

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

**State-Specific Validation Tables,
2010**

Arizona

May 31, 2013

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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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	945	905	-4.23	30% (+/-)	Yes
% billing provider on IP claim	49.9	49.9	0.00	N/A	N/A
% NPI billing provider on IP claim	50.1	50.1	0.00	N/A	N/A
% also a provider on LT claim	4.4	0.7	-85.08	N/A	N/A
% also a provider on OT claim	79.7	80.8	1.37	N/A	N/A
% also a provider on RX claim	6.2	6.4	2.66	N/A	N/A
% provider IDs with NPI	99.9	99.6	-0.34	30% (+/-)	Yes
% provider IDs linked to NPPES	99.9	99.6	-0.34	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	558.4	505.5	-9.47	30% (+/-)	Yes
average number of beneficiaries with IP claims	450.3	414.1	-8.04	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	944	901	-4.56	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	944	901	-4.56	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	0.1	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.1	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.1	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	0.1	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.1	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.9	-0.11	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	35.0	31.0	-11.42	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.6	99.8	0.20	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.1	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.9	-0.11	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	940	899	-4.36	30% (+/-)	Yes
% individual or group of individuals	0.4	0.8	82.86	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.4	0.4	4.46	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: AZ

Produced: 02/21/2013

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	0.2	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	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	0.1	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.6	99.2	-0.35	30% (+/-)	Yes
% agencies	3.4	2.2	-34.64	30% (+/-)	Yes
% ambulatory health care facilities	2.1	2.0	-5.92	30% (+/-)	Yes
% hospital units	2.6	2.4	-4.15	30% (+/-)	Yes
% hospitals	82.2	88.3	7.40	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	5.3	0.9	-83.27	30% (+/-)	Yes
% residential treatment facilities	3.6	2.9	-20.04	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.3	0.4	39.50	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	1	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	100.0	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	944	900	-4.66	30% (+/-)	Yes
% organization is a subpart	11.9	12.4	4.89	30% (+/-)	Yes
% organization is not a subpart	70.4	75.4	7.10	30% (+/-)	Yes
% not answered	17.7	12.1	-31.54	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	288	286	-0.69	30% (+/-)	Yes
% billing provider on LT claim	50.0	50.0	0.00	N/A	N/A
% NPI billing provider on LT claim	50.0	50.0	0.00	N/A	N/A
% also a provider on IP claim	14.6	2.1	-85.61	N/A	N/A
% also a provider on OT claim	50.0	51.4	2.80	N/A	N/A
% also a provider on RX claim	1.0	1.0	0.67	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	704.1	1,001.4	42.22	30% (+/-)	No
average number of beneficiaries with LT claims	127.2	137.5	8.13	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	288	286	-0.69	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	288	286	-0.69	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	95.1	93.0	-2.24	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.3	97.2	-2.12	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	286	278	-2.80	30% (+/-)	Yes
% individual or group of individuals	0.0	0.0	Div by 0	30% (+/-)	N/A
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic 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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	100.0	100.0	0.00	30% (+/-)	Yes
% 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	0.7	0.7	2.86	30% (+/-)	Yes
% hospitals	7.7	8.6	12.23	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	88.8	88.5	-0.36	30% (+/-)	Yes
% residential treatment facilities	2.8	2.2	-22.85	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	288	286	-0.69	30% (+/-)	Yes
% organization is a subpart	13.2	13.3	0.70	30% (+/-)	Yes
% organization is not a subpart	60.4	69.9	15.75	30% (+/-)	Yes
% not answered	26.4	16.8	-36.40	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	51,264	52,151	1.73	30% (+/-)	Yes
% billing provider on OT claim	52.2	51.5	-1.36	N/A	N/A
% servicing provider on OT claim	55.1	54.4	-1.31	N/A	N/A
% NPI servicing provider on OT claim	44.9	45.6	1.61	N/A	N/A
% also a provider on IP claim	1.5	1.3	-12.41	N/A	N/A
% also a provider on LT claim	0.3	0.3	-1.78	N/A	N/A
% also a provider on RX claim	28.5	28.6	0.26	N/A	N/A
% provider IDs with NPI	91.2	91.6	0.48	30% (+/-)	Yes
% provider IDs linked to NPPES	90.9	91.6	0.76	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	1,565.1	1,244.6	-20.48	30% (+/-)	Yes
average number of beneficiaries with OT claims	270.5	230.4	-14.81	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	46,755	47,790	2.21	30% (+/-)	Yes
% NPI source = MSIS	98.7	98.8	0.14	30% (+/-)	Yes
% NPI source = NPPES	1.3	1.2	-10.40	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	46,619	47,788	2.51	30% (+/-)	Yes
% linked via NPI	98.7	98.8	0.14	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.2	1.1	-10.84	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.1	-8.33	30% (+/-)	Yes
% with name prefix	33.9	35.2	3.77	30% (+/-)	Yes
% with first name	82.2	83.7	1.84	30% (+/-)	Yes
% with middle name	60.6	62.2	2.54	30% (+/-)	Yes
% with last name	82.2	83.7	1.84	30% (+/-)	Yes
% with name suffix	1.5	1.5	2.10	30% (+/-)	Yes
% male	50.6	51.0	0.65	30% (+/-)	Yes
% female	31.5	32.7	3.75	30% (+/-)	Yes
% with credential	78.5	80.0	2.02	30% (+/-)	Yes
% with business name	17.8	15.9	-11.01	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 = OT state code	80.2	79.3	-1.10	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.45	30% (+/-)	Yes
% with primary taxonomy	98.7	98.3	-0.40	30% (+/-)	Yes
% with provider entity type = individual	82.2	83.7	1.84	30% (+/-)	Yes
% with provider entity type = organization	17.8	15.9	-11.01	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	46,042	46,967	2.01	30% (+/-)	Yes
% individual or group of individuals	85.7	86.8	1.32	30% (+/-)	Yes
% allopathic and osteopathic physicians	57.7	58.5	1.45	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	2.5	2.2	-11.36	30% (+/-)	Yes
% chiropractic providers	0.2	0.2	17.82	30% (+/-)	Yes
% dental providers	0.2	0.2	-10.00	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	14.94	30% (+/-)	Yes
% emergency medical service providers	0.2	0.2	-6.50	30% (+/-)	Yes
% eye and vision service providers	1.5	1.3	-16.72	30% (+/-)	Yes
% nursing service providers	0.5	0.5	-4.17	30% (+/-)	Yes
% nursing service-related providers	0.3	0.3	-8.33	30% (+/-)	Yes
% other service providers	3.7	3.3	-10.95	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	9.2	10.3	10.88	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.1	1.1	-2.34	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	5.4	5.3	-0.22	30% (+/-)	Yes
% speech, language, and hearing service providers	2.8	3.0	9.22	30% (+/-)	Yes
% student health care	0.1	0.2	57.80	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	-14.29	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	14.3	13.2	-7.91	30% (+/-)	Yes
% agencies	2.2	2.1	-3.24	30% (+/-)	Yes
% ambulatory health care facilities	2.6	2.4	-8.39	30% (+/-)	Yes
% hospital units	0.0	0.0	4.65	30% (+/-)	Yes
% hospitals	3.9	3.1	-19.39	30% (+/-)	Yes
% laboratories	0.5	0.5	-0.37	30% (+/-)	Yes
% managed care organizations	0.1	0.1	-21.05	30% (+/-)	Yes
% nursing and custodial care facilities	0.8	0.9	2.40	30% (+/-)	Yes
% residential treatment facilities	1.0	0.9	-5.78	30% (+/-)	Yes
% respite care facility	0.8	0.7	-16.06	30% (+/-)	Yes
% suppliers	1.5	1.5	-2.58	30% (+/-)	Yes
% transportation services	0.9	1.0	14.64	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	38,309	39,993	4.40	30% (+/-)	Yes
% a sole proprietorship	18.8	19.7	4.77	30% (+/-)	Yes
% not a sole proprietorship	71.0	73.8	3.87	30% (+/-)	Yes
% not answered	10.2	6.5	-35.85	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	8,310	7,580	-8.78	30% (+/-)	Yes
% organization is a subpart	9.8	11.0	12.60	30% (+/-)	Yes
% organization is not a subpart	68.0	71.5	5.13	30% (+/-)	Yes
% not answered	22.2	17.5	-21.27	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	27,306	28,177	3.19	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	98.0	95.3	-2.76	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	1.4	1.3	-5.94	N/A	N/A
% also a provider on LT claim	0.3	0.3	0.72	N/A	N/A
% also a provider on RX claim	48.3	47.7	-1.20	N/A	N/A
% provider IDs with NPI	85.5	84.5	-1.13	30% (+/-)	Yes
% provider IDs linked to NPPES	85.2	84.5	-0.85	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	3,102.1	3,234.1	4.25	30% (+/-)	Yes
average number of beneficiaries with OT claims	375.8	340.0	-9.52	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	23,339	23,811	2.02	30% (+/-)	Yes
% NPI source = MSIS	99.1	98.7	-0.38	30% (+/-)	Yes
% NPI source = NPPES	0.9	1.3	42.95	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	23,271	23,810	2.32	30% (+/-)	Yes
% linked via NPI	99.1	98.7	-0.38	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.8	1.1	45.49	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.2	24.00	30% (+/-)	Yes
% with name prefix	33.6	34.9	4.00	30% (+/-)	Yes
% with first name	81.5	83.2	2.09	30% (+/-)	Yes
% with middle name	60.0	61.7	2.84	30% (+/-)	Yes
% with last name	81.5	83.2	2.09	30% (+/-)	Yes
% with name suffix	1.5	1.5	2.33	30% (+/-)	Yes
% male	50.3	50.7	0.84	30% (+/-)	Yes
% female	31.2	32.5	4.10	30% (+/-)	Yes
% with credential	77.8	79.6	2.35	30% (+/-)	Yes
% with business name	18.5	16.4	-11.63	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 = OT state code	80.4	79.8	-0.80	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.45	30% (+/-)	Yes
% with primary taxonomy	98.7	98.3	-0.40	30% (+/-)	Yes
% with provider entity type = individual	81.5	83.2	2.09	30% (+/-)	Yes
% with provider entity type = organization	18.5	16.4	-11.63	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	22,986	23,404	1.82	30% (+/-)	Yes
% individual or group of individuals	85.2	86.7	1.75	30% (+/-)	Yes
% allopathic and osteopathic physicians	57.4	58.6	2.04	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	2.5	2.2	-13.50	30% (+/-)	Yes
% chiropractic providers	0.2	0.2	14.35	30% (+/-)	Yes
% dental providers	0.2	0.2	-13.51	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	15.13	30% (+/-)	Yes
% emergency medical service providers	0.2	0.2	-6.00	30% (+/-)	Yes
% eye and vision service providers	1.5	1.3	-17.49	30% (+/-)	Yes
% nursing service providers	0.5	0.5	-3.76	30% (+/-)	Yes
% nursing service-related providers	0.3	0.3	-14.67	30% (+/-)	Yes
% other service providers	3.7	3.3	-10.89	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	9.1	10.2	11.66	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.1	1.1	-1.37	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	5.4	5.4	0.52	30% (+/-)	Yes
% speech, language, and hearing service providers	2.8	3.0	9.55	30% (+/-)	Yes
% student health care	0.1	0.2	56.88	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	-15.57	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	14.8	13.3	-10.09	30% (+/-)	Yes
% agencies	2.2	2.1	-4.71	30% (+/-)	Yes
% ambulatory health care facilities	2.6	2.4	-7.63	30% (+/-)	Yes
% hospital units	0.0	0.0	-2.27	30% (+/-)	Yes
% hospitals	3.9	2.8	-28.02	30% (+/-)	Yes
% laboratories	0.5	0.5	-0.18	30% (+/-)	Yes
% managed care organizations	0.1	0.1	-17.95	30% (+/-)	Yes
% nursing and custodial care facilities	0.9	0.9	4.33	30% (+/-)	Yes
% residential treatment facilities	1.0	0.9	-6.19	30% (+/-)	Yes
% respite care facility	0.9	0.7	-18.12	30% (+/-)	Yes
% suppliers	1.7	1.7	-2.30	30% (+/-)	Yes
% transportation services	0.9	1.1	14.43	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	18,961	19,806	4.46	30% (+/-)	Yes
% a sole proprietorship	19.0	19.8	4.42	30% (+/-)	Yes
% not a sole proprietorship	70.8	73.6	3.98	30% (+/-)	Yes
% not answered	10.2	6.5	-35.86	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	4,310	3,897	-9.58	30% (+/-)	Yes
% organization is a subpart	9.8	11.1	13.48	30% (+/-)	Yes
% organization is not a subpart	68.3	71.7	4.97	30% (+/-)	Yes
% not answered	21.9	17.1	-21.57	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	2,393	2,354	-1.63	30% (+/-)	Yes
% billing provider on RX claim	50.0	50.0	-0.04	N/A	N/A
% prescribing provider on RX claim	12.9	4.5	-65.46	N/A	N/A
% NPI billing provider on RX claim	50.0	50.0	0.04	N/A	N/A
% also a provider on IP claim	0.7	0.7	1.64	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	9.2	9.1	-1.11	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.04	30% (+/-)	Yes
% provider IDs linked to NPPES	99.6	100.0	0.38	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	9,639.4	11,293.0	17.15	30% (+/-)	Yes
average number of beneficiaries with RX claims	1,243.2	1,362.8	9.63	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2,392	2,354	-1.59	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	2,384	2,354	-1.26	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	0.8	0.1	-88.74	30% (+/-)	Yes
% with first name	1.8	0.2	-90.35	30% (+/-)	Yes
% with middle name	1.4	0.1	-94.04	30% (+/-)	Yes
% with last name	1.8	0.2	-90.35	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	1.2	0.1	-92.76	30% (+/-)	Yes
% female	0.6	0.1	-85.52	30% (+/-)	Yes
% with credential	1.7	0.2	-89.87	30% (+/-)	Yes
% with business name	98.2	99.3	1.10	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.51	30% (+/-)	Yes
% with city	100.0	99.5	-0.51	30% (+/-)	Yes
% with state	100.0	99.5	-0.51	30% (+/-)	Yes
% state = RX state code	90.8	89.4	-1.53	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.51	30% (+/-)	Yes
% with primary taxonomy	99.7	99.2	-0.60	30% (+/-)	Yes
% with provider entity type = individual	1.8	0.2	-90.35	30% (+/-)	Yes
% with provider entity type = organization	98.2	99.3	1.10	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	2,386	2,334	-2.18	30% (+/-)	Yes
% individual or group of individuals	2.3	0.7	-70.24	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.0	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 RX Billing Provider Characteristics Validation Table

State: AZ

Produced: 02/21/2013

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	0.1	0.0	-100.00	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% pharmacy service providers	0.7	0.7	2.24	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.5	0.0	-100.00	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	97.7	99.3	1.66	30% (+/-)	Yes
% agencies	0.1	0.2	103.57	30% (+/-)	Yes
% ambulatory health care facilities	1.0	0.5	-48.91	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.6	0.6	2.21	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.2	0.2	1.79	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.0	-100.00	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	95.8	97.9	2.18	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	42	4	-90.48	30% (+/-)	No
% a sole proprietorship	47.6	50.0	5.00	30% (+/-)	Yes
% not a sole proprietorship	47.6	50.0	5.00	30% (+/-)	Yes
% not answered	4.8	0.0	-100.00	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	2,342	2,338	-0.17	30% (+/-)	Yes
% organization is a subpart	35.4	37.8	6.95	30% (+/-)	Yes
% organization is not a subpart	61.9	60.7	-2.04	30% (+/-)	Yes
% not answered	2.7	1.5	-43.65	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	39,145	35,862	-8.39	30% (+/-)	Yes
% billing provider on RX claim	0.8	0.3	-62.68	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	-71.43	N/A	N/A
% also a provider on IP claim	0.1	0.1	0.00	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.00	N/A	N/A
% also a provider on OT claim	37.0	41.1	11.20	N/A	N/A
% provider IDs with NPI	40.0	43.9	9.92	30% (+/-)	Yes
% provider IDs linked to NPPES	39.9	43.9	10.21	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	395.3	428.9	8.50	30% (+/-)	Yes
average number of beneficiaries with RX claims	74.6	79.1	5.99	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	15,650	15,760	0.70	30% (+/-)	Yes
% NPI source = MSIS	91.6	92.0	0.43	30% (+/-)	Yes
% NPI source = NPPES	8.4	8.0	-4.71	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	15,609	15,760	0.97	30% (+/-)	Yes
% linked via NPI	91.6	92.0	0.45	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	8.1	7.7	-4.80	30% (+/-)	Yes
% linked via Medicare UPIN	0.3	0.2	-10.18	30% (+/-)	Yes
% with name prefix	40.0	41.1	2.77	30% (+/-)	Yes
% with first name	96.4	97.1	0.74	30% (+/-)	Yes
% with middle name	71.2	72.5	1.83	30% (+/-)	Yes
% with last name	96.4	97.1	0.74	30% (+/-)	Yes
% with name suffix	1.7	1.7	-4.95	30% (+/-)	Yes
% male	61.3	61.4	0.14	30% (+/-)	Yes
% female	35.1	35.7	1.79	30% (+/-)	Yes
% with credential	94.4	95.7	1.42	30% (+/-)	Yes
% with business name	3.6	2.5	-30.73	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.41	30% (+/-)	Yes
% with city	100.0	99.6	-0.41	30% (+/-)	Yes
% with state	100.0	99.6	-0.41	30% (+/-)	Yes
% state = RX state code	89.9	88.1	-2.01	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.41	30% (+/-)	Yes
% with primary taxonomy	98.9	98.5	-0.46	30% (+/-)	Yes
% with provider entity type = individual	96.4	97.1	0.74	30% (+/-)	Yes
% with provider entity type = organization	3.6	2.5	-30.73	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	15,454	15,516	0.40	30% (+/-)	Yes
% individual or group of individuals	97.1	98.5	1.41	30% (+/-)	Yes
% allopathic and osteopathic physicians	70.2	72.3	2.99	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	1.0	0.4	-57.94	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	-21.98	30% (+/-)	Yes
% dental providers	1.3	1.3	-0.39	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-33.33	30% (+/-)	Yes
% emergency medical service providers	0.3	0.3	-9.71	30% (+/-)	Yes
% eye and vision service providers	1.8	1.6	-9.24	30% (+/-)	Yes
% nursing service providers	0.8	0.6	-23.90	30% (+/-)	Yes
% nursing service-related providers	0.1	0.0	-50.00	30% (+/-)	Yes
% other service providers	3.7	3.3	-11.31	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-31.58	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	14.3	16.1	12.53	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.5	1.5	-2.13	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	0.5	-60.54	30% (+/-)	Yes
% speech, language, and hearing service providers	0.7	0.3	-53.47	30% (+/-)	Yes
% student health care	0.1	0.2	34.88	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	-25.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	2.9	1.5	-47.12	30% (+/-)	Yes
% agencies	0.1	0.1	-18.31	30% (+/-)	Yes
% ambulatory health care facilities	0.4	0.3	-24.27	30% (+/-)	Yes
% hospital units	0.0	0.0	333.33	30% (+/-)	Yes
% hospitals	0.4	0.4	-3.49	30% (+/-)	Yes
% laboratories	0.0	0.0	0.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	50.00	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	-50.00	30% (+/-)	Yes
% respite care facility	0.2	0.0	-77.61	30% (+/-)	Yes
% suppliers	1.8	0.7	-62.49	30% (+/-)	Yes
% transportation services	0.0	0.0	-53.85	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	15,040	15,298	1.72	30% (+/-)	Yes
% a sole proprietorship	16.7	17.2	3.41	30% (+/-)	Yes
% not a sole proprietorship	71.9	75.8	5.45	30% (+/-)	Yes
% not answered	11.5	7.0	-39.10	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	569	398	-30.05	30% (+/-)	No
% organization is a subpart	24.4	19.6	-19.78	30% (+/-)	Yes
% organization is not a subpart	62.4	67.3	7.93	30% (+/-)	Yes
% not answered	13.2	13.1	-0.88	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	78,708	76,931	-2.26	30%(+/-)	Yes
% billing provider on IP claim	0.6	0.6	-2.00	N/A	N/A
% NPI billing provider on IP claim	0.6	0.6	-2.00	N/A	N/A
% billing provider on LT claim	0.2	0.2	1.64	N/A	N/A
% NPI billing provider on LT claim	0.2	0.2	1.64	N/A	N/A
% billing provider on OT claim	34.7	36.6	5.57	N/A	N/A
% servicing provider on OT claim	35.9	36.9	2.71	N/A	N/A
% NPI servicing provider on OT claim	29.2	30.9	5.76	N/A	N/A
% billing provider on RX claim	1.5	1.5	0.59	N/A	N/A
% prescribing provider on RX claim	49.7	46.6	-6.27	N/A	N/A
% NPI billing provider on RX claim	1.5	1.5	0.66	N/A	N/A
% billing provider	36.2	38.1	5.32	N/A	N/A
% NPI billing provider	2.3	2.3	1.01	N/A	N/A
% servicing provider	35.9	36.9	2.71	N/A	N/A
% NPI servicing provider	29.2	30.9	5.76	N/A	N/A
% prescribing provider	49.7	46.6	-6.27	N/A	N/A
% provider IDs with NPI	64.1	67.1	4.62	30%(+/-)	Yes
% provider IDs linked to NPPES	63.9	67.1	4.92	30%(+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of claims	1,998.1	2,102.0	5.20	30%(+/-)	Yes
average number of beneficiaries with claims	273.5	264.3	-3.36	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	50,473	51,613	2.26	30%(+/-)	Yes
% NPI source = MSIS	96.4	96.4	0.01	30%(+/-)	Yes
% NPI source = NPPES	3.6	3.6	-0.28	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	50,329	51,611	2.55	30%(+/-)	Yes
% linked via NPI	96.4	96.4	0.02	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	3.5	3.4	-0.75	30%(+/-)	Yes
% linked via Medicare UPIN	0.2	0.2	3.73	30%(+/-)	Yes
% with name prefix	32.3	33.5	3.68	30%(+/-)	Yes
% with first name	78.3	79.6	1.65	30%(+/-)	Yes
% with middle name	57.8	59.1	2.37	30%(+/-)	Yes
% with last name	78.3	79.6	1.65	30%(+/-)	Yes
% with name suffix	1.4	1.4	2.80	30%(+/-)	Yes
% male	47.9	48.1	0.50	30%(+/-)	Yes
% female	30.4	31.5	3.47	30%(+/-)	Yes
% with credential	74.8	76.2	1.92	30%(+/-)	Yes
% with business name	21.7	19.9	-7.98	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 = claim file state code	80.6	79.6	-1.27	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.43	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: AZ

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	98.7	98.3	-0.38	30%(+/-)	Yes
% with provider entity type = individual	78.3	79.6	1.65	30%(+/-)	Yes
% with provider entity type = organization	21.7	19.9	-7.98	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	49,729	50,752	2.06	30%(+/-)	Yes
% individual or group of individuals	81.7	82.8	1.31	30%(+/-)	Yes
% allopathic and osteopathic physicians	54.4	55.3	1.65	30%(+/-)	Yes
% behavioral health and social service providers	2.5	2.1	-13.28	30%(+/-)	Yes
% chiropractic providers	0.2	0.2	17.26	30%(+/-)	Yes
% dental providers	0.5	0.5	-5.03	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	8.61	30%(+/-)	Yes
% emergency medical service providers	0.2	0.2	-6.49	30%(+/-)	Yes
% eye and vision service providers	1.5	1.2	-15.93	30%(+/-)	Yes
% nursing service providers	0.5	0.5	-11.50	30%(+/-)	Yes
% nursing service-related providers	0.3	0.3	-9.29	30%(+/-)	Yes
% other service providers	3.5	3.1	-10.81	30%(+/-)	Yes
% pharmacy service providers	0.0	0.0	0.00	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	9.1	10.1	11.15	30%(+/-)	Yes
% podiatric medicine and surgery service providers	1.0	1.0	-1.65	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	5.0	5.0	-0.72	30%(+/-)	Yes
% speech, language, and hearing service providers	2.6	2.8	6.92	30%(+/-)	Yes
% student health care	0.1	0.2	59.22	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	-14.41	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30%(+/-)	N/A
% nonindividuals	18.3	17.2	-5.87	30%(+/-)	Yes
% agencies	2.0	2.0	-2.89	30%(+/-)	Yes
% ambulatory health care facilities	2.5	2.3	-7.73	30%(+/-)	Yes
% hospital units	0.1	0.1	-11.67	30%(+/-)	Yes
% hospitals	3.9	3.3	-14.71	30%(+/-)	Yes
% laboratories	0.5	0.5	-0.40	30%(+/-)	Yes
% managed care organizations	0.1	0.1	-16.67	30%(+/-)	Yes
% nursing and custodial care facilities	1.0	1.0	1.58	30%(+/-)	Yes
% residential treatment facilities	1.0	0.9	-5.72	30%(+/-)	Yes
% respite care facility	0.8	0.7	-16.20	30%(+/-)	Yes
% suppliers	5.7	5.5	-3.16	30%(+/-)	Yes
% transportation services	0.8	0.9	14.29	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	39,422	41,095	4.24	30%(+/-)	Yes
% a sole proprietorship	18.7	19.6	4.78	30%(+/-)	Yes
% not a sole proprietorship	71.1	73.9	3.85	30%(+/-)	Yes
% not answered	10.2	6.6	-35.59	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	10,907	10,292	-5.64	30%(+/-)	Yes
% organization is a subpart	14.9	16.4	10.08	30%(+/-)	Yes
% organization is not a subpart	66.7	69.5	4.19	30%(+/-)	Yes
% not answered	18.4	14.1	-23.41	N/A	N/A

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

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