

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

**State-Specific Validation Tables,
2010**

Delaware

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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	44	58	31.82	30% (+/-)	No
% billing provider on IP claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on IP claim	97.7	98.3	0.56	N/A	N/A
% also a provider on LT claim	2.3	1.7	-24.15	N/A	N/A
% also a provider on OT claim	75.0	79.3	5.75	N/A	N/A
% also a provider on RX claim	4.5	3.4	-24.14	N/A	N/A
% provider IDs with NPI	97.7	98.3	0.56	30% (+/-)	Yes
% provider IDs linked to NPPES	97.7	98.3	0.56	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	266.5	230.0	-13.69	30% (+/-)	Yes
average number of beneficiaries with IP claims	222.0	186.4	-16.03	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	43	57	32.56	30% (+/-)	No
% 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	43	57	32.56	30% (+/-)	No
% 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	20.9	15.8	-24.56	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	43	57	32.56	30% (+/-)	No
% individual or group of individuals	0.0	0.0	Div by 0	30% (+/-)	N/A
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

Source: Medicaid Analytic 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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	100.0	100.0	0.00	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	1.8	Div by 0	30% (+/-)	N/A
% hospital units	4.7	1.8	-62.29	30% (+/-)	Yes
% hospitals	95.3	96.5	1.20	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.0	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	43	57	32.56	30% (+/-)	No
% organization is a subpart	7.0	7.0	0.59	30% (+/-)	Yes
% organization is not a subpart	79.1	82.5	4.28	30% (+/-)	Yes
% not answered	14.0	10.5	-24.56	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	67	65	-2.99	30% (+/-)	Yes
% billing provider on LT claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on LT claim	98.5	98.5	-0.05	N/A	N/A
% also a provider on IP claim	1.5	1.5	3.01	N/A	N/A
% also a provider on OT claim	65.7	73.8	12.45	N/A	N/A
% also a provider on RX claim	1.5	0.0	-100.00	N/A	N/A
% provider IDs with NPI	98.5	98.5	-0.05	30% (+/-)	Yes
% provider IDs linked to NPPES	95.5	95.4	-0.14	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	668.8	764.5	14.31	30% (+/-)	Yes
average number of beneficiaries with LT claims	73.0	80.1	9.71	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	66	64	-3.03	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	64	62	-3.13	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	100.0	0.00	30% (+/-)	Yes
% with address line 1	100.0	100.0	0.00	30% (+/-)	Yes
% with city	100.0	100.0	0.00	30% (+/-)	Yes
% with state	100.0	100.0	0.00	30% (+/-)	Yes
% state = LT state code	75.0	77.4	3.23	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	98.4	95.2	-3.33	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	65	59	-9.23	30% (+/-)	Yes
% individual or group of individuals	1.5	1.7	10.21	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A
% behavioral health and social service providers	1.5	1.7	10.21	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: DE

Produced: 02/26/2013

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	98.5	98.3	-0.16	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	1.7	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	15.4	6.8	-55.93	30% (+/-)	No
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	73.8	78.0	5.58	30% (+/-)	Yes
% residential treatment facilities	9.2	11.9	28.52	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Individual					
Number of provider IDs with entity type = individual	0	0	Div by 0	30% (+/-)	N/A
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not answered	0.0	0.0	Div by 0	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	64	62	-3.13	30% (+/-)	Yes
% organization is a subpart	9.4	8.1	-13.97	30% (+/-)	Yes
% organization is not a subpart	59.4	67.7	14.09	30% (+/-)	Yes
% not answered	31.3	24.2	-22.58	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 OT Servicing Provider Characteristics Validation Table

State: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	8,147	8,291	1.77	30% (+/-)	Yes
% billing provider on OT claim	15.7	15.3	-2.73	N/A	N/A
% servicing provider on OT claim	99.4	98.1	-1.31	N/A	N/A
% NPI servicing provider on OT claim	77.0	82.2	6.75	N/A	N/A
% also a provider on IP claim	0.1	0.1	-1.48	N/A	N/A
% also a provider on LT claim	0.2	0.2	-13.78	N/A	N/A
% also a provider on RX claim	42.4	43.7	3.01	N/A	N/A
% provider IDs with NPI	77.5	82.5	6.55	30% (+/-)	Yes
% provider IDs linked to NPPES	76.3	81.6	7.04	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	1,848.0	1,668.6	-9.70	30% (+/-)	Yes
average number of beneficiaries with OT claims	191.7	205.3	7.07	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	6,311	6,843	8.43	30% (+/-)	Yes
% NPI source = MSIS	99.7	99.7	0.07	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.3	-21.02	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	6,213	6,768	8.93	30% (+/-)	Yes
% linked via NPI	99.7	99.7	0.07	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.3	0.3	-25.74	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	35.3	35.2	-0.24	30% (+/-)	Yes
% with first name	89.1	90.1	1.14	30% (+/-)	Yes
% with middle name	55.7	58.1	4.38	30% (+/-)	Yes
% with last name	89.1	90.1	1.14	30% (+/-)	Yes
% with name suffix	2.3	2.3	2.91	30% (+/-)	Yes
% male	47.1	47.6	1.05	30% (+/-)	Yes
% female	42.0	42.5	1.23	30% (+/-)	Yes
% with credential	77.3	79.2	2.50	30% (+/-)	Yes
% with business name	10.9	9.6	-11.99	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.30	30% (+/-)	Yes
% with city	100.0	99.7	-0.30	30% (+/-)	Yes
% with state	100.0	99.7	-0.30	30% (+/-)	Yes
% state = OT state code	70.9	66.2	-6.68	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.30	30% (+/-)	Yes
% with primary taxonomy	99.6	98.6	-1.08	30% (+/-)	Yes
% with provider entity type = individual	89.1	90.1	1.14	30% (+/-)	Yes
% with provider entity type = organization	10.9	9.6	-11.99	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	6,234	6,671	7.01	30% (+/-)	Yes
% individual or group of individuals	78.6	91.7	16.67	30% (+/-)	Yes
% allopathic and osteopathic physicians	53.2	54.4	2.24	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	5.9	6.6	12.30	30% (+/-)	Yes
% chiropractic providers	0.1	0.1	50.00	30% (+/-)	Yes
% dental providers	3.4	3.4	-1.31	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.2	40.63	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	1.0	1.0	9.04	30% (+/-)	Yes
% nursing service providers	0.4	4.7	976.67	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-6.25	30% (+/-)	Yes
% other service providers	1.0	1.8	79.55	30% (+/-)	Yes
% pharmacy service providers	0.2	0.0	-80.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	8.1	9.2	14.44	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.0	1.1	11.75	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.3	5.2	59.58	30% (+/-)	Yes
% speech, language, and hearing service providers	0.4	2.9	604.56	30% (+/-)	Yes
% student health care	0.4	0.8	93.76	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	0.0	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	21.4	8.3	-61.30	30% (+/-)	No
% agencies	0.2	0.5	122.49	30% (+/-)	Yes
% ambulatory health care facilities	13.3	1.6	-88.09	30% (+/-)	No
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	1.4	0.3	-79.22	30% (+/-)	Yes
% laboratories	0.4	0.3	-10.57	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.1	0.1	7.14	30% (+/-)	Yes
% residential treatment facilities	0.0	0.2	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	4.8	4.2	-11.86	30% (+/-)	Yes
% transportation services	1.1	1.0	-5.19	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	5,535	6,098	10.17	30% (+/-)	Yes
% a sole proprietorship	14.7	14.5	-1.20	30% (+/-)	Yes
% not a sole proprietorship	76.4	79.5	4.06	30% (+/-)	Yes
% not answered	8.9	6.0	-32.75	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	678	650	-4.13	30% (+/-)	Yes
% organization is a subpart	15.8	14.5	-8.36	30% (+/-)	Yes
% organization is not a subpart	54.4	66.6	22.40	30% (+/-)	Yes
% not answered	29.8	18.9	-36.49	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	2,139	2,179	1.87	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	57.5	51.0	-11.26	N/A	N/A
% NPI servicing provider on OT claim	54.1	52.3	-3.36	N/A	N/A
% also a provider on IP claim	1.5	2.1	36.81	N/A	N/A
% also a provider on LT claim	2.0	2.2	9.60	N/A	N/A
% also a provider on RX claim	29.6	25.0	-15.77	N/A	N/A
% provider IDs with NPI	59.0	58.3	-1.14	30% (+/-)	Yes
% provider IDs linked to NPPES	57.1	56.6	-0.79	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	5,359.9	5,688.0	6.12	30% (+/-)	Yes
average number of beneficiaries with OT claims	383.1	408.0	6.50	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	1,262	1,271	0.71	30% (+/-)	Yes
% NPI source = MSIS	96.4	95.5	-0.87	30% (+/-)	Yes
% NPI source = NPPES	3.6	4.5	23.05	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	1,221	1,234	1.06	30% (+/-)	Yes
% linked via NPI	96.2	95.4	-0.89	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	3.8	4.6	22.62	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	24.9	24.1	-3.01	30% (+/-)	Yes
% with first name	40.1	39.8	-0.85	30% (+/-)	Yes
% with middle name	32.8	32.8	-0.07	30% (+/-)	Yes
% with last name	40.1	39.8	-0.85	30% (+/-)	Yes
% with name suffix	2.4	2.0	-14.69	30% (+/-)	Yes
% male	27.6	27.0	-2.23	30% (+/-)	Yes
% female	12.5	12.8	2.18	30% (+/-)	Yes
% with credential	38.7	38.4	-0.84	30% (+/-)	Yes
% with business name	59.9	59.3	-0.92	30% (+/-)	Yes
% with address line 1	100.0	99.1	-0.89	30% (+/-)	Yes
% with city	100.0	99.1	-0.89	30% (+/-)	Yes
% with state	100.0	99.1	-0.89	30% (+/-)	Yes
% state = OT state code	77.8	73.6	-5.43	30% (+/-)	Yes
% with zip code	100.0	99.1	-0.89	30% (+/-)	Yes
% with primary taxonomy	99.5	97.7	-1.79	30% (+/-)	Yes
% with provider entity type = individual	40.1	39.8	-0.85	30% (+/-)	Yes
% with provider entity type = organization	59.9	59.3	-0.92	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	1,250	1,206	-3.52	30% (+/-)	Yes
% individual or group of individuals	52.4	50.0	-4.58	30% (+/-)	Yes
% allopathic and osteopathic physicians	26.8	26.5	-0.99	30% (+/-)	Yes

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	11.1	7.0	-37.37	30% (+/-)	No
% chiropractic providers	0.2	0.2	3.75	30% (+/-)	Yes
% dental providers	6.5	6.9	6.20	30% (+/-)	Yes
% dietary and nutritional service providers	0.1	0.1	3.75	30% (+/-)	Yes
% emergency medical service providers	0.0	0.2	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.8	1.4	76.25	30% (+/-)	Yes
% nursing service providers	1.4	1.2	-13.61	30% (+/-)	Yes
% nursing service-related providers	0.2	0.2	55.63	30% (+/-)	Yes
% other service providers	1.0	2.1	99.33	30% (+/-)	Yes
% pharmacy service providers	0.8	0.1	-89.63	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	1.0	1.1	3.65	30% (+/-)	Yes
% podiatric medicine and surgery service providers	2.2	2.4	7.37	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.2	0.3	38.33	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.2	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	47.6	50.0	5.04	30% (+/-)	Yes
% agencies	1.0	2.5	159.17	30% (+/-)	Yes
% ambulatory health care facilities	9.7	8.8	-9.20	30% (+/-)	Yes
% hospital units	0.0	0.1	Div by 0	30% (+/-)	N/A
% hospitals	3.4	3.9	15.98	30% (+/-)	Yes
% laboratories	1.8	1.9	3.64	30% (+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	2.6	3.2	22.50	30% (+/-)	Yes
% residential treatment facilities	0.0	1.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.1	Div by 0	30% (+/-)	N/A
% suppliers	23.8	23.1	-3.31	30% (+/-)	Yes
% transportation services	5.3	5.5	3.66	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	490	491	0.20	30% (+/-)	Yes
% a sole proprietorship	49.8	51.1	2.66	30% (+/-)	Yes
% not a sole proprietorship	40.6	38.9	-4.22	30% (+/-)	Yes
% not answered	9.6	10.0	4.05	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	731	732	0.14	30% (+/-)	Yes
% organization is a subpart	17.8	16.7	-6.28	30% (+/-)	Yes
% organization is not a subpart	54.7	66.1	20.83	30% (+/-)	Yes
% not answered	27.5	17.2	-37.40	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	265	275	3.77	30% (+/-)	Yes
% billing provider on RX claim	100.0	100.0	0.00	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	100.0	100.0	0.00	N/A	N/A
% also a provider on IP claim	0.4	0.4	-3.45	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	64.9	48.0	-26.05	N/A	N/A
% provider IDs with NPI	100.0	100.0	0.00	30% (+/-)	Yes
% provider IDs linked to NPES	99.6	100.0	0.38	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	7,253.4	7,795.1	7.47	30% (+/-)	Yes
average number of beneficiaries with RX claims	863.5	872.7	1.06	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	265	275	3.77	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPES	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 NPES					
Number of provider IDs linked to NPES	264	275	4.17	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	98.5	-1.46	30% (+/-)	Yes
% with address line 1	100.0	98.5	-1.46	30% (+/-)	Yes
% with city	100.0	98.5	-1.46	30% (+/-)	Yes
% with state	100.0	98.5	-1.46	30% (+/-)	Yes
% state = RX state code	68.2	66.2	-2.93	30% (+/-)	Yes
% with zip code	100.0	98.5	-1.46	30% (+/-)	Yes
% with primary taxonomy	100.0	97.1	-2.91	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	98.5	-1.46	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	265	267	0.75	30% (+/-)	Yes
% individual or group of individuals	20.8	1.9	-90.98	30% (+/-)	No
% 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: DE

Produced: 02/26/2013

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	20.8	1.9	-90.98	30% (+/-)	No
% 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	79.2	98.1	23.83	30% (+/-)	Yes
% agencies	0.0	0.0	Div by 0	30% (+/-)	N/A
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.4	0.4	-0.53	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	78.9	97.8	23.95	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	264	271	2.65	30% (+/-)	Yes
% organization is a subpart	37.5	35.4	-5.54	30% (+/-)	Yes
% organization is not a subpart	54.5	59.0	8.24	30% (+/-)	Yes
% not answered	8.0	5.5	-30.42	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	5,264	5,533	5.11	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	-5.26	N/A	N/A
% also a provider on LT claim	0.0	0.0	-100.00	N/A	N/A
% also a provider on OT claim	63.5	63.3	-0.28	N/A	N/A
% provider IDs with NPI	58.8	60.2	2.49	30% (+/-)	Yes
% provider IDs linked to NPES	58.6	60.2	2.75	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	365.1	387.4	6.10	30% (+/-)	Yes
average number of beneficiaries with RX claims	70.0	74.3	6.13	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	3,093	3,332	7.73	30% (+/-)	Yes
% NPI source = MSIS	99.4	99.6	0.16	30% (+/-)	Yes
% NPI source = NPES	0.6	0.4	-27.84	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	3,085	3,332	8.01	30% (+/-)	Yes
% linked via NPI	99.4	99.6	0.16	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.6	0.4	-23.77	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-100.00	30% (+/-)	Yes
% with name prefix	46.6	46.6	0.06	30% (+/-)	Yes
% with first name	98.7	99.0	0.25	30% (+/-)	Yes
% with middle name	72.2	73.7	2.07	30% (+/-)	Yes
% with last name	98.7	99.0	0.25	30% (+/-)	Yes
% with name suffix	3.2	3.4	3.70	30% (+/-)	Yes
% male	61.3	60.2	-1.79	30% (+/-)	Yes
% female	37.4	38.7	3.58	30% (+/-)	Yes
% with credential	97.1	97.1	0.01	30% (+/-)	Yes
% with business name	1.3	0.8	-33.54	30% (+/-)	Yes
% with address line 1	100.0	99.8	-0.18	30% (+/-)	Yes
% with city	100.0	99.8	-0.18	30% (+/-)	Yes
% with state	100.0	99.8	-0.18	30% (+/-)	Yes
% state = RX state code	77.6	74.3	-4.24	30% (+/-)	Yes
% with zip code	100.0	99.8	-0.18	30% (+/-)	Yes
% with primary taxonomy	99.5	98.8	-0.78	30% (+/-)	Yes
% with provider entity type = individual	98.7	99.0	0.25	30% (+/-)	Yes
% with provider entity type = organization	1.3	0.8	-33.54	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	3,076	3,291	6.99	30% (+/-)	Yes
% individual or group of individuals	98.1	99.7	1.55	30% (+/-)	Yes
% allopathic and osteopathic physicians	74.5	72.2	-3.15	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: DE

Produced: 02/26/2013

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	0.1	84.85	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	6.0	6.2	2.51	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	1.7	1.7	2.42	30% (+/-)	Yes
% nursing service providers	0.1	0.2	40.00	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.7	2.9	67.56	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	11.3	13.2	15.96	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.8	1.7	-3.13	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	-9.09	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.8	1.5	87.05	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	0.0	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	1.9	0.3	-81.98	30% (+/-)	Yes
% agencies	0.0	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	0.3	0.1	-53.08	30% (+/-)	Yes
% hospital units	0.0	0.0	-100.00	30% (+/-)	Yes
% hospitals	1.5	0.2	-88.09	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	0.0	Div by 0	30% (+/-)	N/A
% transportation services	0.0	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	3,046	3,298	8.27	30% (+/-)	Yes
% a sole proprietorship	16.8	17.4	3.93	30% (+/-)	Yes
% not a sole proprietorship	71.9	75.1	4.37	30% (+/-)	Yes
% not answered	11.3	7.5	-33.68	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	39	28	-28.21	30% (+/-)	Yes
% organization is a subpart	7.7	3.6	-53.58	30% (+/-)	Yes
% organization is not a subpart	51.3	60.7	18.39	30% (+/-)	Yes
% not answered	41.0	35.7	-12.95	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	11,059	11,409	3.16	30%(+/-)	Yes
% billing provider on IP claim	0.4	0.5	27.64	N/A	N/A
% NPI billing provider on IP claim	0.4	0.5	28.53	N/A	N/A
% billing provider on LT claim	0.6	0.6	-5.94	N/A	N/A
% NPI billing provider on LT claim	0.6	0.6	-6.03	N/A	N/A
% billing provider on OT claim	19.3	19.1	-1.26	N/A	N/A
% servicing provider on OT claim	73.2	71.3	-2.65	N/A	N/A
% NPI servicing provider on OT claim	56.7	59.7	5.31	N/A	N/A
% billing provider on RX claim	2.4	2.4	0.58	N/A	N/A
% prescribing provider on RX claim	47.6	48.5	1.89	N/A	N/A
% NPI billing provider on RX claim	2.4	2.4	0.58	N/A	N/A
% billing provider	20.5	20.6	0.39	N/A	N/A
% NPI billing provider	3.4	3.5	2.64	N/A	N/A
% servicing provider	73.2	71.3	-2.65	N/A	N/A
% NPI servicing provider	56.7	59.7	5.31	N/A	N/A
% prescribing provider	47.6	48.5	1.89	N/A	N/A
% provider IDs with NPI	59.1	62.6	5.90	30%(+/-)	Yes
% provider IDs linked to NPPES	58.2	61.9	6.39	30%(+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of claims	1,977.3	1,885.3	-4.65	30%(+/-)	Yes
average number of beneficiaries with claims	199.5	210.0	5.27	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	6,538	7,143	9.25	30%(+/-)	Yes
% NPI source = MSIS	98.9	98.9	0.01	30%(+/-)	Yes
% NPI source = NPPES	1.1	1.1	-0.98	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	6,438	7,066	9.75	30%(+/-)	Yes
% linked via NPI	98.9	98.9	0.02	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	1.1	1.1	-1.25	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	-12.50	30%(+/-)	Yes
% with name prefix	34.1	33.9	-0.76	30%(+/-)	Yes
% with first name	86.2	86.5	0.37	30%(+/-)	Yes
% with middle name	53.9	55.9	3.61	30%(+/-)	Yes
% with last name	86.2	86.5	0.37	30%(+/-)	Yes
% with name suffix	2.2	2.3	1.99	30%(+/-)	Yes
% male	45.6	45.7	0.21	30%(+/-)	Yes
% female	40.6	40.8	0.55	30%(+/-)	Yes
% with credential	74.9	76.1	1.72	30%(+/-)	Yes
% with business name	13.8	13.1	-4.78	30%(+/-)	Yes
% with address line 1	100.0	99.7	-0.34	30%(+/-)	Yes
% with city	100.0	99.7	-0.34	30%(+/-)	Yes
% with state	100.0	99.7	-0.34	30%(+/-)	Yes
% state = claim file state code	70.2	65.5	-6.73	30%(+/-)	Yes
% with zip code	100.0	99.7	-0.34	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: DE

Produced: 02/26/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.7	98.5	-1.18	30%(+/-)	Yes
% with provider entity type = individual	86.2	86.5	0.37	30%(+/-)	Yes
% with provider entity type = organization	13.8	13.1	-4.78	30%(+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	6,461	6,959	7.71	30%(+/-)	Yes
% individual or group of individuals	77.3	88.8	14.90	30%(+/-)	Yes
% allopathic and osteopathic physicians	52.0	52.8	1.56	30%(+/-)	Yes
% behavioral health and social service providers	5.7	6.4	11.81	30%(+/-)	Yes
% chiropractic providers	0.1	0.1	49.35	30%(+/-)	Yes
% dental providers	3.3	3.3	-1.56	30%(+/-)	Yes
% dietary and nutritional service providers	0.1	0.2	38.71	30%(+/-)	Yes
% emergency medical service providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% eye and vision service providers	0.9	1.0	8.29	30%(+/-)	Yes
% nursing service providers	0.4	4.5	969.14	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	-6.52	30%(+/-)	Yes
% other service providers	1.0	1.8	78.30	30%(+/-)	Yes
% pharmacy service providers	0.9	0.1	-88.35	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	7.9	9.0	13.59	30%(+/-)	Yes
% podiatric medicine and surgery service providers	1.0	1.1	10.73	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.2	5.0	58.49	30%(+/-)	Yes
% speech, language, and hearing service providers	0.4	2.8	600.50	30%(+/-)	Yes
% student health care	0.4	0.8	92.58	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	0.0	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	22.7	11.2	-50.67	30%(+/-)	No
% agencies	0.2	0.5	118.43	30%(+/-)	Yes
% ambulatory health care facilities	12.9	1.6	-87.85	30%(+/-)	No
% hospital units	0.1	0.0	-81.82	30%(+/-)	Yes
% hospitals	1.9	0.9	-50.53	30%(+/-)	Yes
% laboratories	0.4	0.3	-7.02	30%(+/-)	Yes
% managed care organizations	0.0	0.0	Div by 0	30%(+/-)	N/A
% nursing and custodial care facilities	0.8	0.7	-7.12	30%(+/-)	Yes
% residential treatment facilities	0.1	0.3	193.55	30%(+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30%(+/-)	N/A
% suppliers	5.4	5.9	9.56	30%(+/-)	Yes
% transportation services	1.0	1.0	-5.77	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	5,551	6,115	10.16	30%(+/-)	Yes
% a sole proprietorship	14.7	14.5	-1.33	30%(+/-)	Yes
% not a sole proprietorship	76.4	79.5	4.07	30%(+/-)	Yes
% not answered	8.9	6.0	-32.75	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	887	927	4.51	30%(+/-)	Yes
% organization is a subpart	17.7	17.3	-2.49	30%(+/-)	Yes
% organization is not a subpart	55.2	66.2	19.90	30%(+/-)	Yes
% not answered	27.1	16.5	-39.00	N/A	N/A

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

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