

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

**State-Specific Validation Tables,  
2010**

**Oregon**

May 31, 2013

Deo Bencio  
Mei-ling Mason



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**Policy Research**

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Contract Number:  
HHSM-500-2005-00025I

Task Number:  
HHSM-500-T0002

Mathematica Reference Number:  
06759.660

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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.<sup>1</sup> The NPI is a unique 10-digit, sequentially assigned national identification number, unstructured so as not to carry any way information such as the state or medical specialty of the health care provider who “owns” the identifier. Beginning in February 2009, states were required to include NPIs on claims submitted to MSIS. The main limitation of this identifier, however, is that certain classes of nonmedical providers are not required to obtain an NPI. Nonetheless, the availability of the NPI on MSIS claims makes the development of a uniform provider characteristic file more feasible. The MAX Provider Characteristics (MAXPC) file is such a file.

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

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

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<sup>1</sup> 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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>IP Providers</b>					
Number of provider IDs	337	334	-0.89	30% (+/-)	Yes
% billing provider on IP claim	54.9	54.8	-0.19	N/A	N/A
% NPI billing provider on IP claim	45.1	45.2	0.24	N/A	N/A
% also a provider on LT claim	8.3	8.4	0.89	N/A	N/A
% also a provider on OT claim	55.8	55.4	-0.71	N/A	N/A
% also a provider on RX claim	19.9	9.9	-50.30	N/A	N/A
% provider IDs with NPI	93.5	95.2	1.86	30% (+/-)	Yes
% provider IDs linked to NPPES	93.5	95.2	1.86	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	386.3	393.9	1.95	30% (+/-)	Yes
average number of beneficiaries with IP claims	331.6	335.8	1.28	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	315	318	0.95	30% (+/-)	Yes
% NPI source = MSIS	97.5	97.2	-0.30	30% (+/-)	Yes
% NPI source = NPPES	2.5	2.8	11.42	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	315	318	0.95	30% (+/-)	Yes
% linked via NPI	97.5	97.2	-0.30	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.6	1.9	18.90	30% (+/-)	Yes
% linked via Medicare UPIN	1.0	0.9	-0.95	30% (+/-)	Yes
% with name prefix	0.3	0.3	-0.95	30% (+/-)	Yes
% with first name	0.6	0.6	-0.94	30% (+/-)	Yes
% with middle name	0.6	0.6	-0.94	30% (+/-)	Yes
% with last name	0.6	0.6	-0.94	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.3	0.3	-0.95	30% (+/-)	Yes
% female	0.3	0.3	-0.95	30% (+/-)	Yes
% with credential	0.6	0.6	-0.94	30% (+/-)	Yes
% with business name	99.4	99.4	0.01	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	50.2	50.0	-0.32	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	0.6	0.6	-0.94	30% (+/-)	Yes
% with provider entity type = organization	99.4	99.4	0.01	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	315	318	0.95	30% (+/-)	Yes
% individual or group of individuals	0.3	1.9	495.27	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.3	1.9	495.27	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.7	98.1	-1.57	30% (+/-)	Yes
% agencies	1.3	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	3.2	0.6	-80.19	30% (+/-)	Yes
% hospital units	10.8	10.4	-3.86	30% (+/-)	Yes
% hospitals	81.6	85.2	4.45	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	1.6	1.3	-20.73	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.3	0.0	-100.00	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	0.6	0.6	-0.94	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	2	2	0.00	30% (+/-)	Yes
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% not answered	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	313	316	0.96	30% (+/-)	Yes
% organization is a subpart	17.6	18.4	4.45	30% (+/-)	Yes
% organization is not a subpart	77.6	75.0	-3.40	30% (+/-)	Yes
% not answered	4.8	6.6	38.69	N/A	N/A

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>LT Providers</b>					
Number of provider IDs	341	348	2.05	30% (+/-)	Yes
% billing provider on LT claim	54.5	55.5	1.68	N/A	N/A
% NPI billing provider on LT claim	45.5	44.5	-2.01	N/A	N/A
% also a provider on IP claim	8.2	8.0	-2.01	N/A	N/A
% also a provider on OT claim	16.7	11.5	-31.24	N/A	N/A
% also a provider on RX claim	4.7	4.3	-8.14	N/A	N/A
% provider IDs with NPI	95.3	95.1	-0.20	30% (+/-)	Yes
% provider IDs linked to NPPES	94.7	95.1	0.42	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	661.3	577.0	-12.74	30% (+/-)	Yes
average number of beneficiaries with LT claims	69.1	69.8	1.02	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	325	331	1.85	30% (+/-)	Yes
% NPI source = MSIS	97.5	95.5	-2.12	30% (+/-)	Yes
% NPI source = NPPES	2.5	4.5	84.08	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	323	331	2.48	30% (+/-)	Yes
% linked via NPI	97.5	95.5	-2.11	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	1.5	3.6	134.17	30% (+/-)	Yes
% linked via Medicare UPIN	0.9	0.9	-2.48	30% (+/-)	Yes
% with name prefix	0.3	0.3	-2.58	30% (+/-)	Yes
% with first name	0.6	0.6	-2.42	30% (+/-)	Yes
% with middle name	0.6	0.6	-2.42	30% (+/-)	Yes
% with last name	0.6	0.6	-2.42	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.3	0.3	-2.58	30% (+/-)	Yes
% female	0.3	0.3	-2.58	30% (+/-)	Yes
% with credential	0.6	0.6	-2.42	30% (+/-)	Yes
% with business name	99.4	99.4	0.02	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	98.8	98.8	0.03	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.7	95.2	-4.54	30% (+/-)	Yes
% with provider entity type = individual	0.6	0.6	-2.42	30% (+/-)	Yes
% with provider entity type = organization	99.4	99.4	0.02	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	324	315	-2.78	30% (+/-)	Yes
% individual or group of individuals	0.9	0.6	-31.43	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.9	0.6	-31.43	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.1	99.4	0.29	30% (+/-)	Yes
% agencies	1.9	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	1.2	0.6	-48.58	30% (+/-)	Yes
% hospital units	1.9	2.5	37.15	30% (+/-)	Yes
% hospitals	2.5	3.5	41.43	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	1.5	1.3	-17.69	30% (+/-)	Yes
% nursing and custodial care facilities	77.8	84.8	8.98	30% (+/-)	Yes
% residential treatment facilities	10.5	6.7	-36.47	30% (+/-)	No
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.6	0.0	-100.00	30% (+/-)	Yes
% transportation services	1.2	0.0	-100.00	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	2	2	0.00	30% (+/-)	Yes
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	100.0	100.0	0.00	30% (+/-)	Yes
% not answered	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	321	329	2.49	30% (+/-)	Yes
% organization is a subpart	15.9	16.7	5.22	30% (+/-)	Yes
% organization is not a subpart	50.5	55.6	10.22	30% (+/-)	Yes
% not answered	33.6	27.7	-17.79	N/A	N/A

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>OT Providers</b>					
Number of provider IDs	40,211	47,710	18.65	30% (+/-)	Yes
% billing provider on OT claim	10.3	17.3	68.12	N/A	N/A
% servicing provider on OT claim	75.3	76.9	2.14	N/A	N/A
% NPI servicing provider on OT claim	47.7	40.6	-14.81	N/A	N/A
% also a provider on IP claim	0.1	0.1	-21.71	N/A	N/A
% also a provider on LT claim	0.1	0.0	-57.50	N/A	N/A
% also a provider on RX claim	33.1	24.6	-25.72	N/A	N/A
% provider IDs with NPI	94.7	84.0	-11.35	30% (+/-)	Yes
% provider IDs linked to NPPES	94.5	84.0	-11.13	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	656.6	585.0	-10.90	30% (+/-)	Yes
average number of beneficiaries with OT claims	133.0	123.8	-6.93	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	38,088	40,061	5.18	30% (+/-)	Yes
% NPI source = MSIS	99.8	99.1	-0.63	30% (+/-)	Yes
% NPI source = NPPES	0.2	0.9	267.09	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	37,993	40,061	5.44	30% (+/-)	Yes
% linked via NPI	99.8	99.1	-0.63	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.2	72.22	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.6	494.44	30% (+/-)	Yes
% with name prefix	39.7	39.6	-0.07	30% (+/-)	Yes
% with first name	90.0	90.0	0.00	30% (+/-)	Yes
% with middle name	74.2	73.9	-0.32	30% (+/-)	Yes
% with last name	90.0	90.0	0.00	30% (+/-)	Yes
% with name suffix	1.8	1.8	-4.19	30% (+/-)	Yes
% male	55.9	54.6	-2.22	30% (+/-)	Yes
% female	34.1	35.4	3.65	30% (+/-)	Yes
% with credential	87.8	87.9	0.03	30% (+/-)	Yes
% with business name	10.0	9.5	-4.66	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.46	30% (+/-)	Yes
% with city	100.0	99.5	-0.46	30% (+/-)	Yes
% with state	100.0	99.5	-0.46	30% (+/-)	Yes
% state = OT state code	75.4	72.5	-3.85	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.46	30% (+/-)	Yes
% with primary taxonomy	99.9	97.8	-2.15	30% (+/-)	Yes
% with provider entity type = individual	90.0	90.0	0.00	30% (+/-)	Yes
% with provider entity type = organization	10.0	9.5	-4.66	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	38,059	39,168	2.91	30% (+/-)	Yes
% individual or group of individuals	91.1	91.5	0.41	30% (+/-)	Yes
% allopathic and osteopathic physicians	58.0	58.3	0.40	30% (+/-)	Yes

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	2.8	3.0	8.76	30% (+/-)	Yes
% chiropractic providers	0.7	0.6	-2.58	30% (+/-)	Yes
% dental providers	5.2	5.4	3.38	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	16.87	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	-21.13	30% (+/-)	Yes
% eye and vision service providers	2.1	2.1	-1.10	30% (+/-)	Yes
% nursing service providers	1.4	1.1	-20.38	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	-61.54	30% (+/-)	Yes
% other service providers	3.8	3.1	-17.26	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-70.59	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	10.5	11.8	12.28	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.8	0.7	-6.21	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.5	3.8	7.01	30% (+/-)	Yes
% speech, language, and hearing service providers	1.0	1.0	-2.58	30% (+/-)	Yes
% student health care	0.4	0.3	-27.99	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	-23.33	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	8.9	8.5	-4.24	30% (+/-)	Yes
% agencies	1.0	0.9	-10.09	30% (+/-)	Yes
% ambulatory health care facilities	1.8	1.5	-15.50	30% (+/-)	Yes
% hospital units	0.0	0.0	-44.44	30% (+/-)	Yes
% hospitals	0.2	0.2	-0.48	30% (+/-)	Yes
% laboratories	0.7	0.8	8.68	30% (+/-)	Yes
% managed care organizations	0.0	0.0	16.67	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.1	109.09	30% (+/-)	Yes
% residential treatment facilities	0.4	0.4	-5.24	30% (+/-)	Yes
% respite care facility	0.0	0.0	-61.54	30% (+/-)	Yes
% suppliers	3.6	3.4	-4.25	30% (+/-)	Yes
% transportation services	1.0	1.1	5.77	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	34,200	36,063	5.45	30% (+/-)	Yes
% a sole proprietorship	17.0	17.3	1.75	30% (+/-)	Yes
% not a sole proprietorship	73.5	76.2	3.61	30% (+/-)	Yes
% not answered	9.5	6.5	-31.15	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	3,793	3,813	0.53	30% (+/-)	Yes
% organization is a subpart	11.0	12.2	10.43	30% (+/-)	Yes
% organization is not a subpart	65.0	70.2	7.86	30% (+/-)	Yes
% not answered	23.9	17.7	-26.16	N/A	N/A

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

<sup>a</sup> "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: OR**  
**Produced: 02/28/2013**

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>OT Providers</b>					
Number of provider IDs	30,347	30,149	-0.65	30% (+/-)	Yes
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	13.7	27.4	100.78	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.0	Div by 0	N/A	N/A
% also a provider on IP claim	0.5	0.5	-2.08	N/A	N/A
% also a provider on LT claim	0.1	0.1	-26.23	N/A	N/A
% also a provider on RX claim	2.3	0.4	-81.58	N/A	N/A
% provider IDs with NPI	15.0	14.1	-6.09	30% (+/-)	Yes
% provider IDs linked to NPPES	15.0	14.1	-5.86	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	1,152.8	1,347.8	16.92	30% (+/-)	Yes
average number of beneficiaries with OT claims	100.2	110.2	10.00	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	4,553	4,248	-6.70	30% (+/-)	Yes
% NPI source = MSIS	82.5	81.3	-1.47	30% (+/-)	Yes
% NPI source = NPPES	17.5	18.7	6.91	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	4,542	4,248	-6.47	30% (+/-)	Yes
% linked via NPI	82.5	81.3	-1.42	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	14.5	15.6	7.08	30% (+/-)	Yes
% linked via Medicare UPIN	3.0	3.2	4.58	30% (+/-)	Yes
% with name prefix	27.7	25.8	-6.91	30% (+/-)	Yes
% with first name	51.0	47.5	-6.92	30% (+/-)	Yes
% with middle name	44.1	40.9	-7.43	30% (+/-)	Yes
% with last name	51.0	47.5	-6.92	30% (+/-)	Yes
% with name suffix	1.2	1.0	-18.84	30% (+/-)	Yes
% male	33.5	30.5	-8.88	30% (+/-)	Yes
% female	17.5	17.0	-3.15	30% (+/-)	Yes
% with credential	49.9	46.2	-7.47	30% (+/-)	Yes
% with business name	49.0	52.0	6.20	30% (+/-)	Yes
% with address line 1	100.0	99.5	-0.49	30% (+/-)	Yes
% with city	100.0	99.5	-0.49	30% (+/-)	Yes
% with state	100.0	99.5	-0.49	30% (+/-)	Yes
% state = OT state code	86.4	86.1	-0.43	30% (+/-)	Yes
% with zip code	100.0	99.5	-0.49	30% (+/-)	Yes
% with primary taxonomy	99.6	96.7	-2.94	30% (+/-)	Yes
% with provider entity type = individual	51.0	47.5	-6.92	30% (+/-)	Yes
% with provider entity type = organization	49.0	52.0	6.20	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	4,534	4,106	-9.44	30% (+/-)	Yes
% individual or group of individuals	62.7	60.2	-3.96	30% (+/-)	Yes
% allopathic and osteopathic physicians	32.5	32.2	-0.75	30% (+/-)	Yes

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

<sup>a</sup> "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: OR**  
**Produced: 02/28/2013**

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	4.3	4.4	2.03	30% (+/-)	Yes
% chiropractic providers	1.4	1.3	-5.40	30% (+/-)	Yes
% dental providers	4.2	3.4	-19.23	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	11.36	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	32.73	30% (+/-)	Yes
% eye and vision service providers	3.2	3.0	-4.16	30% (+/-)	Yes
% nursing service providers	3.7	3.8	2.64	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	9.09	30% (+/-)	Yes
% other service providers	5.4	5.5	1.47	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	2.5	2.5	1.65	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.6	1.6	2.62	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	1.2	1.2	0.57	30% (+/-)	Yes
% speech, language, and hearing service providers	0.7	0.6	-13.05	30% (+/-)	Yes
% student health care	0.1	0.0	-72.73	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.2	0.1	-38.69	30% (+/-)	Yes
% group of individuals with multi- or single specialty	1.3	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	37.3	39.8	6.64	30% (+/-)	Yes
% agencies	5.0	5.2	3.12	30% (+/-)	Yes
% ambulatory health care facilities	9.5	10.2	7.33	30% (+/-)	Yes
% hospital units	0.2	0.1	-26.63	30% (+/-)	Yes
% hospitals	2.7	3.1	15.81	30% (+/-)	Yes
% laboratories	1.7	2.0	22.19	30% (+/-)	Yes
% managed care organizations	0.2	0.1	-5.19	30% (+/-)	Yes
% nursing and custodial care facilities	1.5	1.2	-23.19	30% (+/-)	Yes
% residential treatment facilities	2.1	2.2	1.36	30% (+/-)	Yes
% respite care facility	0.0	0.0	-100.00	30% (+/-)	Yes
% suppliers	11.5	12.5	8.73	30% (+/-)	Yes
% transportation services	3.0	3.2	7.97	30% (+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	2,318	2,018	-12.94	30% (+/-)	Yes
% a sole proprietorship	43.6	46.3	6.22	30% (+/-)	Yes
% not a sole proprietorship	44.6	45.2	1.43	30% (+/-)	Yes
% not answered	11.8	8.5	-28.31	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	2,224	2,209	-0.67	30% (+/-)	Yes
% organization is a subpart	10.7	10.9	1.53	30% (+/-)	Yes
% organization is not a subpart	67.9	73.3	8.08	30% (+/-)	Yes
% not answered	21.4	15.8	-26.39	N/A	N/A

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

<sup>a</sup> "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: OR**  
**Produced: 02/28/2013**

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>RX Providers</b>					
Number of provider IDs	1,469	1,497	1.91	30% (+/-)	Yes
% billing provider on RX claim	50.5	50.6	0.11	N/A	N/A
% prescribing provider on RX claim	15.1	11.6	-23.53	N/A	N/A
% NPI billing provider on RX claim	49.5	49.4	-0.12	N/A	N/A
% also a provider on IP claim	1.0	0.9	-1.89	N/A	N/A
% also a provider on LT claim	1.0	0.9	-1.89	N/A	N/A
% also a provider on OT claim	30.2	29.1	-3.64	N/A	N/A
% provider IDs with NPI	99.3	99.2	-0.05	30% (+/-)	Yes
% provider IDs linked to NPPES	99.3	99.2	-0.05	30% (+/-)	Yes
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	5,247.5	5,694.1	8.51	30% (+/-)	Yes
average number of beneficiaries with RX claims	467.4	508.1	8.73	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	1,458	1,485	1.85	30% (+/-)	Yes
% NPI source = MSIS	99.7	99.7	0.01	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.3	-1.82	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	1,458	1,485	1.85	30% (+/-)	Yes
% linked via NPI	99.7	99.7	0.01	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.1	0.1	-1.46	30% (+/-)	Yes
% linked via Medicare UPIN	0.1	0.1	-1.46	30% (+/-)	Yes
% with name prefix	0.3	0.3	-1.75	30% (+/-)	Yes
% with first name	0.6	0.6	-1.78	30% (+/-)	Yes
% with middle name	0.6	0.6	-1.78	30% (+/-)	Yes
% with last name	0.6	0.6	-1.78	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.6	0.6	-1.78	30% (+/-)	Yes
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.3	0.3	-1.75	30% (+/-)	Yes
% with business name	99.4	98.6	-0.80	30% (+/-)	Yes
% with address line 1	100.0	99.2	-0.81	30% (+/-)	Yes
% with city	100.0	99.2	-0.81	30% (+/-)	Yes
% with state	100.0	99.2	-0.81	30% (+/-)	Yes
% state = RX state code	91.2	89.9	-1.45	30% (+/-)	Yes
% with zip code	100.0	99.2	-0.81	30% (+/-)	Yes
% with primary taxonomy	99.7	96.6	-3.10	30% (+/-)	Yes
% with provider entity type = individual	0.6	0.6	-1.78	30% (+/-)	Yes
% with provider entity type = organization	99.4	98.6	-0.80	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	1,454	1,435	-1.31	30% (+/-)	Yes
% individual or group of individuals	4.7	2.6	-45.68	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.1	0.1	1.45	30% (+/-)	Yes

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

<sup>a</sup> "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: OR**  
**Produced: 02/28/2013**

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	0.1	0.0	-100.00	30% (+/-)	Yes
% 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	4.3	2.5	-42.10	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	0.1	0.0	-100.00	30% (+/-)	Yes
% 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	0.1	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	95.3	97.4	2.28	30% (+/-)	Yes
% agencies	0.1	0.1	0.72	30% (+/-)	Yes
% ambulatory health care facilities	0.4	0.3	-15.74	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	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.1	0.1	0.72	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	94.6	96.7	2.21	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
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	9	9	0.00	30% (+/-)	Yes
% a sole proprietorship	66.7	66.7	0.00	30% (+/-)	Yes
% not a sole proprietorship	11.1	11.1	0.00	30% (+/-)	Yes
% not answered	22.2	22.2	0.00	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	1,449	1,464	1.04	30% (+/-)	Yes
% organization is a subpart	15.0	16.5	9.87	30% (+/-)	Yes
% organization is not a subpart	73.6	76.0	3.15	30% (+/-)	Yes
% not answered	11.3	7.5	-33.61	N/A	N/A

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>RX Providers</b>					
Number of provider IDs	21,646	17,040	-21.28	30% (+/-)	Yes
% billing provider on RX claim	0.0	0.0	-100.00	N/A	N/A
% prescribing provider on RX claim	100.0	100.0	0.00	N/A	N/A
% NPI billing provider on RX claim	1.0	1.0	-0.10	N/A	N/A
% also a provider on IP claim	0.2	0.1	-54.29	N/A	N/A
% also a provider on LT claim	0.0	0.0	-33.33	N/A	N/A
% also a provider on OT claim	59.9	66.7	11.34	N/A	N/A
% provider IDs with NPI	58.1	58.5	0.66	30% (+/-)	Yes
% provider IDs linked to NPES	58.0	58.5	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 RX claims	147.6	168.6	14.21	30% (+/-)	Yes
average number of beneficiaries with RX claims	18.5	21.5	16.45	30% (+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	12,576	9,965	-20.76	30% (+/-)	Yes
% NPI source = MSIS	99.4	99.9	0.48	30% (+/-)	Yes
% NPI source = NPES	0.6	0.1	-79.87	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPES</b>					
Number of provider IDs linked to NPES	12,559	9,965	-20.65	30% (+/-)	Yes
% linked via NPI	99.4	99.9	0.48	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.4	0.0	-92.75	30% (+/-)	Yes
% linked via Medicare UPIN	0.2	0.1	-50.82	30% (+/-)	Yes
% with name prefix	42.4	43.1	1.63	30% (+/-)	Yes
% with first name	96.3	97.0	0.77	30% (+/-)	Yes
% with middle name	80.7	81.3	0.70	30% (+/-)	Yes
% with last name	96.3	97.0	0.77	30% (+/-)	Yes
% with name suffix	2.0	1.9	-2.32	30% (+/-)	Yes
% male	59.4	57.2	-3.74	30% (+/-)	Yes
% female	36.8	39.8	8.05	30% (+/-)	Yes
% with credential	94.7	95.4	0.71	30% (+/-)	Yes
% with business name	3.8	2.6	-30.16	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	88.1	84.8	-3.74	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.39	30% (+/-)	Yes
% with primary taxonomy	99.9	98.5	-1.39	30% (+/-)	Yes
% with provider entity type = individual	96.3	97.0	0.77	30% (+/-)	Yes
% with provider entity type = organization	3.8	2.6	-30.16	30% (+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPES Primary Taxonomy</b>					
Number of provider IDs with NPES primary taxonomy	12,568	9,820	-21.87	30% (+/-)	Yes
% individual or group of individuals	96.7	97.6	1.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	70.2	68.3	-2.70	30% (+/-)	Yes

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

<sup>a</sup> "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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% behavioral health and social service providers	0.4	0.1	-76.41	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	-16.67	30% (+/-)	Yes
% dental providers	5.4	6.6	21.95	30% (+/-)	Yes
% dietary and nutritional service providers	0.0	0.0	25.00	30% (+/-)	Yes
% emergency medical service providers	0.1	0.1	-14.29	30% (+/-)	Yes
% eye and vision service providers	1.2	1.3	7.22	30% (+/-)	Yes
% nursing service providers	0.4	0.2	-53.38	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	3.9	3.0	-22.67	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	-58.33	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	13.0	16.6	27.91	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.8	0.9	23.95	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.1	0.1	-45.05	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	-100.00	30% (+/-)	Yes
% student health care	0.5	0.4	-7.16	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.0	0.0	-58.33	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	3.3	2.4	-28.95	30% (+/-)	Yes
% agencies	0.1	0.1	-54.81	30% (+/-)	Yes
% ambulatory health care facilities	0.9	0.3	-63.89	30% (+/-)	Yes
% hospital units	0.0	0.0	-58.33	30% (+/-)	Yes
% hospitals	0.4	0.2	-47.29	30% (+/-)	Yes
% laboratories	0.0	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.0	0.0	150.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	-68.75	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	1.8	1.7	-4.71	30% (+/-)	Yes
% transportation services	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	12,088	9,665	-20.04	30% (+/-)	Yes
% a sole proprietorship	15.1	15.2	0.84	30% (+/-)	Yes
% not a sole proprietorship	74.7	78.9	5.54	30% (+/-)	Yes
% not answered	10.2	5.9	-42.01	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	471	261	-44.59	30% (+/-)	No
% organization is a subpart	13.8	7.7	-44.47	30% (+/-)	No
% organization is not a subpart	74.5	85.4	14.65	30% (+/-)	Yes
% not answered	11.7	6.9	-40.94	N/A	N/A

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

<sup>a</sup> "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 All Provider Characteristics Validation Table**

State: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
<b>All Providers</b>					
Number of provider IDs	76,387	76,668	0.37	30%(+/-)	Yes
% billing provider on IP claim	0.2	0.2	-1.24	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	-1.01	N/A	N/A
% billing provider on LT claim	0.2	0.3	3.70	N/A	N/A
% NPI billing provider on LT claim	0.2	0.2	-0.49	N/A	N/A
% billing provider on OT claim	39.7	39.3	-1.02	N/A	N/A
% servicing provider on OT claim	39.6	47.8	20.75	N/A	N/A
% NPI servicing provider on OT claim	25.1	25.3	0.71	N/A	N/A
% billing provider on RX claim	1.0	1.0	1.65	N/A	N/A
% prescribing provider on RX claim	28.3	22.2	-21.57	N/A	N/A
% NPI billing provider on RX claim	1.0	1.0	1.37	N/A	N/A
% billing provider	40.8	40.4	-0.86	N/A	N/A
% NPI billing provider	1.4	1.4	0.74	N/A	N/A
% servicing provider	39.6	47.8	20.75	N/A	N/A
% NPI servicing provider	25.1	25.3	0.71	N/A	N/A
% prescribing provider	28.3	22.2	-21.57	N/A	N/A
% provider IDs with NPI	53.0	55.3	4.34	30%(+/-)	Yes
% provider IDs linked to NPPES	52.9	55.3	4.59	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	847.6	939.6	10.86	30%(+/-)	Yes
average number of beneficiaries with claims	106.5	116.9	9.78	30%(+/-)	Yes
<b>Provider IDs with NPI</b>					
Number of provider IDs with NPI	40,491	42,402	4.72	30%(+/-)	Yes
% NPI source = MSIS	97.7	97.5	-0.23	30%(+/-)	Yes
% NPI source = NPPES	2.3	2.5	9.59	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs Linked to NPPES</b>					
Number of provider IDs linked to NPPES	40,394	42,402	4.97	30%(+/-)	Yes
% linked via NPI	97.7	97.5	-0.22	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	1.8	1.7	-7.37	30%(+/-)	Yes
% linked via Medicare UPIN	0.5	0.8	70.10	30%(+/-)	Yes
% with name prefix	37.6	37.6	0.00	30%(+/-)	Yes
% with first name	85.1	85.3	0.19	30%(+/-)	Yes
% with middle name	70.1	70.0	-0.15	30%(+/-)	Yes
% with last name	85.1	85.3	0.19	30%(+/-)	Yes
% with name suffix	1.7	1.7	-4.19	30%(+/-)	Yes
% male	52.8	51.7	-2.01	30%(+/-)	Yes
% female	32.3	33.5	3.79	30%(+/-)	Yes
% with credential	83.0	83.2	0.23	30%(+/-)	Yes
% with business name	14.9	14.3	-4.12	30%(+/-)	Yes
% with address line 1	100.0	99.6	-0.45	30%(+/-)	Yes
% with city	100.0	99.6	-0.45	30%(+/-)	Yes
% with state	100.0	99.6	-0.45	30%(+/-)	Yes
% state = claim file state code	75.9	73.2	-3.61	30%(+/-)	Yes
% with zip code	100.0	99.6	-0.45	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: OR

Produced: 02/28/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range <sup>a</sup>
% with primary taxonomy	99.9	97.7	-2.14	30%(+/-)	Yes
% with provider entity type = individual	85.1	85.3	0.19	30%(+/-)	Yes
% with provider entity type = organization	14.9	14.3	-4.12	30%(+/-)	Yes
<b>Provider IDs with or without NPI but linked to state provider file</b>					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
<b>Provider IDs with NPPES Primary Taxonomy</b>					
Number of provider IDs with NPPES primary taxonomy	40,442	41,446	2.48	30%(+/-)	Yes
% individual or group of individuals	87.2	87.6	0.52	30%(+/-)	Yes
% allopathic and osteopathic physicians	55.4	55.8	0.64	30%(+/-)	Yes
% behavioral health and social service providers	2.7	2.9	8.01	30%(+/-)	Yes
% chiropractic providers	0.7	0.6	-2.87	30%(+/-)	Yes
% dental providers	4.9	5.1	3.66	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.2	17.72	30%(+/-)	Yes
% emergency medical service providers	0.1	0.1	-20.90	30%(+/-)	Yes
% eye and vision service providers	2.1	2.0	-0.88	30%(+/-)	Yes
% nursing service providers	1.3	1.0	-20.26	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	-60.00	30%(+/-)	Yes
% other service providers	3.6	3.0	-16.64	30%(+/-)	Yes
% pharmacy service providers	0.2	0.1	-42.86	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	9.9	11.1	12.16	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.7	0.7	-5.09	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.4	3.6	7.28	30%(+/-)	Yes
% speech, language, and hearing service providers	1.0	0.9	-2.39	30%(+/-)	Yes
% student health care	0.4	0.3	-28.03	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.1	-23.88	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	12.8	12.4	-3.53	30%(+/-)	Yes
% agencies	1.1	1.0	-9.41	30%(+/-)	Yes
% ambulatory health care facilities	2.1	1.8	-12.72	30%(+/-)	Yes
% hospital units	0.1	0.1	-6.03	30%(+/-)	Yes
% hospitals	0.8	0.8	1.96	30%(+/-)	Yes
% laboratories	0.7	0.8	8.65	30%(+/-)	Yes
% managed care organizations	0.0	0.0	-2.50	30%(+/-)	Yes
% nursing and custodial care facilities	0.8	0.8	-3.61	30%(+/-)	Yes
% residential treatment facilities	0.4	0.4	-4.49	30%(+/-)	Yes
% respite care facility	0.0	0.0	-58.33	30%(+/-)	Yes
% suppliers	5.7	5.6	-2.59	30%(+/-)	Yes
% transportation services	1.0	1.1	5.11	30%(+/-)	Yes
% nonmedical	0.0	0.0	Div by 0	N/A	N/A
<b>Provider IDs with Entity Type = Individual</b>					
Number of provider IDs with entity type = individual	34,375	36,153	5.17	30%(+/-)	Yes
% a sole proprietorship	17.0	17.3	1.70	30%(+/-)	Yes
% not a sole proprietorship	73.5	76.1	3.62	30%(+/-)	Yes
% not answered	9.5	6.5	-31.11	N/A	N/A
<b>Provider IDs with Entity Type = Organization</b>					
Number of provider IDs with entity type = organization	6,019	6,058	0.65	30%(+/-)	Yes
% organization is a subpart	12.7	13.6	7.02	30%(+/-)	Yes
% organization is not a subpart	66.5	70.8	6.48	30%(+/-)	Yes
% not answered	20.8	15.6	-24.98	N/A	N/A

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

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