

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

**State-Specific Validation Tables,
2010**

Iowa

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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	749	735	-1.87	30% (+/-)	Yes
% billing provider on IP claim	50.1	50.3	0.55	N/A	N/A
% NPI billing provider on IP claim	49.9	49.7	-0.55	N/A	N/A
% also a provider on LT claim	0.5	0.5	1.87	N/A	N/A
% also a provider on OT claim	63.0	63.8	1.26	N/A	N/A
% also a provider on RX claim	7.3	6.4	-12.91	N/A	N/A
% provider IDs with NPI	99.2	99.2	-0.02	30% (+/-)	Yes
% provider IDs linked to NPPES	98.7	98.9	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 IP claims	223.6	227.4	1.72	30% (+/-)	Yes
average number of beneficiaries with IP claims	184.5	187.7	1.71	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	743	729	-1.88	30% (+/-)	Yes
% NPI source = MSIS	99.1	99.0	-0.02	30% (+/-)	Yes
% NPI source = NPPES	0.9	1.0	1.91	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	739	727	-1.62	30% (+/-)	Yes
% linked via NPI	99.1	99.0	-0.02	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.9	1.0	1.69	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	99.5	-0.55	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.55	30% (+/-)	Yes
% with city	100.0	99.5	-0.55	30% (+/-)	Yes
% with state	100.0	99.5	-0.55	30% (+/-)	Yes
% state = IP state code	35.7	35.8	0.11	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.55	30% (+/-)	Yes
% with primary taxonomy	99.7	99.2	-0.56	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.5	-0.55	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	737	721	-2.17	30% (+/-)	Yes
% individual or group of individuals	13.4	0.3	-97.94	30% (+/-)	No
% allopathic and osteopathic physicians	9.9	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: IA

Produced: 02/26/2013

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	0.8	0.0	-100.00	30% (+/-)	Yes
% 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	0.3	0.3	2.21	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.8	0.0	-100.00	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.3	0.0	-100.00	30% (+/-)	Yes
% 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	0.5	0.0	-100.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	86.6	99.7	15.20	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	1.4	0.3	-79.59	30% (+/-)	Yes
% hospital units	3.5	3.7	6.15	30% (+/-)	Yes
% hospitals	78.6	95.7	21.81	30% (+/-)	Yes
% laboratories	0.3	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.3	0.0	-100.00	30% (+/-)	Yes
% 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	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	2.3	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	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	739	723	-2.17	30% (+/-)	Yes
% organization is a subpart	7.0	8.3	17.93	30% (+/-)	Yes
% organization is not a subpart	82.4	84.4	2.38	30% (+/-)	Yes
% not answered	10.6	7.3	-30.54	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	1,334	1,390	4.20	30% (+/-)	Yes
% billing provider on LT claim	50.0	51.2	2.45	N/A	N/A
% NPI billing provider on LT claim	50.0	48.8	-2.45	N/A	N/A
% also a provider on IP claim	0.3	0.3	-4.00	N/A	N/A
% also a provider on OT claim	44.0	41.2	-6.32	N/A	N/A
% also a provider on RX claim	0.2	0.1	-52.00	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	274.5	260.8	-4.98	30% (+/-)	Yes
average number of beneficiaries with LT claims	33.1	31.6	-4.60	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,334	1,390	4.20	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	1,334	1,390	4.20	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	99.9	-0.14	30% (+/-)	Yes
% with address line 1	100.0	99.9	-0.14	30% (+/-)	Yes
% with city	100.0	99.9	-0.14	30% (+/-)	Yes
% with state	100.0	99.9	-0.14	30% (+/-)	Yes
% state = LT state code	95.7	95.0	-0.64	30% (+/-)	Yes
% with zip code	100.0	99.9	-0.14	30% (+/-)	Yes
% with primary taxonomy	96.5	98.1	1.71	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.9	-0.14	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	1,287	1,364	5.98	30% (+/-)	Yes
% individual or group of individuals	2.3	0.4	-83.71	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.2	0.0	-100.00	30% (+/-)	Yes
% behavioral health and social service providers	0.1	0.1	88.46	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 LT Billing Provider Characteristics Validation Table

State: IA

Produced: 02/26/2013

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	0.2	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	0.2	0.0	-100.00	30% (+/-)	Yes
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.2	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.2	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	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.3	0.0	-100.00	30% (+/-)	Yes
% 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	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	97.7	99.6	1.93	30% (+/-)	Yes
% agencies	1.5	0.4	-70.19	30% (+/-)	Yes
% ambulatory health care facilities	0.5	0.2	-52.79	30% (+/-)	Yes
% hospital units	4.7	6.7	44.68	30% (+/-)	Yes
% hospitals	4.2	5.1	20.57	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	74.2	82.4	11.05	30% (+/-)	Yes
% residential treatment facilities	4.7	4.8	0.53	30% (+/-)	Yes
% respite care facility	0.3	0.0	-100.00	30% (+/-)	Yes
% suppliers	7.5	0.0	-100.00	30% (+/-)	Yes
% transportation services	0.2	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	1,334	1,388	4.05	30% (+/-)	Yes
% organization is a subpart	11.7	12.2	4.12	30% (+/-)	Yes
% organization is not a subpart	49.0	62.3	27.12	30% (+/-)	Yes
% not answered	39.3	25.5	-35.07	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	62,340	64,366	3.25	30% (+/-)	Yes
% billing provider on OT claim	21.9	23.6	8.10	N/A	N/A
% servicing provider on OT claim	58.3	57.8	-0.81	N/A	N/A
% NPI servicing provider on OT claim	43.8	43.7	-0.20	N/A	N/A
% also a provider on IP claim	0.4	0.3	-31.03	N/A	N/A
% also a provider on LT claim	0.3	0.2	-16.73	N/A	N/A
% also a provider on RX claim	18.2	18.1	-0.36	N/A	N/A
% provider IDs with NPI	97.2	97.4	0.21	30% (+/-)	Yes
% provider IDs linked to NPPES	79.9	81.1	1.43	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	614.8	612.8	-0.32	30% (+/-)	Yes
average number of beneficiaries with OT claims	104.9	104.2	-0.64	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	60,606	62,704	3.46	30% (+/-)	Yes
% NPI source = MSIS	99.0	99.1	0.07	30% (+/-)	Yes
% NPI source = NPPES	1.0	0.9	-7.19	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	49,840	52,197	4.73	30% (+/-)	Yes
% linked via NPI	98.8	98.9	0.10	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.2	1.1	-8.30	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	28.0	28.9	3.12	30% (+/-)	Yes
% with first name	77.2	78.0	0.97	30% (+/-)	Yes
% with middle name	64.9	65.6	1.05	30% (+/-)	Yes
% with last name	77.2	78.0	0.97	30% (+/-)	Yes
% with name suffix	1.5	1.4	-6.22	30% (+/-)	Yes
% male	53.2	52.7	-0.94	30% (+/-)	Yes
% female	24.1	25.3	5.18	30% (+/-)	Yes
% with credential	76.2	76.9	0.96	30% (+/-)	Yes
% with business name	22.8	21.6	-5.17	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.43	30% (+/-)	Yes
% with city	100.0	99.6	-0.43	30% (+/-)	Yes
% with state	100.0	99.6	-0.43	30% (+/-)	Yes
% state = OT state code	63.3	61.3	-3.07	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.43	30% (+/-)	Yes
% with primary taxonomy	99.0	98.4	-0.61	30% (+/-)	Yes
% with provider entity type = individual	77.2	78.0	0.97	30% (+/-)	Yes
% with provider entity type = organization	22.8	21.6	-5.17	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	49,445	51,378	3.91	30% (+/-)	Yes
% individual or group of individuals	86.0	86.6	0.77	30% (+/-)	Yes
% allopathic and osteopathic physicians	57.1	58.7	2.71	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 OT Servicing Provider Characteristics Validation Table

State: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	1.2	1.2	-2.69	30% (+/-)	Yes
% chiropractic providers	4.9	5.1	4.21	30% (+/-)	Yes
% dental providers	5.3	5.3	-0.43	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.2	0.1	-34.65	30% (+/-)	Yes
% eye and vision service providers	2.8	2.8	1.16	30% (+/-)	Yes
% nursing service providers	0.2	0.1	-35.33	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-44.44	30% (+/-)	Yes
% other service providers	1.0	1.1	16.99	30% (+/-)	Yes
% pharmacy service providers	0.3	0.1	-50.17	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	7.5	8.2	9.08	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	1.0	6.60	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.9	2.1	9.46	30% (+/-)	Yes
% speech, language, and hearing service providers	0.6	0.5	-10.42	30% (+/-)	Yes
% student health care	0.2	0.2	2.63	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-83.33	30% (+/-)	Yes
% group of individuals with multi- or single specialty	1.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	14.0	13.4	-4.72	30% (+/-)	Yes
% agencies	3.3	3.1	-4.89	30% (+/-)	Yes
% ambulatory health care facilities	1.8	1.8	-4.18	30% (+/-)	Yes
% hospital units	0.0	0.0	-63.64	30% (+/-)	Yes
% hospitals	0.7	0.6	-7.82	30% (+/-)	Yes
% laboratories	0.4	0.4	3.12	30% (+/-)	Yes
% managed care organizations	0.0	0.0	13.64	30% (+/-)	Yes
% nursing and custodial care facilities	0.8	1.0	19.80	30% (+/-)	Yes
% residential treatment facilities	0.3	0.3	-9.52	30% (+/-)	Yes
% respite care facility	0.0	0.0	-29.55	30% (+/-)	Yes
% suppliers	5.1	4.7	-7.85	30% (+/-)	Yes
% transportation services	1.5	1.4	-5.82	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	38,478	40,688	5.74	30% (+/-)	Yes
% a sole proprietorship	10.0	11.1	11.60	30% (+/-)	Yes
% not a sole proprietorship	71.9	77.7	7.99	30% (+/-)	Yes
% not answered	18.1	11.2	-38.11	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	11,362	11,284	-0.69	30% (+/-)	Yes
% organization is a subpart	10.1	10.3	2.71	30% (+/-)	Yes
% organization is not a subpart	62.5	67.1	7.38	30% (+/-)	Yes
% not answered	27.4	22.5	-17.82	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	15,413	17,641	14.46	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	88.4	86.2	-2.48	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	2.1	1.9	-10.24	N/A	N/A
% also a provider on LT claim	2.9	2.5	-11.62	N/A	N/A
% also a provider on RX claim	5.1	4.3	-14.75	N/A	N/A
% provider IDs with NPI	92.6	91.0	-1.76	30% (+/-)	Yes
% provider IDs linked to NPPES	58.0	61.2	5.54	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,408.8	1,532.3	8.77	30% (+/-)	Yes
average number of beneficiaries with OT claims	181.0	211.9	17.05	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	14,278	16,055	12.45	30% (+/-)	Yes
% NPI source = MSIS	94.5	94.5	0.00	30% (+/-)	Yes
% NPI source = NPPES	5.5	5.5	-0.04	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	8,943	10,803	20.80	30% (+/-)	Yes
% linked via NPI	91.2	91.8	0.67	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	8.8	8.2	-7.25	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	236.36	30% (+/-)	Yes
% with name prefix	19.1	19.2	0.66	30% (+/-)	Yes
% with first name	33.4	38.2	14.53	30% (+/-)	Yes
% with middle name	30.0	33.4	11.17	30% (+/-)	Yes
% with last name	33.4	38.2	14.53	30% (+/-)	Yes
% with name suffix	0.5	0.6	3.10	30% (+/-)	Yes
% male	23.6	25.4	7.85	30% (+/-)	Yes
% female	9.8	12.8	30.61	30% (+/-)	No
% with credential	32.4	37.4	15.28	30% (+/-)	Yes
% with business name	66.6	61.4	-7.83	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 = OT state code	79.1	79.7	0.76	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.37	30% (+/-)	Yes
% with primary taxonomy	99.5	98.1	-1.39	30% (+/-)	Yes
% with provider entity type = individual	33.4	38.2	14.53	30% (+/-)	Yes
% with provider entity type = organization	66.6	61.4	-7.83	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	8,929	10,603	18.75	30% (+/-)	Yes
% individual or group of individuals	57.9	59.7	3.16	30% (+/-)	Yes
% allopathic and osteopathic physicians	20.2	29.3	44.96	30% (+/-)	No

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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	2.1	2.2	3.35	30% (+/-)	Yes
% chiropractic providers	8.9	7.9	-11.11	30% (+/-)	Yes
% dental providers	9.2	7.5	-17.74	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.3	0.2	-42.94	30% (+/-)	Yes
% eye and vision service providers	3.6	3.3	-8.54	30% (+/-)	Yes
% nursing service providers	0.3	0.1	-52.86	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-17.65	30% (+/-)	Yes
% other service providers	0.9	1.4	61.81	30% (+/-)	Yes
% pharmacy service providers	0.3	0.2	-36.31	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	4.5	4.7	4.05	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.3	1.2	-5.73	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.3	1.1	-13.59	30% (+/-)	Yes
% speech, language, and hearing service providers	0.7	0.5	-27.47	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.1	0.0	-83.93	30% (+/-)	Yes
% group of individuals with multi- or single specialty	4.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	42.1	40.3	-4.35	30% (+/-)	Yes
% agencies	9.1	8.9	-2.79	30% (+/-)	Yes
% ambulatory health care facilities	5.1	4.7	-8.97	30% (+/-)	Yes
% hospital units	0.3	0.3	-7.49	30% (+/-)	Yes
% hospitals	3.9	4.3	9.95	30% (+/-)	Yes
% laboratories	1.1	1.1	-6.63	30% (+/-)	Yes
% managed care organizations	0.1	0.1	-3.85	30% (+/-)	Yes
% nursing and custodial care facilities	5.0	6.0	20.35	30% (+/-)	Yes
% residential treatment facilities	0.8	0.9	19.47	30% (+/-)	Yes
% respite care facility	0.1	0.1	-15.84	30% (+/-)	Yes
% suppliers	12.5	10.5	-16.02	30% (+/-)	Yes
% transportation services	4.0	3.5	-13.45	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	2,983	4,127	38.35	30% (+/-)	No
% a sole proprietorship	33.3	26.1	-21.69	30% (+/-)	Yes
% not a sole proprietorship	51.3	64.2	25.10	30% (+/-)	Yes
% not answered	15.4	9.7	-36.69	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	5,960	6,636	11.34	30% (+/-)	Yes
% organization is a subpart	10.4	10.3	-0.46	30% (+/-)	Yes
% organization is not a subpart	62.6	67.9	8.34	30% (+/-)	Yes
% not answered	27.0	21.8	-19.18	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	12,599	13,097	3.95	30% (+/-)	Yes
% billing provider on RX claim	7.9	7.7	-3.04	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	92.1	92.3	0.26	N/A	N/A
% also a provider on IP claim	0.4	0.4	-17.85	N/A	N/A
% also a provider on LT claim	0.0	0.0	-50.00	N/A	N/A
% also a provider on OT claim	90.0	89.1	-0.96	N/A	N/A
% provider IDs with NPI	97.4	97.2	-0.14	30% (+/-)	Yes
% provider IDs linked to NPPES	96.9	97.2	0.30	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	652.4	659.4	1.07	30% (+/-)	Yes
average number of beneficiaries with RX claims	88.6	88.0	-0.69	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	12,269	12,736	3.81	30% (+/-)	Yes
% NPI source = MSIS	94.7	95.1	0.42	30% (+/-)	Yes
% NPI source = NPPES	5.3	4.9	-7.53	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	12,214	12,735	4.27	30% (+/-)	Yes
% linked via NPI	94.7	95.1	0.44	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	5.3	4.9	-7.95	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	33.1	34.5	4.41	30% (+/-)	Yes
% with first name	90.3	90.7	0.53	30% (+/-)	Yes
% with middle name	75.5	76.1	0.72	30% (+/-)	Yes
% with last name	90.3	90.7	0.53	30% (+/-)	Yes
% with name suffix	1.7	1.6	-2.25	30% (+/-)	Yes
% male	60.4	59.8	-1.05	30% (+/-)	Yes
% female	29.8	30.9	3.73	30% (+/-)	Yes
% with credential	89.2	89.7	0.58	30% (+/-)	Yes
% with business name	9.7	8.7	-11.03	30% (+/-)	Yes
% with address line 1	100.0	99.4	-0.60	30% (+/-)	Yes
% with city	100.0	99.4	-0.60	30% (+/-)	Yes
% with state	100.0	99.4	-0.60	30% (+/-)	Yes
% state = RX state code	65.6	63.4	-3.26	30% (+/-)	Yes
% with zip code	100.0	99.4	-0.60	30% (+/-)	Yes
% with primary taxonomy	98.8	98.4	-0.41	30% (+/-)	Yes
% with provider entity type = individual	90.3	90.7	0.53	30% (+/-)	Yes
% with provider entity type = organization	9.7	8.7	-11.03	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	12,098	12,535	3.61	30% (+/-)	Yes
% individual or group of individuals	92.7	93.2	0.60	30% (+/-)	Yes
% allopathic and osteopathic physicians	67.9	68.6	1.13	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 RX Billing Provider Characteristics Validation Table

State: IA

Produced: 02/26/2013

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	-9.09	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	-100.00	30% (+/-)	Yes
% dental providers	9.1	9.0	-0.76	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.1	0.1	-12.09	30% (+/-)	Yes
% eye and vision service providers	3.1	3.3	5.85	30% (+/-)	Yes
% nursing service providers	0.1	0.1	-22.89	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.8	0.9	11.74	30% (+/-)	Yes
% pharmacy service providers	0.4	0.3	-32.22	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	8.6	9.3	8.03	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.4	1.4	-3.50	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.0	-52.00	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% student health care	0.2	0.2	-21.08	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	0.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	7.3	6.8	-7.61	30% (+/-)	Yes
% agencies	0.1	0.1	-44.83	30% (+/-)	Yes
% ambulatory health care facilities	0.7	0.8	2.99	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.4	0.4	-16.51	30% (+/-)	Yes
% laboratories	0.0	0.0	-5.88	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-52.94	30% (+/-)	Yes
% 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	6.0	5.6	-7.21	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	11,025	11,556	4.82	30% (+/-)	Yes
% a sole proprietorship	9.1	10.2	11.62	30% (+/-)	Yes
% not a sole proprietorship	74.4	80.3	7.90	30% (+/-)	Yes
% not answered	16.5	9.5	-42.11	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,189	1,103	-7.23	30% (+/-)	Yes
% organization is a subpart	18.4	18.7	1.40	30% (+/-)	Yes
% organization is not a subpart	67.7	71.0	4.85	30% (+/-)	Yes
% not answered	13.9	10.3	-25.52	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	11,843	12,282	3.71	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	0.0	0.0	Div by 0	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	0.0	0.0	Div by 0	N/A	N/A
% provider IDs with NPI	0.0	0.0	41.18	30% (+/-)	Yes
% provider IDs linked to NPPES	0.0	0.0	41.18	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	377.5	383.6	1.60	30% (+/-)	Yes
average number of beneficiaries with RX claims	64.7	64.7	-0.02	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2	3	50.00	30% (+/-)	Yes
% NPI source = MSIS	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = NPPES	100.0	100.0	0.00	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	3	50.00	30% (+/-)	Yes
% linked via NPI	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	100.0	100.0	0.00	30% (+/-)	Yes
% with name prefix	50.0	33.3	-33.33	30% (+/-)	No
% with first name	100.0	100.0	0.00	30% (+/-)	Yes
% with middle name	50.0	66.7	33.33	30% (+/-)	No
% with last name	100.0	100.0	0.00	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	33.3	Div by 0	30% (+/-)	N/A
% female	100.0	66.7	-33.33	30% (+/-)	No
% with credential	50.0	66.7	33.33	30% (+/-)	No
% with business name	0.0	0.0	Div by 0	30% (+/-)	N/A
% 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 = RX state code	0.0	0.0	Div by 0	30% (+/-)	N/A
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	100.0	100.0	0.00	30% (+/-)	Yes
% with provider entity type = individual	100.0	100.0	0.00	30% (+/-)	Yes
% with provider entity type = organization	0.0	0.0	Div by 0	30% (+/-)	N/A
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	3	50.00	30% (+/-)	Yes
% individual or group of individuals	100.0	100.0	0.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	33.3	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 Prescribing Provider Characteristics Validation Table

State: IA

Produced: 02/26/2013

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	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	50.0	33.3	-33.33	30% (+/-)	No
% 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	50.0	33.3	-33.33	30% (+/-)	No
% 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	0.0	0.0	Div by 0	30% (+/-)	N/A
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.0	0.0	Div by 0	30% (+/-)	N/A
% 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	0.0	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	2	3	50.00	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	0	0	Div by 0	30% (+/-)	N/A
% organization is a subpart	0.0	0.0	Div by 0	30% (+/-)	N/A
% organization is not a subpart	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	78,250	81,584	4.26	30%(+/-)	Yes
% billing provider on IP claim	0.5	0.5	-5.22	N/A	N/A
% NPI billing provider on IP claim	0.5	0.4	-6.49	N/A	N/A
% billing provider on LT claim	0.9	0.9	2.46	N/A	N/A
% NPI billing provider on LT claim	0.9	0.8	-2.46	N/A	N/A
% billing provider on OT claim	19.7	21.6	9.78	N/A	N/A
% servicing provider on OT claim	46.4	45.6	-1.77	N/A	N/A
% NPI servicing provider on OT claim	34.9	34.5	-1.17	N/A	N/A
% billing provider on RX claim	1.3	1.2	-3.29	N/A	N/A
% prescribing provider on RX claim	15.1	15.1	-0.54	N/A	N/A
% NPI billing provider on RX claim	14.8	14.8	-0.03	N/A	N/A
% billing provider	20.3	22.3	9.68	N/A	N/A
% NPI billing provider	16.1	16.1	-0.28	N/A	N/A
% servicing provider	46.4	45.6	-1.77	N/A	N/A
% NPI servicing provider	34.9	34.5	-1.17	N/A	N/A
% prescribing provider	15.1	15.1	-0.54	N/A	N/A
% provider IDs with NPI	81.3	81.1	-0.34	30%(+/-)	Yes
% provider IDs linked to NPPES	67.5	68.2	0.93	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	744.7	782.2	5.03	30%(+/-)	Yes
average number of beneficiaries with claims	111.2	117.0	5.28	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	63,641	66,128	3.91	30%(+/-)	Yes
% NPI source = MSIS	98.6	98.5	-0.11	30%(+/-)	Yes
% NPI source = NPPES	1.4	1.5	7.52	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	52,854	55,619	5.23	30%(+/-)	Yes
% linked via NPI	98.3	98.2	-0.10	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	1.7	1.8	5.79	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	116.67	30%(+/-)	Yes
% with name prefix	26.9	27.8	3.06	30%(+/-)	Yes
% with first name	74.7	75.2	0.70	30%(+/-)	Yes
% with middle name	62.7	63.2	0.83	30%(+/-)	Yes
% with last name	74.7	75.2	0.70	30%(+/-)	Yes
% with name suffix	1.4	1.3	-5.67	30%(+/-)	Yes
% male	51.2	50.6	-1.12	30%(+/-)	Yes
% female	23.5	24.6	4.67	30%(+/-)	Yes
% with credential	73.7	74.2	0.71	30%(+/-)	Yes
% with business name	25.3	24.4	-3.83	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.45	30%(+/-)	Yes
% with city	100.0	99.6	-0.45	30%(+/-)	Yes
% with state	100.0	99.6	-0.45	30%(+/-)	Yes
% state = claim file state code	62.9	61.2	-2.86	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.45	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: IA

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.0	98.4	-0.55	30%(+/-)	Yes
% with provider entity type = individual	74.7	75.2	0.70	30%(+/-)	Yes
% with provider entity type = organization	25.3	24.4	-3.83	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	52,396	54,738	4.47	30%(+/-)	Yes
% individual or group of individuals	83.4	83.6	0.24	30%(+/-)	Yes
% allopathic and osteopathic physicians	55.5	56.7	2.06	30%(+/-)	Yes
% behavioral health and social service providers	1.2	1.1	-1.29	30%(+/-)	Yes
% chiropractic providers	4.6	4.8	3.59	30%(+/-)	Yes
% dental providers	5.2	5.2	-0.71	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% emergency medical service providers	0.2	0.1	-35.03	30%(+/-)	Yes
% eye and vision service providers	2.6	2.6	0.46	30%(+/-)	Yes
% nursing service providers	0.1	0.1	-30.07	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	-47.06	30%(+/-)	Yes
% other service providers	0.9	1.1	17.65	30%(+/-)	Yes
% pharmacy service providers	0.3	0.2	-47.00	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	7.4	8.1	8.57	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.9	1.0	3.93	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.8	2.0	8.67	30%(+/-)	Yes
% speech, language, and hearing service providers	0.6	0.5	-10.83	30%(+/-)	Yes
% student health care	0.2	0.2	1.31	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-82.61	30%(+/-)	Yes
% group of individuals with multi- or single specialty	1.7	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	16.6	16.4	-1.21	30%(+/-)	Yes
% agencies	3.3	3.1	-4.84	30%(+/-)	Yes
% ambulatory health care facilities	1.8	1.9	2.64	30%(+/-)	Yes
% hospital units	0.2	0.2	17.80	30%(+/-)	Yes
% hospitals	1.6	1.7	9.87	30%(+/-)	Yes
% laboratories	0.4	0.4	2.80	30%(+/-)	Yes
% managed care organizations	0.0	0.0	13.04	30%(+/-)	Yes
% nursing and custodial care facilities	2.4	2.7	12.92	30%(+/-)	Yes
% residential treatment facilities	0.4	0.4	-5.83	30%(+/-)	Yes
% respite care facility	0.0	0.0	-36.96	30%(+/-)	Yes
% suppliers	5.0	4.5	-9.42	30%(+/-)	Yes
% transportation services	1.4	1.3	-6.57	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	39,463	41,818	5.97	30%(+/-)	Yes
% a sole proprietorship	9.9	11.0	11.47	30%(+/-)	Yes
% not a sole proprietorship	72.0	77.8	8.05	30%(+/-)	Yes
% not answered	18.1	11.2	-38.33	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	13,391	13,552	1.20	30%(+/-)	Yes
% organization is a subpart	10.3	10.8	4.81	30%(+/-)	Yes
% organization is not a subpart	61.7	66.9	8.48	30%(+/-)	Yes
% not answered	28.0	22.3	-20.46	N/A	N/A

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

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