilities	3.8	3.2	-15.73	30% (+/-)	Yes
% hospital units	0.2	0.1	-19.32	30% (+/-)	Yes
% hospitals	8.7	4.0	-53.75	30% (+/-)	Yes
% laboratories	1.4	2.0	45.66	30% (+/-)	Yes
% managed care organizations	0.1	0.1	14.00	30% (+/-)	Yes
% nursing and custodial care facilities	2.8	4.3	53.82	30% (+/-)	Yes
% residential treatment facilities	0.5	0.5	1.47	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	12.8	14.4	12.67	30% (+/-)	Yes
% transportation services	3.0	3.2	4.91	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	2,116	1,982	-6.33	30% (+/-)	Yes
% a sole proprietorship	38.4	43.7	13.85	30% (+/-)	Yes
% not a sole proprietorship	54.6	51.3	-5.99	30% (+/-)	Yes
% not answered	7.0	4.9	-29.30	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,938	1,637	-15.53	30% (+/-)	Yes
% organization is a subpart	10.7	11.5	7.57	30% (+/-)	Yes
% organization is not a subpart	63.6	68.2	7.24	30% (+/-)	Yes
% not answered	25.7	20.3	-21.08	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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	702	708	0.85	30% (+/-)	Yes
% billing provider on RX claim	50.1	50.0	-0.28	N/A	N/A
% prescribing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% NPI billing provider on RX claim	49.9	50.0	0.28	N/A	N/A
% also a provider on IP claim	0.7	0.7	-0.84	N/A	N/A
% also a provider on LT claim	0.3	0.3	-1.05	N/A	N/A
% also a provider on OT claim	30.2	29.7	-1.78	N/A	N/A
% provider IDs with NPI	99.9	100.0	0.14	30% (+/-)	Yes
% provider IDs linked to NPPES	99.3	100.0	0.72	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	2,779.4	2,953.4	6.26	30% (+/-)	Yes
average number of beneficiaries with RX claims	263.8	285.9	8.38	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	701	708	1.00	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
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	697	708	1.58	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	0.3	0.3	-1.74	30% (+/-)	Yes
% with first name	0.3	0.3	-1.74	30% (+/-)	Yes
% with middle name	0.3	0.3	-1.74	30% (+/-)	Yes
% with last name	0.3	0.3	-1.74	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.3	0.3	-1.74	30% (+/-)	Yes
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.3	0.3	-1.74	30% (+/-)	Yes
% with business name	99.7	98.9	-0.85	30% (+/-)	Yes
% with address line 1	100.0	99.2	-0.85	30% (+/-)	Yes
% with city	100.0	99.2	-0.85	30% (+/-)	Yes
% with state	100.0	99.2	-0.85	30% (+/-)	Yes
% state = RX state code	76.3	75.1	-1.55	30% (+/-)	Yes
% with zip code	100.0	99.2	-0.85	30% (+/-)	Yes
% with primary taxonomy	98.9	97.2	-1.70	30% (+/-)	Yes
% with provider entity type = individual	0.3	0.3	-1.74	30% (+/-)	Yes
% with provider entity type = organization	99.7	98.9	-0.85	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	693	688	-0.72	30% (+/-)	Yes
% individual or group of individuals	2.6	2.0	-21.64	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

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 RX Billing Provider Characteristics Validation Table

State: MT

Produced: 02/28/2013

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	0.3	0.0	-100.00	30% (+/-)	Yes
% 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	2.0	2.0	0.74	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	0.3	0.0	-100.00	30% (+/-)	Yes
% 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	98.0	0.58	30% (+/-)	Yes
% agencies	1.7	0.6	-66.45	30% (+/-)	Yes
% ambulatory health care facilities	0.3	0.9	201.73	30% (+/-)	Yes
% hospital units	0.3	0.0	-100.00	30% (+/-)	Yes
% hospitals	0.6	1.5	151.82	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	0.3	0.6	101.04	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	93.9	94.5	0.57	30% (+/-)	Yes
% transportation services	0.3	0.0	-100.00	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	2	2	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	695	700	0.72	30% (+/-)	Yes
% organization is a subpart	15.5	15.4	-0.71	30% (+/-)	Yes
% organization is not a subpart	73.0	75.7	3.79	30% (+/-)	Yes
% not answered	11.5	8.9	-23.06	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 RX Prescribing Provider Characteristics Validation Table

State: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	3,903	3,490	-10.58	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	Div by 0	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	0.1	0.1	180.39	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	74.6	86.1	15.44	N/A	N/A
% provider IDs with NPI	73.2	84.3	15.16	30% (+/-)	Yes
% provider IDs linked to NPPES	73.0	84.3	15.44	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	224.1	273.2	21.90	30% (+/-)	Yes
average number of beneficiaries with RX claims	36.6	44.7	22.16	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2,857	2,942	2.98	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.04	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	-100.00	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	2,850	2,942	3.23	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.04	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	-100.00	30% (+/-)	Yes
% with name prefix	34.9	35.8	2.62	30% (+/-)	Yes
% with first name	98.4	98.8	0.43	30% (+/-)	Yes
% with middle name	78.9	79.6	0.88	30% (+/-)	Yes
% with last name	98.4	98.8	0.43	30% (+/-)	Yes
% with name suffix	1.5	1.7	7.90	30% (+/-)	Yes
% male	61.6	61.1	-0.81	30% (+/-)	Yes
% female	36.8	37.8	2.50	30% (+/-)	Yes
% with credential	95.8	96.1	0.28	30% (+/-)	Yes
% with business name	1.6	0.8	-50.47	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.37	30% (+/-)	Yes
% with city	100.0	99.6	-0.37	30% (+/-)	Yes
% with state	100.0	99.6	-0.37	30% (+/-)	Yes
% state = RX state code	79.9	77.0	-3.64	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.37	30% (+/-)	Yes
% with primary taxonomy	98.5	98.3	-0.16	30% (+/-)	Yes
% with provider entity type = individual	98.4	98.8	0.43	30% (+/-)	Yes
% with provider entity type = organization	1.6	0.8	-50.47	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	2,812	2,893	2.88	30% (+/-)	Yes
% individual or group of individuals	98.4	99.4	1.03	30% (+/-)	Yes
% allopathic and osteopathic physicians	65.9	65.2	-1.02	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 RX Prescribing Provider Characteristics Validation Table

State: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.1	0.1	-51.41	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	-100.00	30% (+/-)	Yes
% dental providers	3.6	3.0	-18.03	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	-2.78	30% (+/-)	Yes
% eye and vision service providers	3.2	3.7	17.95	30% (+/-)	Yes
% nursing service providers	0.2	0.1	-67.61	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.8	2.6	45.78	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	21.4	23.1	7.70	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.2	1.3	8.94	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.1	188.89	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% student health care	0.1	0.2	70.42	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	0.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	1.6	0.6	-61.98	30% (+/-)	Yes
% agencies	0.0	0.1	91.67	30% (+/-)	Yes
% ambulatory health care facilities	0.4	0.1	-64.71	30% (+/-)	Yes
% hospital units	0.0	0.0	-2.78	30% (+/-)	Yes
% hospitals	0.4	0.2	-59.48	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	0.7	0.2	-70.89	30% (+/-)	Yes
% transportation services	0.0	0.0	-100.00	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	2,805	2,908	3.67	30% (+/-)	Yes
% a sole proprietorship	12.9	13.9	7.38	30% (+/-)	Yes
% not a sole proprietorship	75.2	79.6	5.93	30% (+/-)	Yes
% not answered	11.9	6.5	-45.29	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	45	23	-48.89	30% (+/-)	No
% organization is a subpart	11.1	8.7	-21.74	30% (+/-)	Yes
% organization is not a subpart	68.9	65.2	-5.33	30% (+/-)	Yes
% not answered	20.0	26.1	30.44	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: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	19,941	20,315	1.88	30%(+/-)	Yes
% billing provider on IP claim	0.8	0.8	-7.79	N/A	N/A
% NPI billing provider on IP claim	0.8	0.7	-7.88	N/A	N/A
% billing provider on LT claim	0.7	0.6	-4.73	N/A	N/A
% NPI billing provider on LT claim	0.7	0.6	-3.30	N/A	N/A
% billing provider on OT claim	28.1	27.3	-2.79	N/A	N/A
% servicing provider on OT claim	45.2	44.3	-2.05	N/A	N/A
% NPI servicing provider on OT claim	40.5	41.8	2.98	N/A	N/A
% billing provider on RX claim	1.8	1.7	-1.25	N/A	N/A
% prescribing provider on RX claim	19.6	17.2	-12.23	N/A	N/A
% NPI billing provider on RX claim	1.8	1.7	-0.68	N/A	N/A
% billing provider	30.6	29.8	-2.71	N/A	N/A
% NPI billing provider	3.2	3.1	-3.23	N/A	N/A
% servicing provider	45.2	44.3	-2.05	N/A	N/A
% NPI servicing provider	40.5	41.8	2.98	N/A	N/A
% prescribing provider	19.6	17.2	-12.23	N/A	N/A
% provider IDs with NPI	87.3	88.2	0.98	30%(+/-)	Yes
% provider IDs linked to NPPES	87.1	88.2	1.23	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	610.3	702.3	15.07	30%(+/-)	Yes
average number of beneficiaries with claims	96.0	109.5	14.08	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	17,414	17,914	2.87	30%(+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.01	30%(+/-)	Yes
% NPI source = NPPES	0.0	0.0	-100.00	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	17,370	17,914	3.13	30%(+/-)	Yes
% linked via NPI	100.0	100.0	0.01	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	-100.00	30%(+/-)	Yes
% with name prefix	27.7	29.1	5.26	30%(+/-)	Yes
% with first name	76.0	78.0	2.62	30%(+/-)	Yes
% with middle name	58.7	60.1	2.35	30%(+/-)	Yes
% with last name	76.0	78.0	2.62	30%(+/-)	Yes
% with name suffix	1.4	1.4	0.66	30%(+/-)	Yes
% male	46.1	46.7	1.42	30%(+/-)	Yes
% female	29.9	31.2	4.47	30%(+/-)	Yes
% with credential	70.9	73.0	3.02	30%(+/-)	Yes
% with business name	24.0	21.7	-9.73	30%(+/-)	Yes
% with address line 1	100.0	99.7	-0.35	30%(+/-)	Yes
% with city	100.0	99.7	-0.35	30%(+/-)	Yes
% with state	100.0	99.7	-0.35	30%(+/-)	Yes
% state = claim file state code	62.7	62.0	-1.15	30%(+/-)	Yes
% with zip code	100.0	99.7	-0.35	30%(+/-)	Yes

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

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2009-2010 MAX All Provider Characteristics Validation Table

State: MT

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	98.6	97.7	-0.90	30%(+/-)	Yes
% with provider entity type = individual	76.0	78.0	2.62	30%(+/-)	Yes
% with provider entity type = organization	24.0	21.7	-9.73	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	17,152	17,501	2.03	30%(+/-)	Yes
% individual or group of individuals	77.2	79.2	2.61	30%(+/-)	Yes
% allopathic and osteopathic physicians	45.2	46.0	1.79	30%(+/-)	Yes
% behavioral health and social service providers	6.8	7.0	3.33	30%(+/-)	Yes
% chiropractic providers	1.0	1.0	5.55	30%(+/-)	Yes
% dental providers	4.3	4.4	2.99	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.1	-22.70	30%(+/-)	Yes
% emergency medical service providers	0.1	0.1	-1.72	30%(+/-)	Yes
% eye and vision service providers	1.8	2.0	6.08	30%(+/-)	Yes
% nursing service providers	0.1	0.1	8.57	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	-8.33	30%(+/-)	Yes
% other service providers	0.9	1.4	54.20	30%(+/-)	Yes
% pharmacy service providers	0.1	0.1	4.04	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	10.5	10.9	4.18	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.4	0.5	13.92	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.2	4.1	-0.34	30%(+/-)	Yes
% speech, language, and hearing service providers	1.2	1.3	6.80	30%(+/-)	Yes
% student health care	0.1	0.1	80.00	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-2.13	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.4	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	22.8	20.8	-8.82	30%(+/-)	Yes
% agencies	3.9	3.7	-5.36	30%(+/-)	Yes
% ambulatory health care facilities	1.9	1.5	-19.26	30%(+/-)	Yes
% hospital units	0.4	0.3	-10.74	30%(+/-)	Yes
% hospitals	4.3	3.1	-27.83	30%(+/-)	Yes
% laboratories	0.7	0.8	27.22	30%(+/-)	Yes
% managed care organizations	0.0	0.0	0.00	30%(+/-)	Yes
% nursing and custodial care facilities	1.8	2.0	10.92	30%(+/-)	Yes
% residential treatment facilities	0.3	0.2	-12.14	30%(+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30%(+/-)	N/A
% suppliers	8.3	7.8	-5.18	30%(+/-)	Yes
% transportation services	1.4	1.3	-8.90	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	13,200	13,970	5.83	30%(+/-)	Yes
% a sole proprietorship	18.7	19.5	4.10	30%(+/-)	Yes
% not a sole proprietorship	72.6	75.2	3.62	30%(+/-)	Yes
% not answered	8.8	5.4	-38.79	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	4,170	3,882	-6.91	30%(+/-)	Yes
% organization is a subpart	12.0	12.9	7.21	30%(+/-)	Yes
% organization is not a subpart	64.8	69.8	7.66	30%(+/-)	Yes
% not answered	23.1	17.3	-25.23	N/A	N/A

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

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