

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

**State-Specific Validation Tables,
2010**

Arkansas

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: AR

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	485	441	-9.07	30% (+/-)	Yes
% billing provider on IP claim	55.7	55.1	-1.02	N/A	N/A
% NPI billing provider on IP claim	44.3	44.9	1.28	N/A	N/A
% also a provider on LT claim	0.6	1.1	83.20	N/A	N/A
% also a provider on OT claim	54.2	52.6	-2.99	N/A	N/A
% also a provider on RX claim	0.6	0.5	-26.66	N/A	N/A
% provider IDs with NPI	88.0	89.3	1.48	30% (+/-)	Yes
% provider IDs linked to NPPES	88.0	89.3	1.48	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	530.8	563.8	6.23	30% (+/-)	Yes
average number of beneficiaries with IP claims	433.8	461.7	6.44	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	427	394	-7.73	30% (+/-)	Yes
% NPI source = MSIS	98.4	99.0	0.63	30% (+/-)	Yes
% NPI source = NPPES	1.6	1.0	-38.07	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	427	394	-7.73	30% (+/-)	Yes
% linked via NPI	98.4	99.0	0.63	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.6	1.0	-38.07	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	0.3	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.3	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.3	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.3	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.3	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.7	-0.25	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	45.2	49.0	8.38	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	98.6	99.0	0.40	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.3	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.7	-0.25	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	421	390	-7.36	30% (+/-)	Yes
% individual or group of individuals	1.2	0.3	-78.45	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.0	0.3	-73.05	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

^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: AR

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	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	98.8	99.7	0.94	30% (+/-)	Yes
% agencies	0.5	0.0	-100.00	30% (+/-)	Yes
% 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	97.4	99.7	2.42	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	1.0	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	0	1	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	100.0	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	427	393	-7.96	30% (+/-)	Yes
% organization is a subpart	4.7	3.6	-23.95	30% (+/-)	Yes
% organization is not a subpart	81.0	84.2	3.94	30% (+/-)	Yes
% not answered	14.3	12.2	-14.50	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: AR

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	622	641	3.05	30% (+/-)	Yes
% billing provider on LT claim	51.3	51.6	0.69	N/A	N/A
% NPI billing provider on LT claim	48.7	48.4	-0.72	N/A	N/A
% also a provider on IP claim	0.5	0.8	61.83	N/A	N/A
% also a provider on OT claim	12.9	9.0	-29.65	N/A	N/A
% also a provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% provider IDs with NPI	99.7	99.7	0.01	30% (+/-)	Yes
% provider IDs linked to NPPES	99.7	99.7	0.01	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	2,575.8	2,500.7	-2.92	30% (+/-)	Yes
average number of beneficiaries with LT claims	97.6	97.5	-0.08	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	620	639	3.06	30% (+/-)	Yes
% NPI source = MSIS	99.7	99.7	0.01	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.3	-3.10	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	620	639	3.06	30% (+/-)	Yes
% linked via NPI	99.7	99.7	0.01	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.3	0.3	-3.10	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	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	97.4	97.2	-0.24	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	98.7	98.7	0.04	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	100.0	0.00	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	612	631	3.10	30% (+/-)	Yes
% individual or group of individuals	0.5	1.0	94.08	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.2	0.0	-100.00	30% (+/-)	Yes
% behavioral health and social service providers	0.3	0.3	-3.06	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: AR

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	0.6	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	99.5	99.0	-0.46	30% (+/-)	Yes
% agencies	1.3	0.6	-51.49	30% (+/-)	Yes
% ambulatory health care facilities	0.7	0.6	-3.06	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	4.4	5.2	18.54	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	86.3	85.9	-0.44	30% (+/-)	Yes
% residential treatment facilities	6.9	6.7	-3.02	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	620	639	3.06	30% (+/-)	Yes
% organization is a subpart	4.8	5.0	3.49	30% (+/-)	Yes
% organization is not a subpart	57.7	64.2	11.12	30% (+/-)	Yes
% not answered	37.4	30.8	-17.61	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: AR

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	44,258	44,992	1.66	30% (+/-)	Yes
% billing provider on OT claim	24.8	23.1	-6.83	N/A	N/A
% servicing provider on OT claim	58.3	57.1	-2.01	N/A	N/A
% NPI servicing provider on OT claim	41.7	42.9	2.81	N/A	N/A
% also a provider on IP claim	0.4	0.3	-12.44	N/A	N/A
% also a provider on LT claim	0.2	0.0	-77.90	N/A	N/A
% also a provider on RX claim	15.7	15.8	0.75	N/A	N/A
% provider IDs with NPI	70.6	72.7	2.97	30% (+/-)	Yes
% provider IDs linked to NPES	70.4	72.7	3.33	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	1,382.3	1,539.7	11.39	30% (+/-)	Yes
average number of beneficiaries with OT claims	204.3	218.6	6.98	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	31,261	32,723	4.68	30% (+/-)	Yes
% NPI source = MSIS	93.7	93.3	-0.38	30% (+/-)	Yes
% NPI source = NPES	6.3	6.7	5.64	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPES					
Number of provider IDs linked to NPES	31,137	32,707	5.04	30% (+/-)	Yes
% linked via NPI	93.6	93.3	-0.36	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	4.8	5.5	13.18	30% (+/-)	Yes
% linked via Medicare UPIN	1.5	1.2	-19.51	30% (+/-)	Yes
% with name prefix	38.6	38.3	-0.71	30% (+/-)	Yes
% with first name	85.5	86.0	0.60	30% (+/-)	Yes
% with middle name	61.6	62.0	0.74	30% (+/-)	Yes
% with last name	85.5	86.0	0.60	30% (+/-)	Yes
% with name suffix	3.4	3.3	-3.08	30% (+/-)	Yes
% male	45.7	44.9	-1.67	30% (+/-)	Yes
% female	39.8	41.0	3.22	30% (+/-)	Yes
% with credential	77.2	77.3	0.21	30% (+/-)	Yes
% with business name	14.5	13.6	-6.75	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.47	30% (+/-)	Yes
% with city	100.0	99.5	-0.47	30% (+/-)	Yes
% with state	100.0	99.5	-0.47	30% (+/-)	Yes
% state = OT state code	78.7	77.7	-1.23	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.47	30% (+/-)	Yes
% with primary taxonomy	99.4	98.6	-0.82	30% (+/-)	Yes
% with provider entity type = individual	85.5	86.0	0.60	30% (+/-)	Yes
% with provider entity type = organization	14.5	13.6	-6.75	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 NPES Primary Taxonomy					
Number of provider IDs with NPES primary taxonomy	31,018	32,250	3.97	30% (+/-)	Yes
% individual or group of individuals	85.6	89.5	4.57	30% (+/-)	Yes
% allopathic and osteopathic physicians	42.5	42.2	-0.72	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: AR

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	7.0	7.9	12.90	30% (+/-)	Yes
% chiropractic providers	1.0	0.9	-11.23	30% (+/-)	Yes
% dental providers	0.4	0.5	11.19	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	-51.82	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	0.00	30% (+/-)	Yes
% eye and vision service providers	2.5	2.6	0.95	30% (+/-)	Yes
% nursing service providers	1.7	1.2	-30.62	30% (+/-)	Yes
% nursing service-related providers	0.2	0.5	250.66	30% (+/-)	Yes
% other service providers	7.7	9.7	26.13	30% (+/-)	Yes
% pharmacy service providers	0.1	0.1	13.79	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	5.0	6.6	31.17	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.6	1.14	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	7.1	8.0	13.58	30% (+/-)	Yes
% speech, language, and hearing service providers	7.6	8.2	8.33	30% (+/-)	Yes
% student health care	0.2	0.3	42.11	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	39.66	30% (+/-)	Yes
% group of individuals with multi- or single specialty	1.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	14.4	10.5	-27.10	30% (+/-)	Yes
% agencies	2.0	1.9	-2.26	30% (+/-)	Yes
% ambulatory health care facilities	4.2	1.6	-62.94	30% (+/-)	Yes
% hospital units	0.0	0.0	100.00	30% (+/-)	Yes
% hospitals	0.7	0.6	-5.78	30% (+/-)	Yes
% laboratories	0.6	0.5	-10.52	30% (+/-)	Yes
% managed care organizations	0.0	0.0	34.29	30% (+/-)	Yes
% nursing and custodial care facilities	0.4	0.1	-66.90	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	10.26	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	5.7	4.9	-13.56	30% (+/-)	Yes
% transportation services	0.8	0.7	-8.88	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	26,609	28,120	5.68	30% (+/-)	Yes
% a sole proprietorship	22.2	22.8	2.87	30% (+/-)	Yes
% not a sole proprietorship	68.4	71.0	3.83	30% (+/-)	Yes
% not answered	9.4	6.2	-34.60	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	4,528	4,435	-2.05	30% (+/-)	Yes
% organization is a subpart	14.6	16.2	11.07	30% (+/-)	Yes
% organization is not a subpart	67.7	70.3	3.80	30% (+/-)	Yes
% not answered	17.7	13.5	-23.62	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: AR

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	13,181	12,872	-2.34	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	83.1	80.6	-3.01	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	1.9	1.6	-12.44	N/A	N/A
% also a provider on LT claim	0.5	0.4	-31.74	N/A	N/A
% also a provider on RX claim	22.2	23.1	3.90	N/A	N/A
% provider IDs with NPI	46.1	48.1	4.54	30% (+/-)	Yes
% provider IDs linked to NPPES	45.9	48.1	4.94	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	3,540.5	3,713.9	4.90	30% (+/-)	Yes
average number of beneficiaries with OT claims	378.9	398.3	5.11	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	6,070	6,197	2.09	30% (+/-)	Yes
% NPI source = MSIS	74.3	70.8	-4.59	30% (+/-)	Yes
% NPI source = NPPES	25.8	29.2	13.24	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	6,044	6,194	2.48	30% (+/-)	Yes
% linked via NPI	74.1	70.8	-4.47	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	25.9	29.2	12.81	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	28.7	27.6	-3.77	30% (+/-)	Yes
% with first name	51.1	51.0	-0.21	30% (+/-)	Yes
% with middle name	43.4	42.5	-2.16	30% (+/-)	Yes
% with last name	51.1	51.0	-0.21	30% (+/-)	Yes
% with name suffix	3.3	3.1	-7.79	30% (+/-)	Yes
% male	37.6	36.4	-3.19	30% (+/-)	Yes
% female	13.5	14.6	8.12	30% (+/-)	Yes
% with credential	49.7	49.5	-0.38	30% (+/-)	Yes
% with business name	48.9	48.5	-0.77	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.48	30% (+/-)	Yes
% with city	100.0	99.5	-0.48	30% (+/-)	Yes
% with state	100.0	99.5	-0.48	30% (+/-)	Yes
% state = OT state code	82.7	83.6	1.11	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.48	30% (+/-)	Yes
% with primary taxonomy	99.4	98.5	-0.88	30% (+/-)	Yes
% with provider entity type = individual	51.1	51.0	-0.21	30% (+/-)	Yes
% with provider entity type = organization	48.9	48.5	-0.77	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	6,022	6,104	1.36	30% (+/-)	Yes
% individual or group of individuals	64.9	65.8	1.46	30% (+/-)	Yes
% allopathic and osteopathic physicians	39.6	38.5	-2.83	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: AR

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	1.6	1.5	-3.39	30% (+/-)	Yes
% chiropractic providers	2.2	2.1	-6.47	30% (+/-)	Yes
% dental providers	1.7	2.1	26.00	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	122.73	30% (+/-)	Yes
% eye and vision service providers	5.4	5.7	5.02	30% (+/-)	Yes
% nursing service providers	0.5	0.1	-79.01	30% (+/-)	Yes
% nursing service-related providers	0.2	0.2	18.67	30% (+/-)	Yes
% other service providers	3.5	5.0	42.82	30% (+/-)	Yes
% pharmacy service providers	0.1	0.3	109.77	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	2.1	2.7	28.17	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.3	1.4	3.66	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.4	2.3	-4.71	30% (+/-)	Yes
% speech, language, and hearing service providers	3.7	3.8	2.71	30% (+/-)	Yes
% student health care	0.1	0.0	-50.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	-25.76	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	35.1	34.2	-2.70	30% (+/-)	Yes
% agencies	5.4	7.2	34.17	30% (+/-)	Yes
% ambulatory health care facilities	5.6	5.3	-5.12	30% (+/-)	Yes
% hospital units	0.0	0.0	0.00	30% (+/-)	Yes
% hospitals	3.8	3.7	-0.48	30% (+/-)	Yes
% laboratories	1.2	1.3	9.98	30% (+/-)	Yes
% managed care organizations	0.1	0.1	18.07	30% (+/-)	Yes
% nursing and custodial care facilities	1.6	0.9	-42.59	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-18.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	15.2	13.5	-11.36	30% (+/-)	Yes
% transportation services	2.1	2.0	-8.22	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	3,089	3,159	2.27	30% (+/-)	Yes
% a sole proprietorship	30.4	31.3	2.89	30% (+/-)	Yes
% not a sole proprietorship	59.9	62.0	3.54	30% (+/-)	Yes
% not answered	9.7	6.7	-31.00	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	2,955	3,005	1.69	30% (+/-)	Yes
% organization is a subpart	13.3	14.4	8.33	30% (+/-)	Yes
% organization is not a subpart	75.2	78.2	3.96	30% (+/-)	Yes
% not answered	11.5	7.4	-35.60	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: AR
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	1,719	1,683	-2.09	30% (+/-)	Yes
% billing provider on RX claim	50.1	50.1	0.01	N/A	N/A
% prescribing provider on RX claim	47.8	0.0	-100.00	N/A	N/A
% NPI billing provider on RX claim	49.9	49.9	-0.01	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	23.0	20.0	-12.86	N/A	N/A
% provider IDs with NPI	99.8	100.0	0.18	30% (+/-)	Yes
% provider IDs linked to NPPES	99.3	100.0	0.70	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	5,841.5	5,915.9	1.27	30% (+/-)	Yes
average number of beneficiaries with RX claims	822.7	819.6	-0.38	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,716	1,683	-1.92	30% (+/-)	Yes
% NPI source = MSIS	99.9	100.0	0.06	30% (+/-)	Yes
% NPI source = NPPES	0.1	0.0	-100.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,707	1,683	-1.41	30% (+/-)	Yes
% linked via NPI	99.9	100.0	0.06	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.0	-100.00	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.5	0.4	-32.26	30% (+/-)	Yes
% with first name	0.8	0.6	-22.05	30% (+/-)	Yes
% with middle name	0.8	0.6	-22.05	30% (+/-)	Yes
% with last name	0.8	0.6	-22.05	30% (+/-)	Yes
% with name suffix	0.3	0.1	-59.39	30% (+/-)	Yes
% male	0.8	0.6	-22.05	30% (+/-)	Yes
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.6	0.5	-26.24	30% (+/-)	Yes
% with business name	99.2	98.9	-0.31	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.47	30% (+/-)	Yes
% with city	100.0	99.5	-0.47	30% (+/-)	Yes
% with state	100.0	99.5	-0.47	30% (+/-)	Yes
% state = RX state code	88.3	87.8	-0.53	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.47	30% (+/-)	Yes
% with primary taxonomy	98.5	98.6	0.04	30% (+/-)	Yes
% with provider entity type = individual	0.8	0.6	-22.05	30% (+/-)	Yes
% with provider entity type = organization	99.2	98.9	-0.31	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	1,684	1,659	-1.48	30% (+/-)	Yes
% individual or group of individuals	8.3	8.0	-3.57	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: AR

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	0.1	0.1	1.68	30% (+/-)	Yes
% eye and vision service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% 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	8.1	7.9	-2.23	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	91.7	92.0	0.32	30% (+/-)	Yes
% agencies	0.1	0.1	1.68	30% (+/-)	Yes
% 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	0.1	0.0	-100.00	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.1	0.1	1.68	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	91.3	91.7	0.45	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	13	10	-23.08	30% (+/-)	Yes
% a sole proprietorship	46.2	40.0	-13.33	30% (+/-)	Yes
% not a sole proprietorship	53.8	60.0	11.43	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	1,694	1,665	-1.71	30% (+/-)	Yes
% organization is a subpart	27.6	33.3	20.65	30% (+/-)	Yes
% organization is not a subpart	57.5	55.0	-4.32	30% (+/-)	Yes
% not answered	14.9	11.7	-21.67	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: AR

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	9,185	8,741	-4.83	30% (+/-)	Yes
% billing provider on RX claim	8.9	0.0	-100.00	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	-30.30	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	71.9	77.7	8.01	N/A	N/A
% provider IDs with NPI	66.8	65.7	-1.64	30% (+/-)	Yes
% provider IDs linked to NPPES	66.5	65.7	-1.22	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	1,071.3	550.4	-48.62	30% (+/-)	No
average number of beneficiaries with RX claims	190.7	117.6	-38.36	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	6,131	5,739	-6.39	30% (+/-)	Yes
% NPI source = MSIS	84.8	78.7	-7.14	30% (+/-)	Yes
% NPI source = NPPES	15.2	21.3	39.80	30% (+/-)	No
% 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	6,105	5,739	-6.00	30% (+/-)	Yes
% linked via NPI	84.7	78.7	-7.07	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	15.3	21.3	39.21	30% (+/-)	No
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	42.1	48.2	14.31	30% (+/-)	Yes
% with first name	85.1	97.5	14.57	30% (+/-)	Yes
% with middle name	67.3	77.7	15.54	30% (+/-)	Yes
% with last name	85.1	97.5	14.57	30% (+/-)	Yes
% with name suffix	5.0	5.5	9.87	30% (+/-)	Yes
% male	64.6	72.4	12.10	30% (+/-)	Yes
% female	20.5	25.1	22.34	30% (+/-)	Yes
% with credential	84.3	96.3	14.30	30% (+/-)	Yes
% with business name	14.9	2.0	-86.78	30% (+/-)	No
% with address line 1	100.0	99.5	-0.52	30% (+/-)	Yes
% with city	100.0	99.5	-0.52	30% (+/-)	Yes
% with state	100.0	99.5	-0.52	30% (+/-)	Yes
% state = RX state code	80.6	78.2	-2.99	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.52	30% (+/-)	Yes
% with primary taxonomy	99.3	98.7	-0.54	30% (+/-)	Yes
% with provider entity type = individual	85.1	97.5	14.57	30% (+/-)	Yes
% with provider entity type = organization	14.9	2.0	-86.78	30% (+/-)	No
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	6,074	5,667	-6.70	30% (+/-)	Yes
% individual or group of individuals	83.4	99.2	18.83	30% (+/-)	Yes
% allopathic and osteopathic physicians	66.1	77.5	17.22	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: AR

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	0.3	0.3	13.18	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	1.5	2.2	49.60	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.1	79.59	30% (+/-)	Yes
% eye and vision service providers	4.7	5.3	14.35	30% (+/-)	Yes
% nursing service providers	0.2	0.1	-46.46	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-100.00	30% (+/-)	Yes
% other service providers	2.9	5.0	72.91	30% (+/-)	Yes
% pharmacy service providers	1.1	0.0	-100.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	4.4	6.9	56.58	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.1	1.1	8.82	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.1	60.61	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.5	0.4	-19.52	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	16.6	0.8	-94.89	30% (+/-)	No
% agencies	0.3	0.1	-77.32	30% (+/-)	Yes
% ambulatory health care facilities	3.9	0.6	-84.23	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.2	0.2	-25.70	30% (+/-)	Yes
% laboratories	0.0	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	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	12.1	0.0	-100.00	30% (+/-)	No
% 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	5,196	5,596	7.70	30% (+/-)	Yes
% a sole proprietorship	17.3	17.9	3.52	30% (+/-)	Yes
% not a sole proprietorship	72.8	76.0	4.31	30% (+/-)	Yes
% not answered	9.9	6.1	-37.86	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	909	113	-87.57	30% (+/-)	No
% organization is a subpart	25.5	4.4	-82.66	30% (+/-)	No
% organization is not a subpart	60.6	87.6	44.53	30% (+/-)	No
% not answered	13.9	8.0	-42.54	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: AR

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	50,371	51,573	2.39	30%(+/-)	Yes
% billing provider on IP claim	0.5	0.5	-12.13	N/A	N/A
% NPI billing provider on IP claim	0.4	0.4	-10.07	N/A	N/A
% billing provider on LT claim	0.6	0.6	1.42	N/A	N/A
% NPI billing provider on LT claim	0.6	0.6	-0.17	N/A	N/A
% billing provider on OT claim	26.2	25.0	-4.62	N/A	N/A
% servicing provider on OT claim	51.2	49.8	-2.70	N/A	N/A
% NPI servicing provider on OT claim	36.7	37.4	2.08	N/A	N/A
% billing provider on RX claim	1.7	1.6	-4.32	N/A	N/A
% prescribing provider on RX claim	18.2	16.9	-7.05	N/A	N/A
% NPI billing provider on RX claim	1.7	1.6	-4.35	N/A	N/A
% billing provider	28.3	27.2	-4.16	N/A	N/A
% NPI billing provider	2.7	2.6	-4.40	N/A	N/A
% servicing provider	51.2	49.8	-2.70	N/A	N/A
% NPI servicing provider	36.7	37.4	2.08	N/A	N/A
% prescribing provider	18.2	16.9	-7.05	N/A	N/A
% provider IDs with NPI	67.5	69.3	2.62	30%(+/-)	Yes
% provider IDs linked to NPPES	67.3	69.3	2.97	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	1,867.7	1,861.4	-0.34	30%(+/-)	Yes
average number of beneficiaries with claims	248.0	246.4	-0.66	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	34,015	35,738	5.07	30%(+/-)	Yes
% NPI source = MSIS	92.3	91.7	-0.74	30%(+/-)	Yes
% NPI source = NPPES	7.7	8.3	8.88	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	33,884	35,722	5.42	30%(+/-)	Yes
% linked via NPI	92.3	91.7	-0.71	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	6.3	7.2	14.88	30%(+/-)	Yes
% linked via Medicare UPIN	1.4	1.1	-19.80	30%(+/-)	Yes
% with name prefix	35.7	35.3	-0.91	30%(+/-)	Yes
% with first name	78.9	79.2	0.38	30%(+/-)	Yes
% with middle name	56.9	57.2	0.50	30%(+/-)	Yes
% with last name	78.9	79.2	0.38	30%(+/-)	Yes
% with name suffix	3.1	3.0	-3.42	30%(+/-)	Yes
% male	42.2	41.4	-1.90	30%(+/-)	Yes
% female	36.7	37.8	3.00	30%(+/-)	Yes
% with credential	71.3	71.3	-0.02	30%(+/-)	Yes
% with business name	21.1	20.3	-3.51	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.44	30%(+/-)	Yes
% with city	100.0	99.6	-0.44	30%(+/-)	Yes
% with state	100.0	99.6	-0.44	30%(+/-)	Yes
% state = claim file state code	79.1	78.3	-0.98	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.44	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: AR

Produced: 02/21/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.4	98.6	-0.72	30%(+/-)	Yes
% with provider entity type = individual	78.9	79.2	0.38	30%(+/-)	Yes
% with provider entity type = organization	21.1	20.3	-3.51	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	33,730	35,238	4.47	30%(+/-)	Yes
% individual or group of individuals	80.3	83.7	4.15	30%(+/-)	Yes
% allopathic and osteopathic physicians	39.7	39.3	-0.93	30%(+/-)	Yes
% behavioral health and social service providers	6.5	7.3	12.42	30%(+/-)	Yes
% chiropractic providers	0.9	0.8	-10.32	30%(+/-)	Yes
% dental providers	0.5	0.6	12.32	30%(+/-)	Yes
% dietary and nutritional service providers	0.1	0.0	-52.48	30%(+/-)	Yes
% emergency medical service providers	0.1	0.1	-1.20	30%(+/-)	Yes
% eye and vision service providers	2.4	2.4	1.30	30%(+/-)	Yes
% nursing service providers	1.7	1.1	-33.49	30%(+/-)	Yes
% nursing service-related providers	0.1	0.5	251.08	30%(+/-)	Yes
% other service providers	7.2	9.0	25.66	30%(+/-)	Yes
% pharmacy service providers	0.5	0.4	-6.74	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	4.7	6.2	31.30	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.6	0.17	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	6.5	7.4	13.10	30%(+/-)	Yes
% speech, language, and hearing service providers	7.0	7.6	7.82	30%(+/-)	Yes
% student health care	0.2	0.3	22.60	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	39.62	30%(+/-)	Yes
% group of individuals with multi- or single specialty	1.6	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	19.7	16.3	-16.93	30%(+/-)	Yes
% agencies	2.2	2.3	6.49	30%(+/-)	Yes
% ambulatory health care facilities	4.1	1.6	-60.17	30%(+/-)	Yes
% hospital units	0.0	0.0	50.00	30%(+/-)	Yes
% hospitals	1.5	1.4	-5.58	30%(+/-)	Yes
% laboratories	0.5	0.5	-11.37	30%(+/-)	Yes
% managed care organizations	0.0	0.1	22.73	30%(+/-)	Yes
% nursing and custodial care facilities	1.7	1.7	-4.57	30%(+/-)	Yes
% residential treatment facilities	0.2	0.2	-2.55	30%(+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30%(+/-)	N/A
% suppliers	8.7	7.9	-8.41	30%(+/-)	Yes
% transportation services	0.7	0.7	-9.62	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	26,744	28,301	5.82	30%(+/-)	Yes
% a sole proprietorship	22.2	22.8	2.72	30%(+/-)	Yes
% not a sole proprietorship	68.5	71.1	3.87	30%(+/-)	Yes
% not answered	9.4	6.1	-34.69	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	7,140	7,263	1.72	30%(+/-)	Yes
% organization is a subpart	14.7	16.5	12.67	30%(+/-)	Yes
% organization is not a subpart	67.4	69.7	3.44	30%(+/-)	Yes
% not answered	18.0	13.8	-23.22	N/A	N/A

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

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