Medicaid Analytic Extract Provider Characteristics (MAXPC)

State-Specific Validation Tables, 2010

Alabama

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

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[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: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
IP Providers					
Number of provider IDs	573	590	2.97	30% (+/-)	Yes
% billing provider on IP claim	50.3	50.3	0.15	N/A	N/A
% NPI billing provider on IP claim	49.7	49.7	-0.15	N/A	N/A
% also a provider on LT claim	2.1	0.7	-67.62	N/A	N/A
% also a provider on OT claim	82.7	86.3	4.29	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	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	548.7	557.8	1.66	30% (+/-)	Yes
average number of beneficiaries with IP claims	429.3	432.8	0.82	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	573	590	2.97	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	573	590	2.97	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = IP state code	40.7	40.7	0.04	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	100.0	99.7	-0.34	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	573	588	2.62	30% (+/-)	Yes
% individual or group of individuals	0.7	0.0	-100.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.3	0.0	-100.00	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX IP Billing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

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	0.3	0.0	-100.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.3	100.0	0.70	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.7	0.0	-100.00	30% (+/-)	Yes
% hospital units	2.4	4.1	67.09	30% (+/-)	Yes
% hospitals	95.6	95.9	0.29	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	0.5	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	573	590	2.97	30% (+/-)	Yes
% organization is a subpart	6.6	7.1	7.34	30% (+/-)	Yes
% organization is not a subpart	82.2	82.9	0.83	30% (+/-)	Yes
% not answered	11.2	10.0	-10.47	N/A	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
LT Providers					
Number of provider IDs	538	523	-2.79	30% (+/-)	Yes
% billing provider on LT claim	50.7	50.7	-0.15	N/A	N/A
% NPI billing provider on LT claim	49.3	49.3	0.15	N/A	N/A
% also a provider on IP claim	2.2	0.8	-65.70	N/A	N/A
% also a provider on OT claim	48.7	48.2	-1.06	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	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	98.5	100.0	1.51	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	1,101.1	1,124.2	2.10	30% (+/-)	Yes
average number of beneficiaries with LT claims	111.0	114.1	2.77	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	538	523	-2.79	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	530	523	-1.32	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	98.5	-1.53	30% (+/-)	Yes
% with address line 1	100.0	98.5	-1.53	30% (+/-)	Yes
% with city	100.0	98.5	-1.53	30% (+/-)	Yes
% with state	100.0	98.5	-1.53	30% (+/-)	Yes
% state = LT state code	99.6	98.5	-1.16	30% (+/-)	Yes
% with zip code	100.0	98.5	-1.53	30% (+/-)	Yes
% with primary taxonomy	100.0	97.1	-2.87	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	98.5	-1.53	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	538	508	-5.58	30% (+/-)	Yes
% individual or group of individuals	0.2	0.0	-100.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% chiropractic providers	0.2	0.0	-100.00	30% (+/-)	Yes
% 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	99.8	100.0	0.19	30% (+/-)	Yes
% agencies	1.7	0.8	-52.96	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	2.2	1.2	-47.04	30% (+/-)	Yes
% hospitals	5.0	5.1	1.97	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	83.6	86.8	3.79	30% (+/-)	Yes
% residential treatment facilities	6.5	6.1	-6.21	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.7	0.0	-100.00	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	530	515	-2.83	30% (+/-)	Yes
% organization is a subpart	11.1	12.8	15.13	30% (+/-)	Yes
% organization is not a subpart	57.4	64.9	13.07	30% (+/-)	Yes
% not answered	31.5	22.3	-29.13	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: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	44,185	47,397	7.27	30% (+/-)	Yes
% billing provider on OT claim	9.2	6.8	-26.40	N/A	N/A
% servicing provider on OT claim	61.2	61.3	0.23	N/A	N/A
% NPI servicing provider on OT claim	38.8	38.7	-0.36	N/A	N/A
% also a provider on IP claim	1.1	0.6	-41.90	N/A	N/A
% also a provider on LT claim	0.2	0.1	-53.72	N/A	N/A
% also a provider on RX claim	1.2	1.2	-1.61	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	99.7	99.9	0.23	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,341.4	1,251.0	-6.74	30% (+/-)	Yes
average number of beneficiaries with OT claims	238.6	226.9	-4.90	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	44,179	47,392	7.27	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.01	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	-100.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	44,058	47,370	7.52	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.01	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	-100.00	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	38.7	39.5	1.88	30% (+/-)	Yes
% with first name	84.7	86.8	2.45	30% (+/-)	Yes
% with middle name	71.5	73.5	2.74	30% (+/-)	Yes
% with last name	84.7	86.8	2.45	30% (+/-)	Yes
% with name suffix	7.5	7.3	-2.54	30% (+/-)	Yes
% male	60.6	61.2	0.93	30% (+/-)	Yes
% female	24.1	25.6	6.26	30% (+/-)	Yes
% with credential	83.3	85.3	2.39	30% (+/-)	Yes
% with business name	15.3	12.9	-15.89	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.36	30% (+/-)	Yes
% with city	100.0	99.6	-0.36	30% (+/-)	Yes
% with state	100.0	99.6	-0.36	30% (+/-)	Yes
% state = OT state code	80.0	77.8	-2.78	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.36	30% (+/-)	Yes
% with primary taxonomy	99.7	97.7	-2.07	30% (+/-)	Yes
% with provider entity type = individual	84.7	86.8	2.45	30% (+/-)	Yes
% with provider entity type = organization	15.3	12.9	-15.89	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	44,063	46,266	5.00	30% (+/-)	Yes
% individual or group of individuals	85.3	88.6	3.79	30% (+/-)	Yes
% allopathic and osteopathic physicians	58.3	62.2	6.71	30% (+/-)	Yes

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.8	0.9	13.92	30% (+/-)	Yes
% chiropractic providers	4.6	0.0	-99.15	30% (+/-)	Yes
% dental providers	3.3	3.7	10.36	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-71.43	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	37.04	30% (+/-)	Yes
% eye and vision service providers	2.3	2.3	2.11	30% (+/-)	Yes
% nursing service providers	0.1	0.1	18.58	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	2.4	3.7	54.13	30% (+/-)	Yes
% pharmacy service providers	0.1	0.1	-16.48	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	10.6	12.5	18.11	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.3	0.4	22.07	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	1.4	18.92	30% (+/-)	Yes
% speech, language, and hearing service providers	0.6	0.7	29.84	30% (+/-)	Yes
% student health care	0.2	0.5	193.98	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.5	0.0	-96.93	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	14.7	11.4	-22.07	30% (+/-)	Yes
% agencies	3.3	2.2	-34.56	30% (+/-)	Yes
% ambulatory health care facilities	1.6	1.0	-41.55	30% (+/-)	Yes
% hospital units	0.0	0.0	-59.26	30% (+/-)	Yes
% hospitals	2.5	1.4	-45.20	30% (+/-)	Yes
% laboratories	0.6	0.8	20.92	30% (+/-)	Yes
% managed care organizations	0.2	0.0	-79.79	30% (+/-)	Yes
% nursing and custodial care facilities	0.2	0.1	-51.59	30% (+/-)	Yes
% residential treatment facilities	0.3	0.4	42.53	30% (+/-)	Yes
% respite care facility	0.0	0.0	550.00	30% (+/-)	Yes
% suppliers	5.1	4.9	-4.45	30% (+/-)	Yes
% transportation services	0.8	0.8	-5.56	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	37,315	41,102	10.15	30% (+/-)	Yes
% a sole proprietorship	14.6	15.9	8.44	30% (+/-)	Yes
% not a sole proprietorship	74.1	76.6	3.32	30% (+/-)	Yes
% not answered	11.2	7.5	-32.89	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	6,743	6,098	-9.57	30% (+/-)	Yes
% organization is a subpart	12.0	13.5	12.21	30% (+/-)	Yes
% organization is not a subpart	55.9	60.9	8.88	30% (+/-)	Yes
% not answered	32.1	25.6	-20.04	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: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
OT Providers					
Number of provider IDs	7,784	7,896	1.44	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	52.5	40.8	-22.17	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	3.1	3.3	7.14	N/A	N/A
% also a provider on LT claim	2.7	2.7	-0.95	N/A	N/A
% also a provider on RX claim	0.0	0.0	-100.00	N/A	N/A
% provider IDs with NPI	65.1	57.5	-11.56	30% (+/-)	Yes
% provider IDs linked to NPPES	64.8	57.5	-11.18	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	4,812.9	4,799.8	-0.27	30% (+/-)	Yes
average number of beneficiaries with OT claims	608.3	633.4	4.13	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	5,064	4,543	-10.29	30% (+/-)	Yes
% NPI source = MSIS	84.3	80.5	-4.61	30% (+/-)	Yes
% NPI source = NPPES	15.7	19.5	24.82	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	5,041	4,542	-9.90	30% (+/-)	Yes
% linked via NPI	84.3	80.4	-4.53	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	15.3	18.8	22.62	30% (+/-)	Yes
% linked via Medicare UPIN	0.4	0.7	88.66	30% (+/-)	Yes
% with name prefix	15.4	15.6	1.29	30% (+/-)	Yes
% with first name	23.8	24.0	1.00	30% (+/-)	Yes
% with middle name	21.2	21.5	1.53	30% (+/-)	Yes
% with last name	23.8	24.0	1.00	30% (+/-)	Yes
% with name suffix	3.1	2.9	-6.21	30% (+/-)	Yes
% male	19.8	19.7	-0.58	30% (+/-)	Yes
% female	4.0	4.4	8.78	30% (+/-)	Yes
% with credential	23.3	23.5	0.70	30% (+/-)	Yes
% with business name	76.2	75.6	-0.80	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.37	30% (+/-)	Yes
% with city	100.0	99.6	-0.37	30% (+/-)	Yes
% with state	100.0	99.6	-0.37	30% (+/-)	Yes
% state = OT state code	81.7	83.2	1.80	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.37	30% (+/-)	Yes
% with primary taxonomy	99.0	96.2	-2.78	30% (+/-)	Yes
% with provider entity type = individual	23.8	24.0	1.00	30% (+/-)	Yes
% with provider entity type = organization	76.2	75.6	-0.80	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	5,013	4,371	-12.81	30% (+/-)	Yes
% individual or group of individuals	37.6	40.7	8.18	30% (+/-)	Yes
% allopathic and osteopathic physicians	21.4	23.8	11.48	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 Billing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.7	0.9	24.50	30% (+/-)	Yes
% chiropractic providers	1.0	0.2	-80.14	30% (+/-)	Yes
% dental providers	5.6	6.0	7.74	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	15.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-23.33	30% (+/-)	Yes
% eye and vision service providers	3.6	3.9	8.91	30% (+/-)	Yes
% nursing service providers	0.2	0.3	26.63	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	2.4	3.2	33.64	30% (+/-)	Yes
% pharmacy service providers	0.3	0.4	21.53	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.7	0.6	-15.63	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.6	3.34	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.3	0.3	32.43	30% (+/-)	Yes
% speech, language, and hearing service providers	0.3	0.3	22.94	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.1	0.0	-54.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.4	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	62.4	59.3	-4.93	30% (+/-)	Yes
% agencies	12.5	7.6	-39.26	30% (+/-)	No
% ambulatory health care facilities	5.5	4.7	-13.78	30% (+/-)	Yes
% hospital units	0.1	0.0	-100.00	30% (+/-)	Yes
% hospitals	10.5	7.5	-27.99	30% (+/-)	Yes
% laboratories	2.8	4.1	47.67	30% (+/-)	Yes
% managed care organizations	0.3	0.2	-42.65	30% (+/-)	Yes
% nursing and custodial care facilities	4.2	4.9	15.77	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	15.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	22.7	25.9	14.28	30% (+/-)	Yes
% transportation services	3.9	4.4	13.50	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	1,200	1,092	-9.00	30% (+/-)	Yes
% a sole proprietorship	54.3	58.2	7.36	30% (+/-)	Yes
% not a sole proprietorship	36.3	35.3	-2.71	30% (+/-)	Yes
% not answered	9.4	6.4	-31.93	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	3,841	3,433	-10.62	30% (+/-)	Yes
% organization is a subpart	13.3	14.7	10.78	30% (+/-)	Yes
% organization is not a subpart	60.7	68.9	13.56	30% (+/-)	Yes
% not answered	26.1	16.4	-37.07	N/A	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	2,797	2,819	0.79	30% (+/-)	Yes
% billing provider on RX claim	50.1	50.3	0.28	N/A	N/A
% prescribing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% NPI billing provider on RX claim	49.9	49.7	-0.28	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	18.1	19.5	7.44	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPPES	99.7	100.0	0.29	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	6,407.0	6,779.5	5.81	30% (+/-)	Yes
average number of beneficiaries with RX claims	648.3	666.3	2.76	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	2,797	2,819	0.79	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	2,789	2,819	1.08	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	0.2	0.2	-0.93	30% (+/-)	Yes
% with first name	0.4	0.4	-1.11	30% (+/-)	Yes
% with middle name	0.3	0.3	-1.05	30% (+/-)	Yes
% with last name	0.4	0.4	-1.11	30% (+/-)	Yes
% with name suffix	0.1	0.1	-0.70	30% (+/-)	Yes
% male	0.4	0.4	-1.11	30% (+/-)	Yes
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.3	0.3	-1.05	30% (+/-)	Yes
% with business name	99.6	98.9	-0.78	30% (+/-)	Yes
% with address line 1	100.0	99.2	-0.78	30% (+/-)	Yes
% with city	100.0	99.2	-0.78	30% (+/-)	Yes
% with state	100.0	99.2	-0.78	30% (+/-)	Yes
% state = RX state code	93.2	92.0	-1.26	30% (+/-)	Yes
% with zip code	100.0	99.2	-0.78	30% (+/-)	Yes
% with primary taxonomy	100.0	96.6	-3.41	30% (+/-)	Yes
% with provider entity type = individual	0.4	0.4	-1.11	30% (+/-)	Yes
% with provider entity type = organization	99.6	98.9	-0.78	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	2,797	2,723	-2.65	30% (+/-)	Yes
% individual or group of individuals	8.4	7.3	-13.09	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.1	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	8.1	7.2	-10.92	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	0.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	91.6	92.7	1.19	30% (+/-)	Yes
% agencies	0.1	0.1	104.17	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.4	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.0	0.0	Div by 0	30% (+/-)	N/A
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.1	Div by 0	30% (+/-)	N/A
% 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	91.5	92.1	0.71	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	10	10	0.00	30% (+/-)	Yes
% a sole proprietorship	80.0	80.0	0.00	30% (+/-)	Yes
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	20.0	20.0	0.00	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	2,779	2,787	0.29	30% (+/-)	Yes
% organization is a subpart	21.8	21.0	-3.75	30% (+/-)	Yes
% organization is not a subpart	62.8	66.8	6.40	30% (+/-)	Yes
% not answered	15.5	12.3	-20.69	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: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
RX Providers					
Number of provider IDs	13,796	13,834	0.28	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	0.1	0.0	-100.00	N/A	N/A
% provider IDs with NPI	3.9	4.2	6.15	30% (+/-)	Yes
% provider IDs linked to NPPES	3.9	4.2	6.15	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	649.5	690.7	6.35	30% (+/-)	Yes
average number of beneficiaries with RX claims	101.3	105.1	3.73	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	543	578	6.45	30% (+/-)	Yes
% NPI source = MSIS	2.4	0.0	-100.00	30% (+/-)	Yes
% NPI source = NPPES	97.6	100.0	2.45	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	543	578	6.45	30% (+/-)	Yes
% linked via NPI	2.4	0.0	-100.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	6.6	6.6	-0.84	30% (+/-)	Yes
% linked via Medicare UPIN	91.0	93.4	2.69	30% (+/-)	Yes
% with name prefix	44.6	42.6	-4.50	30% (+/-)	Yes
% with first name	75.9	75.1	-1.04	30% (+/-)	Yes
% with middle name	59.7	58.7	-1.71	30% (+/-)	Yes
% with last name	75.9	75.1	-1.04	30% (+/-)	Yes
% with name suffix	4.1	2.8	-31.69	30% (+/-)	Yes
% male	46.2	44.6	-3.44	30% (+/-)	Yes
% female	29.7	30.5	2.70	30% (+/-)	Yes
% with credential	72.9	71.8	-1.55	30% (+/-)	Yes
% with business name	24.1	24.9	3.27	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 = RX state code	8.7	6.9	-20.06	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	96.1	97.2	1.14	30% (+/-)	Yes
% with provider entity type = individual	75.9	75.1	-1.04	30% (+/-)	Yes
% with provider entity type = organization	24.1	24.9	3.27	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	522	562	7.66	30% (+/-)	Yes
% individual or group of individuals	91.6	91.5	-0.12	30% (+/-)	Yes
% allopathic and osteopathic physicians	39.5	36.7	-7.12	30% (+/-)	Yes

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table
State: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% behavioral health and social service providers	10.5	11.2	6.40	30% (+/-)	Yes
% chiropractic providers	12.6	10.0	-21.20	30% (+/-)	Yes
% dental providers	5.0	4.8	-3.55	30% (+/-)	Yes
% dietary and nutritional service providers	0.6	0.5	-7.13	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	6.1	5.9	-4.21	30% (+/-)	Yes
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.2	0.2	-7.29	30% (+/-)	Yes
% other service providers	4.6	4.3	-7.13	30% (+/-)	Yes
% pharmacy service providers	1.0	0.7	-25.68	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	7.1	12.3	73.22	30% (+/-)	No
% podiatric medicine and surgery service providers	1.3	0.9	-33.63	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.5	2.7	74.10	30% (+/-)	Yes
% speech, language, and hearing service providers	0.8	1.1	39.43	30% (+/-)	Yes
% student health care	0.6	0.2	-69.04	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.2	0.2	-7.29	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	8.4	8.5	1.33	30% (+/-)	Yes
% agencies	2.5	2.3	-7.11	30% (+/-)	Yes
% ambulatory health care facilities	3.3	3.4	3.81	30% (+/-)	Yes
% hospital units	0.2	0.2	-7.29	30% (+/-)	Yes
% hospitals	0.4	0.4	-7.05	30% (+/-)	Yes
% laboratories	0.2	0.2	-7.29	30% (+/-)	Yes
% managed care organizations	0.4	0.7	85.90	30% (+/-)	Yes
% nursing and custodial care facilities	0.2	0.2	-7.29	30% (+/-)	Yes
% residential treatment facilities	0.4	0.2	-53.52	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.8	0.7	-7.05	30% (+/-)	Yes
% transportation services	0.2	0.4	85.42	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	412	434	5.34	30% (+/-)	Yes
% a sole proprietorship	40.5	37.3	-7.91	30% (+/-)	Yes
% not a sole proprietorship	49.0	53.2	8.56	30% (+/-)	Yes
% not answered	10.4	9.4	-9.49	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	131	144	9.92	30% (+/-)	Yes
% organization is a subpart	4.6	4.9	6.14	30% (+/-)	Yes
% organization is not a subpart	55.0	63.9	16.24	30% (+/-)	Yes
% not answered	40.5	31.3	-22.76	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: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
All Providers					
Number of provider IDs	64,321	68,522	6.53	30%(+/-)	Yes
% billing provider on IP claim	0.4	0.4	-3.35	N/A	N/A
% NPI billing provider on IP claim	0.4	0.4	-3.39	N/A	N/A
% billing provider on LT claim	0.4	0.4	-8.73	N/A	N/A
% NPI billing provider on LT claim	0.4	0.4	-8.50	N/A	N/A
% billing provider on OT claim	12.1	11.5	-4.78	N/A	N/A
% servicing provider on OT claim	42.0	42.4	0.92	N/A	N/A
% NPI servicing provider on OT claim	26.7	26.8	0.33	N/A	N/A
% billing provider on RX claim	2.2	2.1	-5.14	N/A	N/A
% prescribing provider on RX claim	21.4	20.2	-5.87	N/A	N/A
% NPI billing provider on RX claim	2.2	2.0	-5.67	N/A	N/A
% billing provider	14.4	13.7	-5.02	N/A	N/A
% NPI billing provider	3.0	2.8	-5.54	N/A	N/A
% servicing provider	42.0	42.4	0.92	N/A	N/A
% NPI servicing provider	26.7	26.8	0.33	N/A	N/A
% prescribing provider	21.4	20.2	-5.87	N/A	N/A
% provider IDs with NPI	75.2	75.8	0.79	30%(+/-)	Yes
% provider IDs linked to NPPES	75.0	75.7	1.03	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	1,745.6	1,725.3	-1.16	30%(+/-)	Yes
average number of beneficiaries with claims	262.7	261.9	-0.31	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	48,344	51,909	7.37	30%(+/-)	Yes
% NPI source = MSIS	97.3	97.2	-0.09	30%(+/-)	Yes
% NPI source = NPPES	2.7	2.8	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	48,209	51,887	7.63	30%(+/-)	Yes
% linked via NPI	97.3	97.2	-0.08	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	1.7	1.7	2.32	30%(+/-)	Yes
% linked via Medicare UPIN	1.1	1.1	3.75	30%(+/-)	Yes
% with name prefix	36.0	36.6	1.72	30%(+/-)	Yes
% with first name	78.4	80.2	2.34	30%(+/-)	Yes
% with middle name	66.2	67.9	2.63	30%(+/-)	Yes
% with last name	78.4	80.2	2.34	30%(+/-)	Yes
% with name suffix	6.9	6.7	-2.84	30%(+/-)	Yes
% male	56.0	56.5	0.80	30%(+/-)	Yes
% female	22.4	23.8	6.21	30%(+/-)	Yes
% with credential	77.1	78.8	2.28	30%(+/-)	Yes
% with business name	21.6	19.4	-10.28	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.38	30%(+/-)	Yes
% with city	100.0	99.6	-0.38	30%(+/-)	Yes
% with state	100.0	99.6	-0.38	30%(+/-)	Yes
% state = claim file state code	80.1	77.8	-2.89	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.38	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: AL
Produced: 02/20/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range[a]
% with primary taxonomy	99.7	97.6	-2.08	30%(+/-)	Yes
% with provider entity type = individual	78.4	80.2	2.34	30%(+/-)	Yes
% with provider entity type = organization	21.6	19.4	-10.28	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	48,207	50,662	5.09	30%(+/-)	Yes
% individual or group of individuals	80.5	83.4	3.62	30%(+/-)	Yes
% allopathic and osteopathic physicians	54.5	58.0	6.53	30%(+/-)	Yes
% behavioral health and social service providers	0.8	0.9	12.95	30%(+/-)	Yes
% chiropractic providers	4.3	0.2	-96.40	30%(+/-)	Yes
% dental providers	3.1	3.4	10.02	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	-42.86	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	33.33	30%(+/-)	Yes
% eye and vision service providers	2.2	2.3	2.40	30%(+/-)	Yes
% nursing service providers	0.1	0.1	16.95	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	0.00	30%(+/-)	Yes
% other service providers	2.3	3.5	50.51	30%(+/-)	Yes
% pharmacy service providers	0.5	0.4	-16.63	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	9.8	11.6	18.57	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.3	0.3	15.38	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.1	1.4	19.65	30%(+/-)	Yes
% speech, language, and hearing service providers	0.5	0.7	29.76	30%(+/-)	Yes
% student health care	0.2	0.4	183.54	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.4	0.0	-96.43	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.2	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	19.5	16.6	-14.94	30%(+/-)	Yes
% agencies	3.4	2.3	-30.72	30%(+/-)	Yes
% ambulatory health care facilities	1.7	1.1	-33.63	30%(+/-)	Yes
% hospital units	0.1	0.1	19.64	30%(+/-)	Yes
% hospitals	2.6	1.9	-26.56	30%(+/-)	Yes
% laboratories	0.6	0.7	20.51	30%(+/-)	Yes
% managed care organizations	0.2	0.0	-73.22	30%(+/-)	Yes
% nursing and custodial care facilities	1.0	0.9	-6.93	30%(+/-)	Yes
% residential treatment facilities	0.3	0.4	29.70	30%(+/-)	Yes
% respite care facility	0.0	0.0	500.00	30%(+/-)	Yes
% suppliers	9.0	8.4	-6.71	30%(+/-)	Yes
% transportation services	0.8	0.7	-5.40	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	37,794	41,631	10.15	30%(+/-)	Yes
% a sole proprietorship	14.9	16.1	7.95	30%(+/-)	Yes
% not a sole proprietorship	73.9	76.3	3.35	30%(+/-)	Yes
% not answered	11.2	7.6	-32.67	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	10,415	10,058	-3.43	30%(+/-)	Yes
% organization is a subpart	13.9	14.3	3.12	30%(+/-)	Yes
% organization is not a subpart	59.1	64.8	9.53	30%(+/-)	Yes
% not answered	27.0	20.9	-22.47	N/A	N/A

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

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