

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

**State-Specific Validation Tables,
2010**

Texas

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

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ACRONYMS

CMS	Centers for Medicare & Medicaid Services
CY	Calendar year
FY	Federal fiscal year
HIPAA	Health Insurance Portability and Accountability Act
ID	Identification/identifier
IP	Inpatient
LT	Long-term care
MAX	Medicaid Analytic Extract
MAXPC	MAX Provider Characteristics File
MSIS	Medicaid Statistical Information System
NPI	National Provider Identifier
NPPES	National Plan and Provider Enumeration System
OT	Other services
RX	Drug
UPIN	Unique Physician Identification Number

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INTRODUCTION

The Medicaid Statistical Information System (MSIS) files and the corresponding research-friendly Medicaid Analytic Extract (MAX) files support a wide range of studies on Medicaid enrollment, service use, and expenditures. There is currently considerable interest at the Centers for Medicare & Medicaid Services (CMS) in also examining health reform proposals, program integrity, and access-to-care issues among certain types of Medicaid providers. However, it has not been possible to easily conduct provider-based research activities because the provider identification numbers collected in MSIS are largely unedited, undocumented, and state specific.

The advent of the Health Insurance Portability and Accountability Act (HIPAA) mandated covered entities such as health care providers, health plans, and health care clearinghouses to obtain and use a National Provider Identifier (NPI) in all administrative and financial HIPAA transactions.¹ The NPI is a unique 10-digit, sequentially assigned national identification number, unstructured so as not to carry any way information such as the state or medical specialty of the health care provider who “owns” the identifier. Beginning in February 2009, states were required to include NPIs on claims submitted to MSIS. The main limitation of this identifier, however, is that certain classes of nonmedical providers are not required to obtain an NPI. Nonetheless, the availability of the NPI on MSIS claims makes the development of a uniform provider characteristic file more feasible. The MAX Provider Characteristics (MAXPC) file is such a file.

Once the state’s MAXPC file is created, validation tables are produced. Validation tables are designed as a diagnostic tool to determine whether linkages are working in the expected manner and consist of a set of seven tables. The first six tables focus on provider ID types in the IP, LT, OT, and RX files. These provider types are: IP billing, LT billing, OT servicing, OT billing, RX billing, and RX prescribing provider IDs. The seventh table examines all provider IDs in all of the files. Each file-specific validation table is used to detect linkage issues that are peculiar to a given file type. The all-provider table is used to monitor the overall quality of the linkages of all provider IDs. The design of the validation tables is very similar across file types. The measures are grouped into seven sections as denoted by the shaded rows. The first section describes measures for each unique provider in the file. The second section focuses on the source of NPIs. The third section focuses on provider IDs that link to NPPES, followed by a section for provider IDs that link to state provider files. The fifth section focuses on the primary taxonomy of providers that link to NPPES. Among providers, taxonomies are classified into two groups: (1) individuals or groups of individuals, and (2) nonindividuals. The sixth section focuses on individual providers showing their sole proprietorship status. Finally, the seventh section focuses on provider organizations and their ownership status.

The columns in the state-specific tables describe the annual statistics for up to three years, followed by a column describing the percentage change between year one and year two, the

¹ CMS. “National Provider Identifier (NPI) Overview.” Available at <http://www.cms.gov/nationalProvIdentstand/>.

percentage change between year two and year three, if applicable, followed by the expected range of values across years, and finally, an indicator showing whether the percentage change between the two most recent years being compared is within the expected range.

The primary source of data used in the MAXPC 2010 files were the MSIS Valid claims files. The following measures in the MAXPC file were derived from original, unadjusted claims:

- Number of IP Claims for Provider
- Number of Beneficiaries with IP Claims for Provider
- Number of LT Claims for Provider
- Number of Beneficiaries with LT Claims for Provider
- Number of OT Claims for Provider
- Number of Beneficiaries with OT Claims for Provider
- Number of RX Claims for provider
- Number of Beneficiaries with RX Claims for Provider.

2009-2010 MAX IP Billing Provider Characteristics Validation Table

State: TX

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	1,130	886	-21.59	30% (+/-)	Yes
% billing provider on IP claim	79.6	99.8	25.41	N/A	N/A
% NPI billing provider on IP claim	75.2	90.4	20.19	N/A	N/A
% also a provider on LT claim	13.5	2.0	-84.99	N/A	N/A
% also a provider on OT claim	72.2	91.8	27.07	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	75.3	90.5	20.20	30% (+/-)	Yes
% provider IDs linked to NPPES	54.8	90.4	65.04	30% (+/-)	No
% 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	861.4	1,102.9	28.04	30% (+/-)	Yes
average number of beneficiaries with IP claims	691.6	836.2	20.90	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	851	802	-5.76	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	619	801	29.40	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	1.0	1.5	54.59	30% (+/-)	Yes
% with first name	3.6	2.5	-29.74	30% (+/-)	Yes
% with middle name	3.1	1.9	-38.97	30% (+/-)	Yes
% with last name	3.6	2.5	-29.74	30% (+/-)	Yes
% with name suffix	0.2	0.0	-100.00	30% (+/-)	Yes
% male	2.3	1.1	-50.31	30% (+/-)	Yes
% female	1.3	1.4	6.27	30% (+/-)	Yes
% with credential	3.4	2.5	-26.41	30% (+/-)	Yes
% with business name	96.4	97.1	0.71	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 = IP state code	63.5	71.3	12.28	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.38	30% (+/-)	Yes
% with primary taxonomy	99.5	98.9	-0.64	30% (+/-)	Yes
% with provider entity type = individual	3.6	2.5	-29.74	30% (+/-)	Yes
% with provider entity type = organization	96.4	97.1	0.71	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	622	792	27.33	30% (+/-)	Yes
% individual or group of individuals	5.3	3.7	-30.97	30% (+/-)	Yes
% allopathic and osteopathic physicians	3.5	2.3	-35.74	30% (+/-)	Yes
% behavioral health and social service providers	0.2	0.0	-100.00	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 IP Billing Provider Characteristics Validation Table

State: TX

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	0.1	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	0.2	0.0	-100.00	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.5	1.0	109.54	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	0.1	Div by 0	30% (+/-)	N/A
% student health care	0.2	0.1	-21.74	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.8	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	94.7	96.3	1.74	30% (+/-)	Yes
% agencies	2.4	0.8	-68.57	30% (+/-)	Yes
% ambulatory health care facilities	4.2	4.7	11.77	30% (+/-)	Yes
% hospital units	3.2	3.2	-1.80	30% (+/-)	Yes
% hospitals	81.0	86.7	7.05	30% (+/-)	Yes
% laboratories	0.0	0.1	Div by 0	30% (+/-)	N/A
% managed care organizations	2.3	0.0	-100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.3	0.0	-100.00	30% (+/-)	Yes
% residential treatment facilities	0.3	0.3	-21.43	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.2	0.3	57.14	30% (+/-)	Yes
% transportation services	0.8	0.4	-52.86	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	22	20	-9.09	30% (+/-)	Yes
% a sole proprietorship	31.8	25.0	-21.43	30% (+/-)	Yes
% not a sole proprietorship	45.5	70.0	54.00	30% (+/-)	No
% not answered	22.7	5.0	-78.00	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	597	778	30.32	30% (+/-)	No
% organization is a subpart	7.7	9.1	18.44	30% (+/-)	Yes
% organization is not a subpart	79.2	79.7	0.58	30% (+/-)	Yes
% not answered	13.1	11.2	-14.40	N/A	N/A

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

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table

State: TX

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	2,081	1,930	-7.26	30% (+/-)	Yes
% billing provider on LT claim	99.4	99.6	0.22	N/A	N/A
% NPI billing provider on LT claim	95.3	99.1	4.02	N/A	N/A
% also a provider on IP claim	7.4	0.9	-87.31	N/A	N/A
% also a provider on OT claim	53.1	51.7	-2.53	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	95.3	99.4	4.29	30% (+/-)	Yes
% provider IDs linked to NPPES	94.6	98.8	4.48	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	1,682.5	1,818.4	8.08	30% (+/-)	Yes
average number of beneficiaries with LT claims	68.9	70.0	1.53	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,983	1,918	-3.28	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,968	1,907	-3.10	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	0.1	0.0	-100.00	30% (+/-)	Yes
% with first name	0.1	0.1	-49.02	30% (+/-)	Yes
% with middle name	0.1	0.0	-100.00	30% (+/-)	Yes
% with last name	0.1	0.1	-49.02	30% (+/-)	Yes
% 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	0.1	0.1	-49.02	30% (+/-)	Yes
% with credential	0.1	0.0	-100.00	30% (+/-)	Yes
% with business name	99.9	99.9	0.05	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = LT state code	99.5	99.7	0.20	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	98.5	98.5	-0.05	30% (+/-)	Yes
% with provider entity type = individual	0.1	0.1	-49.02	30% (+/-)	Yes
% with provider entity type = organization	99.9	99.9	0.05	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	1,945	1,878	-3.44	30% (+/-)	Yes
% individual or group of individuals	0.2	0.2	3.90	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.1	0.1	107.84	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 LT Billing Provider Characteristics Validation Table

State: TX

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	0.1	0.1	-48.54	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.8	99.8	-0.01	30% (+/-)	Yes
% agencies	1.0	1.5	45.04	30% (+/-)	Yes
% ambulatory health care facilities	0.2	0.1	-48.54	30% (+/-)	Yes
% hospital units	1.3	1.4	3.52	30% (+/-)	Yes
% hospitals	5.7	2.7	-52.41	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.1	0.1	3.92	30% (+/-)	Yes
% nursing and custodial care facilities	84.4	87.1	3.25	30% (+/-)	Yes
% residential treatment facilities	6.8	7.0	2.02	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.3	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	2	1	-50.00	30% (+/-)	Yes
% a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	1,966	1,906	-3.05	30% (+/-)	Yes
% organization is a subpart	3.8	4.4	14.15	30% (+/-)	Yes
% organization is not a subpart	62.8	64.3	2.40	30% (+/-)	Yes
% not answered	33.4	31.3	-6.13	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: TX

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	111,328	112,155	0.74	30% (+/-)	Yes
% billing provider on OT claim	65.9	74.4	12.99	N/A	N/A
% servicing provider on OT claim	84.7	93.0	9.85	N/A	N/A
% NPI servicing provider on OT claim	74.6	70.2	-5.88	N/A	N/A
% also a provider on IP claim	0.7	0.7	-1.30	N/A	N/A
% also a provider on LT claim	1.0	0.9	-10.43	N/A	N/A
% also a provider on RX claim	1.3	1.6	25.02	N/A	N/A
% provider IDs with NPI	79.1	75.1	-5.05	30% (+/-)	Yes
% provider IDs linked to NPPES	69.2	74.1	7.06	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	2,441.9	2,193.2	-10.18	30% (+/-)	Yes
average number of beneficiaries with OT claims	323.1	322.1	-0.30	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	88,082	84,257	-4.34	30% (+/-)	Yes
% NPI source = MSIS	99.9	99.9	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.1	0.1	0.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	77,086	83,141	7.85	30% (+/-)	Yes
% linked via NPI	99.9	99.9	0.01	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-5.56	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-60.00	30% (+/-)	Yes
% with name prefix	36.1	36.1	0.13	30% (+/-)	Yes
% with first name	78.9	78.5	-0.42	30% (+/-)	Yes
% with middle name	59.7	59.3	-0.60	30% (+/-)	Yes
% with last name	78.9	78.5	-0.42	30% (+/-)	Yes
% with name suffix	3.2	3.1	-3.29	30% (+/-)	Yes
% male	48.6	47.5	-2.39	30% (+/-)	Yes
% female	30.2	31.1	2.74	30% (+/-)	Yes
% with credential	76.5	76.2	-0.41	30% (+/-)	Yes
% with business name	21.1	21.0	-0.85	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.51	30% (+/-)	Yes
% with city	100.0	99.5	-0.51	30% (+/-)	Yes
% with state	100.0	99.5	-0.51	30% (+/-)	Yes
% state = OT state code	94.0	93.1	-0.90	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.51	30% (+/-)	Yes
% with primary taxonomy	99.3	98.1	-1.22	30% (+/-)	Yes
% with provider entity type = individual	78.9	78.5	-0.42	30% (+/-)	Yes
% with provider entity type = organization	21.1	21.0	-0.85	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	77,634	81,577	5.08	30% (+/-)	Yes
% individual or group of individuals	80.4	80.9	0.68	30% (+/-)	Yes
% allopathic and osteopathic physicians	50.0	49.3	-1.43	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: TX

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	6.1	6.1	0.62	30% (+/-)	Yes
% chiropractic providers	0.6	0.6	3.35	30% (+/-)	Yes
% dental providers	4.9	5.3	9.15	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	18.34	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	166.67	30% (+/-)	Yes
% eye and vision service providers	1.6	1.8	16.90	30% (+/-)	Yes
% nursing service providers	0.4	0.2	-45.15	30% (+/-)	Yes
% nursing service-related providers	0.2	0.2	-32.89	30% (+/-)	Yes
% other service providers	1.5	2.4	64.05	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	160.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	8.2	9.9	20.17	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	3.51	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.5	1.8	21.27	30% (+/-)	Yes
% speech, language, and hearing service providers	1.5	1.8	16.16	30% (+/-)	Yes
% student health care	0.2	0.3	66.25	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.1	440.00	30% (+/-)	Yes
% group of individuals with multi- or single specialty	2.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	19.6	19.1	-2.78	30% (+/-)	Yes
% agencies	6.3	6.5	3.63	30% (+/-)	Yes
% ambulatory health care facilities	3.0	2.7	-9.12	30% (+/-)	Yes
% hospital units	0.0	0.0	-10.71	30% (+/-)	Yes
% hospitals	1.0	1.3	20.36	30% (+/-)	Yes
% laboratories	0.6	0.3	-41.59	30% (+/-)	Yes
% managed care organizations	0.1	0.1	-1.08	30% (+/-)	Yes
% nursing and custodial care facilities	2.3	2.2	-2.07	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-14.71	30% (+/-)	Yes
% respite care facility	0.0	0.0	-4.17	30% (+/-)	Yes
% suppliers	4.9	4.6	-6.56	30% (+/-)	Yes
% transportation services	1.3	1.2	-6.64	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	60,798	65,297	7.40	30% (+/-)	Yes
% a sole proprietorship	24.0	24.7	2.54	30% (+/-)	Yes
% not a sole proprietorship	70.3	71.2	1.38	30% (+/-)	Yes
% not answered	5.7	4.1	-27.86	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	16,288	17,419	6.94	30% (+/-)	Yes
% organization is a subpart	8.8	10.8	22.55	30% (+/-)	Yes
% organization is not a subpart	65.2	68.9	5.68	30% (+/-)	Yes
% not answered	26.0	20.3	-21.93	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: TX

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	86,143	98,470	14.31	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	83.0	82.9	-0.16	N/A	N/A
% NPI servicing provider on OT claim	56.7	54.4	-4.12	N/A	N/A
% also a provider on IP claim	0.9	0.8	-12.61	N/A	N/A
% also a provider on LT claim	1.3	1.0	-20.90	N/A	N/A
% also a provider on RX claim	1.7	1.8	10.89	N/A	N/A
% provider IDs with NPI	58.4	56.8	-2.70	30% (+/-)	Yes
% provider IDs linked to NPPES	57.8	56.5	-2.26	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	2,973.5	2,726.0	-8.32	30% (+/-)	Yes
average number of beneficiaries with OT claims	396.7	405.0	2.09	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	50,292	55,937	11.22	30% (+/-)	Yes
% NPI source = MSIS	99.9	99.4	-0.48	30% (+/-)	Yes
% NPI source = NPPES	0.1	0.3	212.90	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.3	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	49,787	55,625	11.73	30% (+/-)	Yes
% linked via NPI	99.9	99.7	-0.20	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.3	234.88	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-37.50	30% (+/-)	Yes
% with name prefix	34.8	34.5	-0.93	30% (+/-)	Yes
% with first name	73.8	73.4	-0.49	30% (+/-)	Yes
% with middle name	55.3	55.1	-0.37	30% (+/-)	Yes
% with last name	73.8	73.4	-0.49	30% (+/-)	Yes
% with name suffix	3.0	2.9	-2.87	30% (+/-)	Yes
% male	45.8	45.0	-1.87	30% (+/-)	Yes
% female	27.9	28.4	1.76	30% (+/-)	Yes
% with credential	71.4	71.1	-0.40	30% (+/-)	Yes
% with business name	26.2	26.1	-0.64	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.53	30% (+/-)	Yes
% with city	100.0	99.5	-0.53	30% (+/-)	Yes
% with state	100.0	99.5	-0.53	30% (+/-)	Yes
% state = OT state code	95.4	94.6	-0.88	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.53	30% (+/-)	Yes
% with primary taxonomy	99.2	97.7	-1.50	30% (+/-)	Yes
% with provider entity type = individual	73.8	73.4	-0.49	30% (+/-)	Yes
% with provider entity type = organization	26.2	26.1	-0.64	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	49,580	54,373	9.67	30% (+/-)	Yes
% individual or group of individuals	76.3	76.7	0.53	30% (+/-)	Yes
% allopathic and osteopathic physicians	47.8	48.3	1.01	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: TX

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	7.4	6.9	-5.52	30% (+/-)	Yes
% chiropractic providers	0.7	0.6	-6.65	30% (+/-)	Yes
% dental providers	5.2	4.7	-10.09	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	-2.61	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	155.56	30% (+/-)	Yes
% eye and vision service providers	1.8	2.0	13.64	30% (+/-)	Yes
% nursing service providers	0.3	0.2	-44.37	30% (+/-)	Yes
% nursing service-related providers	0.2	0.1	-40.11	30% (+/-)	Yes
% other service providers	1.4	2.3	71.65	30% (+/-)	Yes
% pharmacy service providers	0.0	0.1	145.83	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	5.1	5.9	15.87	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	-1.45	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.7	1.9	12.51	30% (+/-)	Yes
% speech, language, and hearing service providers	2.0	2.2	9.74	30% (+/-)	Yes
% student health care	0.1	0.2	44.14	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.1	558.33	30% (+/-)	Yes
% group of individuals with multi- or single specialty	1.5	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	23.7	23.3	-1.71	30% (+/-)	Yes
% agencies	5.8	6.2	6.94	30% (+/-)	Yes
% ambulatory health care facilities	3.8	3.6	-4.62	30% (+/-)	Yes
% hospital units	0.1	0.1	-1.79	30% (+/-)	Yes
% hospitals	1.6	2.0	19.88	30% (+/-)	Yes
% laboratories	0.8	0.5	-35.04	30% (+/-)	Yes
% managed care organizations	0.1	0.1	-3.23	30% (+/-)	Yes
% nursing and custodial care facilities	2.3	2.2	-1.90	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	-9.28	30% (+/-)	Yes
% respite care facility	0.0	0.0	-5.56	30% (+/-)	Yes
% suppliers	7.3	6.7	-7.95	30% (+/-)	Yes
% transportation services	1.8	1.8	-2.38	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	36,731	40,835	11.17	30% (+/-)	Yes
% a sole proprietorship	29.7	29.6	-0.42	30% (+/-)	Yes
% not a sole proprietorship	64.4	66.1	2.55	30% (+/-)	Yes
% not answered	5.9	4.4	-25.69	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	13,056	14,494	11.01	30% (+/-)	Yes
% organization is a subpart	9.8	12.1	23.34	30% (+/-)	Yes
% organization is not a subpart	65.2	68.2	4.69	30% (+/-)	Yes
% not answered	25.0	19.7	-21.36	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: TX

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	8,485	8,744	3.05	30% (+/-)	Yes
% billing provider on RX claim	50.2	50.2	0.09	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	49.8	49.8	-0.09	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	16.9	20.7	22.45	N/A	N/A
% provider IDs with NPI	100.0	99.9	-0.06	30% (+/-)	Yes
% provider IDs linked to NPES	99.7	99.9	0.24	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	7,351.4	7,835.7	6.59	30% (+/-)	Yes
average number of beneficiaries with RX claims	1,108.3	1,137.1	2.60	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	8,484	8,738	2.99	30% (+/-)	Yes
% NPI source = MSIS	100.0	99.9	-0.05	30% (+/-)	Yes
% NPI source = NPES	0.0	0.1	375.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPES					
Number of provider IDs linked to NPES	8,459	8,738	3.30	30% (+/-)	Yes
% linked via NPI	100.0	99.9	-0.05	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.1	375.00	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.3	0.3	0.65	30% (+/-)	Yes
% with first name	0.6	0.6	-1.06	30% (+/-)	Yes
% with middle name	0.5	0.5	-0.85	30% (+/-)	Yes
% with last name	0.6	0.6	-1.06	30% (+/-)	Yes
% with name suffix	0.0	0.0	-2.13	30% (+/-)	Yes
% male	0.5	0.5	-3.22	30% (+/-)	Yes
% female	0.1	0.1	12.68	30% (+/-)	Yes
% with credential	0.4	0.4	-0.70	30% (+/-)	Yes
% with business name	99.4	99.1	-0.39	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.39	30% (+/-)	Yes
% with city	100.0	99.6	-0.39	30% (+/-)	Yes
% with state	100.0	99.6	-0.39	30% (+/-)	Yes
% state = RX state code	98.8	98.6	-0.25	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.39	30% (+/-)	Yes
% with primary taxonomy	99.9	98.3	-1.57	30% (+/-)	Yes
% with provider entity type = individual	0.6	0.6	-1.06	30% (+/-)	Yes
% with provider entity type = organization	99.4	99.1	-0.39	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPES Primary Taxonomy					
Number of provider IDs with NPES primary taxonomy	8,471	8,591	1.42	30% (+/-)	Yes
% individual or group of individuals	0.1	2.7	1,777.46	30% (+/-)	Yes
% allopathic and osteopathic physicians	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 RX Billing Provider Characteristics Validation Table

State: TX

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	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.1	2.6	1,728.17	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.9	97.3	-2.53	30% (+/-)	Yes
% agencies	0.1	0.2	112.68	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.2	1,258.33	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.0	0.1	Div by 0	30% (+/-)	N/A
% laboratories	0.0	0.1	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.1	675.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	99.8	96.7	-3.05	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	48	49	2.08	30% (+/-)	Yes
% a sole proprietorship	87.5	87.8	0.29	30% (+/-)	Yes
% not a sole proprietorship	8.3	8.2	-2.04	30% (+/-)	Yes
% not answered	4.2	4.1	-2.04	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	8,411	8,655	2.90	30% (+/-)	Yes
% organization is a subpart	31.2	30.8	-1.15	30% (+/-)	Yes
% organization is not a subpart	61.6	63.5	3.13	30% (+/-)	Yes
% not answered	7.2	5.6	-21.77	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: TX

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	53,540	55,413	3.50	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on LT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on OT claim	0.0	0.0	0.00	N/A	N/A
% provider IDs with NPI	1.7	1.8	1.33	30% (+/-)	Yes
% provider IDs linked to NPPES	1.7	1.8	1.27	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	583.2	618.7	6.08	30% (+/-)	Yes
average number of beneficiaries with RX claims	114.8	120.9	5.37	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	927	972	4.85	30% (+/-)	Yes
% NPI source = MSIS	0.1	0.1	-4.63	30% (+/-)	Yes
% NPI source = NPPES	99.9	99.9	0.01	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	926	971	4.86	30% (+/-)	Yes
% linked via NPI	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicaid legacy provider ID	2.6	3.0	15.24	30% (+/-)	Yes
% linked via Medicare UPIN	97.4	97.0	-0.41	30% (+/-)	Yes
% with name prefix	37.5	37.7	0.59	30% (+/-)	Yes
% with first name	71.4	69.7	-2.33	30% (+/-)	Yes
% with middle name	54.1	53.1	-1.78	30% (+/-)	Yes
% with last name	71.4	69.7	-2.33	30% (+/-)	Yes
% with name suffix	1.7	1.8	1.33	30% (+/-)	Yes
% male	46.3	45.2	-2.41	30% (+/-)	Yes
% female	25.1	24.5	-2.17	30% (+/-)	Yes
% with credential	69.3	68.0	-1.96	30% (+/-)	Yes
% with business name	28.6	30.3	5.80	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	17.0	16.4	-3.42	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	97.4	97.6	0.23	30% (+/-)	Yes
% with provider entity type = individual	71.4	69.7	-2.33	30% (+/-)	Yes
% with provider entity type = organization	28.6	30.3	5.80	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	903	948	4.98	30% (+/-)	Yes
% individual or group of individuals	91.1	90.9	-0.23	30% (+/-)	Yes
% allopathic and osteopathic physicians	51.8	49.7	-4.13	30% (+/-)	Yes

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table

State: TX

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	6.0	6.3	5.84	30% (+/-)	Yes
% chiropractic providers	8.0	9.1	13.78	30% (+/-)	Yes
% dental providers	2.5	3.1	20.10	30% (+/-)	Yes
% dietary and nutritional service providers	0.6	0.4	-23.83	30% (+/-)	Yes
% emergency medical service providers	0.2	0.2	-4.52	30% (+/-)	Yes
% eye and vision service providers	4.4	4.7	7.16	30% (+/-)	Yes
% nursing service providers	0.3	0.3	-4.82	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	6.5	7.0	6.55	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	6.2	6.2	0.35	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.1	1.2	4.79	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	2.3	2.0	-13.84	30% (+/-)	Yes
% speech, language, and hearing service providers	0.7	0.5	-20.63	30% (+/-)	Yes
% student health care	0.1	0.0	-100.00	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.3	0.2	-36.45	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	8.9	9.1	2.40	30% (+/-)	Yes
% agencies	1.7	1.6	-4.76	30% (+/-)	Yes
% ambulatory health care facilities	4.8	4.9	1.89	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.2	0.2	-4.52	30% (+/-)	Yes
% laboratories	0.2	0.3	42.99	30% (+/-)	Yes
% managed care organizations	0.1	0.1	-5.41	30% (+/-)	Yes
% nursing and custodial care facilities	0.3	0.3	-4.82	30% (+/-)	Yes
% residential treatment facilities	0.4	0.4	-4.74	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.8	0.9	22.45	30% (+/-)	Yes
% transportation services	0.3	0.3	-4.82	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	661	677	2.42	30% (+/-)	Yes
% a sole proprietorship	35.7	38.3	7.15	30% (+/-)	Yes
% not a sole proprietorship	54.5	55.1	1.16	30% (+/-)	Yes
% not answered	9.8	6.6	-32.41	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	265	294	10.94	30% (+/-)	Yes
% organization is a subpart	4.2	4.4	6.53	30% (+/-)	Yes
% organization is not a subpart	68.3	73.5	7.56	30% (+/-)	Yes
% not answered	27.5	22.1	-19.74	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: TX

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	186,001	190,482	2.41	30%(+/-)	Yes
% billing provider on IP claim	0.5	0.5	-3.93	N/A	N/A
% NPI billing provider on IP claim	0.5	0.4	-7.88	N/A	N/A
% billing provider on LT claim	1.1	1.0	-9.17	N/A	N/A
% NPI billing provider on LT claim	1.1	1.0	-5.82	N/A	N/A
% billing provider on OT claim	46.3	51.7	11.62	N/A	N/A
% servicing provider on OT claim	50.7	54.8	8.06	N/A	N/A
% NPI servicing provider on OT claim	44.7	41.3	-7.41	N/A	N/A
% billing provider on RX claim	2.3	2.3	0.74	N/A	N/A
% prescribing provider on RX claim	28.8	29.1	1.06	N/A	N/A
% NPI billing provider on RX claim	2.3	2.3	0.53	N/A	N/A
% billing provider	49.2	54.5	10.90	N/A	N/A
% NPI billing provider	3.8	3.7	-1.54	N/A	N/A
% servicing provider	50.7	54.8	8.06	N/A	N/A
% NPI servicing provider	44.7	41.3	-7.41	N/A	N/A
% prescribing provider	28.8	29.1	1.06	N/A	N/A
% provider IDs with NPI	52.4	49.1	-6.26	30%(+/-)	Yes
% provider IDs linked to NPPES	46.3	48.5	4.72	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	2,187.0	2,098.8	-4.03	30%(+/-)	Yes
average number of beneficiaries with claims	309.6	316.5	2.22	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	97,385	93,489	-4.00	30%(+/-)	Yes
% NPI source = MSIS	99.0	98.6	-0.39	30%(+/-)	Yes
% NPI source = NPPES	1.0	1.2	21.76	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.2	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	86,124	92,361	7.24	30%(+/-)	Yes
% linked via NPI	98.9	98.8	-0.10	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.2	161.73	30%(+/-)	Yes
% linked via Medicare UPIN	1.1	1.0	-2.76	30%(+/-)	Yes
% with name prefix	32.7	33.0	0.87	30%(+/-)	Yes
% with first name	71.4	71.6	0.27	30%(+/-)	Yes
% with middle name	54.0	54.1	0.10	30%(+/-)	Yes
% with last name	71.4	71.6	0.27	30%(+/-)	Yes
% with name suffix	2.9	2.8	-2.49	30%(+/-)	Yes
% male	44.1	43.3	-1.68	30%(+/-)	Yes
% female	27.3	28.3	3.42	30%(+/-)	Yes
% with credential	69.2	69.4	0.29	30%(+/-)	Yes
% with business name	28.6	27.9	-2.42	30%(+/-)	Yes
% with address line 1	100.0	99.5	-0.50	30%(+/-)	Yes
% with city	100.0	99.5	-0.50	30%(+/-)	Yes
% with state	100.0	99.5	-0.50	30%(+/-)	Yes
% state = claim file state code	93.5	92.7	-0.84	30%(+/-)	Yes
% with zip code	100.0	99.5	-0.50	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: TX

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.3	98.1	-1.25	30%(+/-)	Yes
% with provider entity type = individual	71.4	71.6	0.27	30%(+/-)	Yes
% with provider entity type = organization	28.6	27.9	-2.42	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	86,652	90,609	4.57	30%(+/-)	Yes
% individual or group of individuals	73.0	74.2	1.74	30%(+/-)	Yes
% allopathic and osteopathic physicians	45.4	45.1	-0.56	30%(+/-)	Yes
% behavioral health and social service providers	5.5	5.6	1.21	30%(+/-)	Yes
% chiropractic providers	0.6	0.6	5.41	30%(+/-)	Yes
% dental providers	4.4	4.8	9.89	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	17.83	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	153.85	30%(+/-)	Yes
% eye and vision service providers	1.5	1.7	17.17	30%(+/-)	Yes
% nursing service providers	0.4	0.2	-44.77	30%(+/-)	Yes
% nursing service-related providers	0.2	0.1	-32.67	30%(+/-)	Yes
% other service providers	1.4	2.2	62.17	30%(+/-)	Yes
% pharmacy service providers	0.0	0.2	1,664.29	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	7.4	8.9	20.68	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.8	0.8	3.99	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.4	1.7	21.40	30%(+/-)	Yes
% speech, language, and hearing service providers	1.4	1.6	16.67	30%(+/-)	Yes
% student health care	0.1	0.2	67.36	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.1	292.31	30%(+/-)	Yes
% group of individuals with multi- or single specialty	2.4	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	27.0	25.8	-4.69	30%(+/-)	Yes
% agencies	5.7	5.9	4.47	30%(+/-)	Yes
% ambulatory health care facilities	2.8	2.6	-7.15	30%(+/-)	Yes
% hospital units	0.1	0.1	9.09	30%(+/-)	Yes
% hospitals	1.1	1.3	21.68	30%(+/-)	Yes
% laboratories	0.5	0.3	-36.99	30%(+/-)	Yes
% managed care organizations	0.1	0.1	-2.06	30%(+/-)	Yes
% nursing and custodial care facilities	2.9	2.8	-4.07	30%(+/-)	Yes
% residential treatment facilities	0.2	0.2	-5.79	30%(+/-)	Yes
% respite care facility	0.0	0.0	-4.55	30%(+/-)	Yes
% suppliers	12.5	11.4	-9.25	30%(+/-)	Yes
% transportation services	1.1	1.1	-6.24	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	61,502	66,136	7.53	30%(+/-)	Yes
% a sole proprietorship	24.2	24.9	2.64	30%(+/-)	Yes
% not a sole proprietorship	70.1	71.0	1.37	30%(+/-)	Yes
% not answered	5.7	4.1	-27.98	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	24,622	25,765	4.64	30%(+/-)	Yes
% organization is a subpart	14.8	14.8	0.06	30%(+/-)	Yes
% organization is not a subpart	63.6	67.7	6.51	30%(+/-)	Yes
% not answered	21.7	17.5	-19.14	N/A	N/A

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

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