

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

**State-Specific Validation Tables,
2010**

Kentucky

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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Submitted to:
Centers for Medicare & Medicaid Services
7500 Security Boulevard, B2-29-04
Baltimore, MD 21244-1850
Project Officer: Cara Petroski

Submitted by:
Mathematica Policy Research
1100 1st Street, NE
12th Floor
Washington, DC 20002-4221
Telephone: (202) 484-9220
Facsimile: (202) 863-1763
Project Director: Julie Sykes

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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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	702	766	9.12	30% (+/-)	Yes
% billing provider on IP claim	50.3	50.5	0.47	N/A	N/A
% NPI billing provider on IP claim	49.7	49.5	-0.48	N/A	N/A
% also a provider on LT claim	0.7	0.4	-44.94	N/A	N/A
% also a provider on OT claim	76.9	73.0	-5.13	N/A	N/A
% also a provider on RX claim	2.7	2.2	-18.03	N/A	N/A
% provider IDs with NPI	99.9	99.6	-0.25	30% (+/-)	Yes
% provider IDs linked to NPPES	99.9	99.6	-0.25	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of IP claims	467.1	445.6	-4.61	30% (+/-)	Yes
average number of beneficiaries with IP claims	348.7	362.2	3.87	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	701	763	8.84	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	701	763	8.84	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	31.5	29.0	-8.12	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	100.0	100.0	0.00	30% (+/-)	Yes
% with provider entity type = individual	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	701	763	8.84	30% (+/-)	Yes
% individual or group of individuals	0.3	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 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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.7	100.0	0.29	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.9	0.0	-100.00	30% (+/-)	Yes
% hospital units	0.9	0.0	-100.00	30% (+/-)	Yes
% hospitals	97.3	100.0	2.79	30% (+/-)	Yes
% laboratories	0.3	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.4	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	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	701	763	8.84	30% (+/-)	Yes
% organization is a subpart	9.3	8.8	-5.30	30% (+/-)	Yes
% organization is not a subpart	77.6	84.1	8.43	30% (+/-)	Yes
% not answered	13.1	7.1	-46.08	N/A	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	756	775	2.51	30% (+/-)	Yes
% billing provider on LT claim	50.4	51.2	1.64	N/A	N/A
% NPI billing provider on LT claim	49.6	48.8	-1.67	N/A	N/A
% also a provider on IP claim	0.7	0.4	-41.45	N/A	N/A
% also a provider on OT claim	5.0	3.5	-30.68	N/A	N/A
% also a provider on RX claim	0.1	0.1	-2.27	N/A	N/A
% provider IDs with NPI	100.0	99.9	-0.13	30% (+/-)	Yes
% provider IDs linked to NPPES	100.0	99.9	-0.13	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	970.8	1,019.3	4.99	30% (+/-)	Yes
average number of beneficiaries with LT claims	89.2	137.2	53.76	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	756	774	2.38	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	756	774	2.38	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.7	-0.26	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.26	30% (+/-)	Yes
% with city	100.0	99.7	-0.26	30% (+/-)	Yes
% with state	100.0	99.7	-0.26	30% (+/-)	Yes
% state = LT state code	99.5	99.1	-0.38	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.26	30% (+/-)	Yes
% with primary taxonomy	100.0	99.2	-0.78	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.7	-0.26	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	756	768	1.59	30% (+/-)	Yes
% individual or group of individuals	0.3	0.4	47.55	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.3	0.4	47.55	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 LT Billing Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.7	99.6	-0.13	30% (+/-)	Yes
% agencies	0.3	0.3	-1.89	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	13.0	13.9	7.48	30% (+/-)	Yes
% hospitals	6.7	5.1	-24.73	30% (+/-)	Yes
% laboratories	0.0	0.3	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	73.5	74.2	0.92	30% (+/-)	Yes
% residential treatment facilities	6.0	5.6	-5.93	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.3	0.3	-1.89	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	756	772	2.12	30% (+/-)	Yes
% organization is a subpart	20.1	20.6	2.44	30% (+/-)	Yes
% organization is not a subpart	60.7	62.0	2.20	30% (+/-)	Yes
% not answered	19.2	17.4	-9.50	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 OT Servicing Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	54,579	56,341	3.23	30% (+/-)	Yes
% billing provider on OT claim	26.4	24.7	-6.67	N/A	N/A
% servicing provider on OT claim	78.4	78.6	0.15	N/A	N/A
% NPI servicing provider on OT claim	45.3	46.8	3.30	N/A	N/A
% also a provider on IP claim	0.8	0.4	-51.32	N/A	N/A
% also a provider on LT claim	0.1	0.0	-39.06	N/A	N/A
% also a provider on RX claim	26.1	25.9	-0.76	N/A	N/A
% provider IDs with NPI	89.7	90.3	0.71	30% (+/-)	Yes
% provider IDs linked to NPPES	89.5	90.3	0.97	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 OT claims	1,353.9	1,261.8	-6.81	30% (+/-)	Yes
average number of beneficiaries with OT claims	241.4	282.4	16.98	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	48,949	50,887	3.96	30% (+/-)	Yes
% NPI source = MSIS	99.3	99.6	0.25	30% (+/-)	Yes
% NPI source = NPPES	0.7	0.4	-36.42	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	48,821	50,887	4.23	30% (+/-)	Yes
% linked via NPI	99.3	99.6	0.25	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.4	0.4	-13.42	30% (+/-)	Yes
% linked via Medicare UPIN	0.2	0.0	-82.67	30% (+/-)	Yes
% with name prefix	32.1	33.8	5.32	30% (+/-)	Yes
% with first name	79.6	81.7	2.60	30% (+/-)	Yes
% with middle name	61.8	63.9	3.39	30% (+/-)	Yes
% with last name	79.6	81.7	2.60	30% (+/-)	Yes
% with name suffix	3.1	3.2	3.57	30% (+/-)	Yes
% male	53.6	53.5	-0.11	30% (+/-)	Yes
% female	26.0	28.1	8.20	30% (+/-)	Yes
% with credential	78.6	80.6	2.56	30% (+/-)	Yes
% with business name	20.4	17.8	-12.56	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.49	30% (+/-)	Yes
% with city	100.0	99.5	-0.49	30% (+/-)	Yes
% with state	100.0	99.5	-0.49	30% (+/-)	Yes
% state = OT state code	64.4	63.2	-1.84	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.49	30% (+/-)	Yes
% with primary taxonomy	99.9	98.6	-1.29	30% (+/-)	Yes
% with provider entity type = individual	79.6	81.7	2.60	30% (+/-)	Yes
% with provider entity type = organization	20.4	17.8	-12.56	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	48,874	50,161	2.63	30% (+/-)	Yes
% individual or group of individuals	82.9	84.9	2.52	30% (+/-)	Yes
% allopathic and osteopathic physicians	58.0	60.0	3.52	30% (+/-)	Yes

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.5	0.4	-20.41	30% (+/-)	Yes
% chiropractic providers	1.8	1.8	3.28	30% (+/-)	Yes
% dental providers	4.1	4.6	13.22	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.1	0.0	-59.29	30% (+/-)	Yes
% eye and vision service providers	2.0	2.0	3.17	30% (+/-)	Yes
% nursing service providers	0.3	0.1	-67.19	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-25.00	30% (+/-)	Yes
% other service providers	2.6	1.4	-44.49	30% (+/-)	Yes
% pharmacy service providers	0.1	0.0	-53.66	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	11.0	12.6	13.96	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.7	7.81	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.6	0.6	7.31	30% (+/-)	Yes
% speech, language, and hearing service providers	0.2	0.2	30.81	30% (+/-)	Yes
% student health care	0.6	0.3	-49.19	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	25.71	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.5	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	17.2	15.1	-12.19	30% (+/-)	Yes
% agencies	4.2	4.3	3.79	30% (+/-)	Yes
% ambulatory health care facilities	1.5	1.3	-12.97	30% (+/-)	Yes
% hospital units	0.0	0.0	-42.22	30% (+/-)	Yes
% hospitals	1.5	0.8	-46.42	30% (+/-)	Yes
% laboratories	0.6	0.7	13.08	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-50.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.1	-21.43	30% (+/-)	Yes
% residential treatment facilities	0.3	0.2	-2.00	30% (+/-)	Yes
% respite care facility	0.0	0.0	2.70	30% (+/-)	Yes
% suppliers	7.7	6.3	-17.87	30% (+/-)	Yes
% transportation services	1.2	1.2	-1.24	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	38,859	41,557	6.94	30% (+/-)	Yes
% a sole proprietorship	14.1	14.3	1.08	30% (+/-)	Yes
% not a sole proprietorship	78.4	81.2	3.61	30% (+/-)	Yes
% not answered	7.5	4.5	-39.87	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	9,962	9,080	-8.85	30% (+/-)	Yes
% organization is a subpart	10.8	11.6	7.07	30% (+/-)	Yes
% organization is not a subpart	71.4	73.9	3.54	30% (+/-)	Yes
% not answered	17.8	14.5	-18.48	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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	17,889	18,680	4.42	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	80.6	74.4	-7.74	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	1.8	1.9	7.02	N/A	N/A
% also a provider on LT claim	0.0	0.0	-30.77	N/A	N/A
% also a provider on RX claim	43.7	41.4	-5.32	N/A	N/A
% provider IDs with NPI	87.7	85.5	-2.50	30% (+/-)	Yes
% provider IDs linked to NPPES	87.5	85.5	-2.25	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	2,836.4	2,836.3	0.00	30% (+/-)	Yes
average number of beneficiaries with OT claims	457.5	589.5	28.86	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	15,694	15,978	1.81	30% (+/-)	Yes
% NPI source = MSIS	90.0	89.2	-0.85	30% (+/-)	Yes
% NPI source = NPPES	10.0	10.8	7.66	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	15,653	15,978	2.08	30% (+/-)	Yes
% linked via NPI	90.0	89.2	-0.82	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	10.0	10.8	7.38	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	25.9	26.9	3.61	30% (+/-)	Yes
% with first name	57.6	58.1	0.90	30% (+/-)	Yes
% with middle name	46.9	47.9	2.12	30% (+/-)	Yes
% with last name	57.6	58.1	0.90	30% (+/-)	Yes
% with name suffix	2.6	2.5	-1.05	30% (+/-)	Yes
% male	40.4	39.6	-2.19	30% (+/-)	Yes
% female	17.1	18.5	8.20	30% (+/-)	Yes
% with credential	56.9	57.3	0.77	30% (+/-)	Yes
% with business name	42.4	41.5	-2.31	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.46	30% (+/-)	Yes
% with city	100.0	99.5	-0.46	30% (+/-)	Yes
% with state	100.0	99.5	-0.46	30% (+/-)	Yes
% state = OT state code	80.6	80.6	0.02	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.46	30% (+/-)	Yes
% with primary taxonomy	99.8	98.5	-1.27	30% (+/-)	Yes
% with provider entity type = individual	57.6	58.1	0.90	30% (+/-)	Yes
% with provider entity type = organization	42.4	41.5	-2.31	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	15,658	15,738	0.51	30% (+/-)	Yes
% individual or group of individuals	69.2	69.7	0.82	30% (+/-)	Yes
% allopathic and osteopathic physicians	46.2	46.5	0.55	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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.5	0.4	-33.33	30% (+/-)	Yes
% chiropractic providers	2.5	2.6	2.51	30% (+/-)	Yes
% dental providers	5.4	6.5	21.24	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.1	0.1	-55.65	30% (+/-)	Yes
% eye and vision service providers	2.5	2.6	0.75	30% (+/-)	Yes
% nursing service providers	0.2	0.1	-65.66	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	0.00	30% (+/-)	Yes
% other service providers	2.8	1.9	-31.20	30% (+/-)	Yes
% pharmacy service providers	0.1	0.1	-56.46	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	6.0	7.0	16.71	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.8	1.0	17.56	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.7	0.7	3.98	30% (+/-)	Yes
% speech, language, and hearing service providers	0.2	0.3	15.68	30% (+/-)	Yes
% student health care	0.1	0.1	-9.93	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	33.33	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	30.8	30.3	-1.85	30% (+/-)	Yes
% agencies	7.1	8.0	12.22	30% (+/-)	Yes
% ambulatory health care facilities	3.2	2.8	-12.36	30% (+/-)	Yes
% hospital units	0.1	0.1	-31.33	30% (+/-)	Yes
% hospitals	3.0	2.7	-12.83	30% (+/-)	Yes
% laboratories	1.0	1.2	15.66	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-21.88	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.1	0.00	30% (+/-)	Yes
% residential treatment facilities	0.4	0.4	2.44	30% (+/-)	Yes
% respite care facility	0.1	0.1	0.00	30% (+/-)	Yes
% suppliers	13.5	12.7	-6.04	30% (+/-)	Yes
% transportation services	2.2	2.2	1.54	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	9,010	9,280	3.00	30% (+/-)	Yes
% a sole proprietorship	20.6	21.5	4.31	30% (+/-)	Yes
% not a sole proprietorship	72.1	74.1	2.68	30% (+/-)	Yes
% not answered	7.3	4.4	-38.83	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	6,643	6,624	-0.29	30% (+/-)	Yes
% organization is a subpart	10.6	12.7	19.51	30% (+/-)	Yes
% organization is not a subpart	73.0	75.2	2.91	30% (+/-)	Yes
% not answered	16.4	12.2	-25.64	N/A	N/A

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

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2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	2,658	2,731	2.75	30% (+/-)	Yes
% billing provider on RX claim	50.8	51.0	0.43	N/A	N/A
% prescribing provider on RX claim	19.1	1.9	-90.23	N/A	N/A
% NPI billing provider on RX claim	49.2	49.0	-0.44	N/A	N/A
% also a provider on IP claim	0.0	0.0	-2.63	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	57.2	53.4	-6.71	N/A	N/A
% provider IDs with NPI	99.0	99.2	0.21	30% (+/-)	Yes
% provider IDs linked to NPPES	98.5	99.2	0.75	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	8,892.7	9,864.0	10.92	30% (+/-)	Yes
average number of beneficiaries with RX claims	838.0	1,146.4	36.79	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	2,632	2,710	2.96	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	-2.63	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	2,618	2,710	3.51	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	-2.63	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.7	0.8	6.75	30% (+/-)	Yes
% with first name	1.4	1.5	7.08	30% (+/-)	Yes
% with middle name	1.2	1.3	9.12	30% (+/-)	Yes
% with last name	1.4	1.5	7.08	30% (+/-)	Yes
% with name suffix	0.1	0.1	-2.63	30% (+/-)	Yes
% male	1.0	1.1	10.96	30% (+/-)	Yes
% female	0.4	0.4	-3.40	30% (+/-)	Yes
% with credential	1.4	1.5	7.08	30% (+/-)	Yes
% with business name	98.6	97.6	-0.96	30% (+/-)	Yes
% with address line 1	100.0	99.2	-0.85	30% (+/-)	Yes
% with city	100.0	99.2	-0.85	30% (+/-)	Yes
% with state	100.0	99.2	-0.85	30% (+/-)	Yes
% state = RX state code	86.1	84.2	-2.19	30% (+/-)	Yes
% with zip code	100.0	99.2	-0.85	30% (+/-)	Yes
% with primary taxonomy	99.4	97.5	-1.83	30% (+/-)	Yes
% with provider entity type = individual	1.4	1.5	7.08	30% (+/-)	Yes
% with provider entity type = organization	98.6	97.6	-0.96	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	2,609	2,643	1.30	30% (+/-)	Yes
% individual or group of individuals	5.5	3.4	-37.18	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.1	1.3	15.65	30% (+/-)	Yes

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.1	0.1	-1.30	30% (+/-)	Yes
% chiropractic providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% dental providers	0.2	0.2	-1.31	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.1	Div by 0	30% (+/-)	N/A
% pharmacy service providers	3.8	1.6	-57.13	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.2	0.2	-1.31	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.1	0.0	-100.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	94.5	96.6	2.16	30% (+/-)	Yes
% agencies	0.4	0.3	-28.20	30% (+/-)	Yes
% ambulatory health care facilities	0.2	0.2	-34.35	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.5	0.4	-24.10	30% (+/-)	Yes
% laboratories	0.1	0.1	-1.30	30% (+/-)	Yes
% managed care organizations	0.0	0.0	-100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.1	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.2	0.1	-50.33	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	93.0	95.4	2.62	30% (+/-)	Yes
% transportation services	0.1	0.1	-33.91	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	37	41	10.81	30% (+/-)	Yes
% a sole proprietorship	21.6	14.6	-32.32	30% (+/-)	No
% not a sole proprietorship	78.4	85.4	8.92	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	2,581	2,646	2.52	30% (+/-)	Yes
% organization is a subpart	19.0	19.2	1.33	30% (+/-)	Yes
% organization is not a subpart	72.4	74.8	3.28	30% (+/-)	Yes
% not answered	8.6	6.0	-30.58	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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	15,426	16,628	7.79	30% (+/-)	Yes
% billing provider on RX claim	3.3	0.3	-90.68	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.1	0.1	-17.95	N/A	N/A
% also a provider on LT claim	0.0	0.0	0.00	N/A	N/A
% also a provider on OT claim	85.3	82.8	-2.98	N/A	N/A
% provider IDs with NPI	90.7	87.6	-3.44	30% (+/-)	Yes
% provider IDs linked to NPPES	90.5	87.6	-3.17	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	1,123.2	806.3	-28.22	30% (+/-)	Yes
average number of beneficiaries with RX claims	154.9	148.4	-4.22	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	13,997	14,569	4.09	30% (+/-)	Yes
% NPI source = MSIS	94.7	93.9	-0.84	30% (+/-)	Yes
% NPI source = NPPES	5.3	6.1	14.98	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	13,959	14,569	4.37	30% (+/-)	Yes
% linked via NPI	94.7	93.9	-0.82	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	5.3	6.1	14.65	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	37.7	40.8	8.21	30% (+/-)	Yes
% with first name	92.0	97.4	5.95	30% (+/-)	Yes
% with middle name	72.5	77.4	6.77	30% (+/-)	Yes
% with last name	92.0	97.4	5.95	30% (+/-)	Yes
% with name suffix	3.6	3.9	7.77	30% (+/-)	Yes
% male	61.6	62.9	2.15	30% (+/-)	Yes
% female	30.4	34.5	13.66	30% (+/-)	Yes
% with credential	90.9	96.3	5.96	30% (+/-)	Yes
% with business name	8.0	2.1	-73.23	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.41	30% (+/-)	Yes
% with city	100.0	99.6	-0.41	30% (+/-)	Yes
% with state	100.0	99.6	-0.41	30% (+/-)	Yes
% state = RX state code	74.9	71.0	-5.24	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.41	30% (+/-)	Yes
% with primary taxonomy	99.9	98.9	-1.00	30% (+/-)	Yes
% with provider entity type = individual	92.0	97.4	5.95	30% (+/-)	Yes
% with provider entity type = organization	8.0	2.1	-73.23	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	13,976	14,403	3.06	30% (+/-)	Yes
% individual or group of individuals	93.4	98.9	5.85	30% (+/-)	Yes
% allopathic and osteopathic physicians	68.0	71.7	5.36	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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.2	0.1	-62.67	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	15.28	30% (+/-)	Yes
% dental providers	6.2	6.8	9.41	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.1	0.0	-62.02	30% (+/-)	Yes
% eye and vision service providers	2.8	2.9	4.96	30% (+/-)	Yes
% nursing service providers	0.3	0.1	-67.74	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-100.00	30% (+/-)	Yes
% other service providers	2.7	1.7	-39.20	30% (+/-)	Yes
% pharmacy service providers	0.2	0.0	-95.54	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	11.3	14.3	26.96	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	2.66	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.0	-58.00	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	200.00	30% (+/-)	Yes
% student health care	0.4	0.2	-49.05	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	0.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	6.6	1.1	-82.93	30% (+/-)	Yes
% agencies	0.1	0.0	-80.56	30% (+/-)	Yes
% ambulatory health care facilities	0.3	0.2	-33.79	30% (+/-)	Yes
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	0.2	0.2	4.47	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	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	6.0	0.7	-88.57	30% (+/-)	Yes
% transportation services	0.0	0.0	-50.00	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	12,839	14,197	10.58	30% (+/-)	Yes
% a sole proprietorship	15.1	15.1	-0.13	30% (+/-)	Yes
% not a sole proprietorship	78.4	81.3	3.61	30% (+/-)	Yes
% not answered	6.5	3.7	-43.29	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,120	313	-72.05	30% (+/-)	No
% organization is a subpart	19.6	16.3	-16.67	30% (+/-)	Yes
% organization is not a subpart	72.0	71.2	-1.00	30% (+/-)	Yes
% not answered	8.5	12.5	46.90	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: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	62,090	66,201	6.62	30%(+/-)	Yes
% billing provider on IP claim	0.6	0.6	2.81	N/A	N/A
% NPI billing provider on IP claim	0.6	0.6	1.78	N/A	N/A
% billing provider on LT claim	0.6	0.6	-2.28	N/A	N/A
% NPI billing provider on LT claim	0.6	0.6	-5.46	N/A	N/A
% billing provider on OT claim	28.8	28.2	-2.06	N/A	N/A
% servicing provider on OT claim	68.9	66.9	-3.03	N/A	N/A
% NPI servicing provider on OT claim	39.8	39.8	0.01	N/A	N/A
% billing provider on RX claim	2.2	2.1	-3.22	N/A	N/A
% prescribing provider on RX claim	24.8	25.1	1.09	N/A	N/A
% NPI billing provider on RX claim	2.1	2.0	-4.03	N/A	N/A
% billing provider	30.8	30.2	-1.80	N/A	N/A
% NPI billing provider	3.3	3.2	-3.25	N/A	N/A
% servicing provider	68.9	66.9	-3.03	N/A	N/A
% NPI servicing provider	39.8	39.8	0.01	N/A	N/A
% prescribing provider	24.8	25.1	1.09	N/A	N/A
% provider IDs with NPI	85.6	85.0	-0.65	30%(+/-)	Yes
% provider IDs linked to NPPES	85.4	85.0	-0.40	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	2,039.2	1,989.6	-2.43	30%(+/-)	Yes
average number of beneficiaries with claims	296.9	366.9	23.59	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	53,141	56,291	5.93	30%(+/-)	Yes
% NPI source = MSIS	95.5	95.4	-0.09	30%(+/-)	Yes
% NPI source = NPPES	4.5	4.6	1.83	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	53,008	56,291	6.19	30%(+/-)	Yes
% linked via NPI	95.4	95.4	-0.08	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	4.3	4.6	5.61	30%(+/-)	Yes
% linked via Medicare UPIN	0.2	0.0	-82.69	30%(+/-)	Yes
% with name prefix	30.0	31.1	3.64	30%(+/-)	Yes
% with first name	74.6	75.4	1.03	30%(+/-)	Yes
% with middle name	58.0	59.0	1.78	30%(+/-)	Yes
% with last name	74.6	75.4	1.03	30%(+/-)	Yes
% with name suffix	2.9	3.0	2.49	30%(+/-)	Yes
% male	50.1	49.3	-1.67	30%(+/-)	Yes
% female	24.5	26.1	6.53	30%(+/-)	Yes
% with credential	73.7	74.4	0.99	30%(+/-)	Yes
% with business name	25.4	24.2	-4.87	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 = claim file state code	65.6	64.5	-1.69	30%(+/-)	Yes
% with zip code	100.0	99.5	-0.47	30%(+/-)	Yes

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

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2009-2010 MAX All Provider Characteristics Validation Table

State: KY

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.8	98.6	-1.24	30%(+/-)	Yes
% with provider entity type = individual	74.6	75.4	1.03	30%(+/-)	Yes
% with provider entity type = organization	25.4	24.2	-4.87	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	53,030	55,486	4.63	30%(+/-)	Yes
% individual or group of individuals	79.8	80.5	0.87	30%(+/-)	Yes
% allopathic and osteopathic physicians	55.6	56.7	2.02	30%(+/-)	Yes
% behavioral health and social service providers	0.5	0.4	-21.41	30%(+/-)	Yes
% chiropractic providers	1.7	1.7	1.58	30%(+/-)	Yes
% dental providers	3.9	4.3	9.78	30%(+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% emergency medical service providers	0.1	0.0	-59.46	30%(+/-)	Yes
% eye and vision service providers	1.9	2.0	1.80	30%(+/-)	Yes
% nursing service providers	0.2	0.1	-67.22	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	-37.50	30%(+/-)	Yes
% other service providers	2.5	1.4	-43.15	30%(+/-)	Yes
% pharmacy service providers	0.2	0.1	-53.47	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	10.7	12.0	12.21	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.6	0.6	5.20	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.6	0.6	1.99	30%(+/-)	Yes
% speech, language, and hearing service providers	0.2	0.2	27.44	30%(+/-)	Yes
% student health care	0.5	0.3	-49.12	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	13.89	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.5	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	20.2	19.5	-3.45	30%(+/-)	Yes
% agencies	4.1	4.2	2.00	30%(+/-)	Yes
% ambulatory health care facilities	1.7	1.5	-9.77	30%(+/-)	Yes
% hospital units	0.2	0.2	-6.58	30%(+/-)	Yes
% hospitals	2.0	1.9	-8.59	30%(+/-)	Yes
% laboratories	0.6	0.7	10.83	30%(+/-)	Yes
% managed care organizations	0.0	0.0	-23.53	30%(+/-)	Yes
% nursing and custodial care facilities	1.1	1.1	-1.28	30%(+/-)	Yes
% residential treatment facilities	0.3	0.3	-5.90	30%(+/-)	Yes
% respite care facility	0.0	0.0	0.00	30%(+/-)	Yes
% suppliers	9.0	8.6	-4.62	30%(+/-)	Yes
% transportation services	1.1	1.1	-3.47	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	39,550	42,430	7.28	30%(+/-)	Yes
% a sole proprietorship	14.1	14.2	0.79	30%(+/-)	Yes
% not a sole proprietorship	78.4	81.3	3.64	30%(+/-)	Yes
% not answered	7.5	4.5	-39.66	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	13,458	13,596	1.03	30%(+/-)	Yes
% organization is a subpart	11.5	12.5	9.19	30%(+/-)	Yes
% organization is not a subpart	71.2	74.3	4.23	30%(+/-)	Yes
% not answered	17.3	13.2	-23.51	N/A	N/A

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

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