

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

**State-Specific Validation Tables,
2010**

Washington

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

This page has been left blank for double-sided copying.

Contract Number:
HHSM-500-2005-00025I

Task Number:
HHSM-500-T0002

Mathematica Reference Number:
06759.660

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

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

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

**State-Specific Validation Tables,
2010**

Washington

May 31, 2013

Deo Bencio
Mei-ling Mason

MATHEMATICA
Policy Research

This page has been left blank for double-sided copying.

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

This page has been left blank for double-sided copying.

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: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
IP Providers					
Number of provider IDs	682	517	-24.19	30% (+/-)	Yes
% billing provider on IP claim	67.2	52.0	-22.52	N/A	N/A
% NPI billing provider on IP claim	32.8	48.5	47.81	N/A	N/A
% also a provider on LT claim	4.8	4.6	-4.07	N/A	N/A
% also a provider on OT claim	81.8	79.3	-3.07	N/A	N/A
% also a provider on RX claim	2.9	7.4	150.60	N/A	N/A
% provider IDs with NPI	79.9	95.7	19.81	30% (+/-)	Yes
% provider IDs linked to NPPES	79.9	95.7	19.81	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	361.8	447.7	23.76	30% (+/-)	Yes
average number of beneficiaries with IP claims	277.6	330.8	19.15	30% (+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	545	495	-9.17	30% (+/-)	Yes
% NPI source = MSIS	99.8	100.0	0.18	30% (+/-)	Yes
% NPI source = NPPES	0.2	0.0	-100.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	545	495	-9.17	30% (+/-)	Yes
% linked via NPI	99.8	100.0	0.18	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.2	0.0	-100.00	30% (+/-)	Yes
% with name prefix	0.4	0.0	-100.00	30% (+/-)	Yes
% with first name	1.3	0.0	-100.00	30% (+/-)	Yes
% with middle name	1.1	0.0	-100.00	30% (+/-)	Yes
% with last name	1.3	0.0	-100.00	30% (+/-)	Yes
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	1.1	0.0	-100.00	30% (+/-)	Yes
% female	0.2	0.0	-100.00	30% (+/-)	Yes
% with credential	1.1	0.0	-100.00	30% (+/-)	Yes
% with business name	98.7	100.0	1.30	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	63.3	43.2	-31.71	30% (+/-)	No
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.6	99.6	-0.04	30% (+/-)	Yes
% with provider entity type = individual	1.3	0.0	-100.00	30% (+/-)	Yes
% with provider entity type = organization	98.7	100.0	1.30	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	543	493	-9.21	30% (+/-)	Yes
% individual or group of individuals	2.4	0.0	-100.00	30% (+/-)	Yes
% allopathic and osteopathic physicians	1.8	0.0	-100.00	30% (+/-)	Yes
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX IP Billing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

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	0.4	0.0	-100.00	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% physician assistants and advanced practice nursing providers	0.2	0.0	-100.00	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	97.6	100.0	2.45	30% (+/-)	Yes
% agencies	0.4	0.4	10.33	30% (+/-)	Yes
% ambulatory health care facilities	1.3	0.8	-37.08	30% (+/-)	Yes
% hospital units	7.7	6.5	-16.08	30% (+/-)	Yes
% hospitals	87.8	92.3	5.06	30% (+/-)	Yes
% laboratories	0.2	0.0	-100.00	30% (+/-)	Yes
% managed care organizations	0.2	0.0	-100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	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	7	0	-100.00	30% (+/-)	Yes
% a sole proprietorship	0.0	0.0	Div by 0	30% (+/-)	N/A
% not a sole proprietorship	100.0	0.0	-100.00	30% (+/-)	No
% 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	538	495	-7.99	30% (+/-)	Yes
% organization is a subpart	12.6	11.3	-10.49	30% (+/-)	Yes
% organization is not a subpart	82.5	84.2	2.08	30% (+/-)	Yes
% not answered	4.8	4.4	-8.05	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: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
LT Providers					
Number of provider IDs	798	552	-30.83	30% (+/-)	No
% billing provider on LT claim	66.3	51.3	-22.66	N/A	N/A
% NPI billing provider on LT claim	33.7	48.9	45.10	N/A	N/A
% also a provider on IP claim	4.1	4.3	5.15	N/A	N/A
% also a provider on OT claim	10.2	41.1	305.15	N/A	N/A
% also a provider on RX claim	1.0	1.8	80.66	N/A	N/A
% provider IDs with NPI	81.1	55.8	-31.18	30% (+/-)	No
% provider IDs linked to NPPES	81.0	55.8	-31.07	30% (+/-)	No
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of LT claims	645.7	1,314.6	103.60	30% (+/-)	No
average number of beneficiaries with LT claims	75.9	102.0	34.36	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	647	308	-52.40	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	646	308	-52.32	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 = LT state code	98.1	92.2	-6.05	30% (+/-)	Yes
% with zip code	100.0	100.0	0.00	30% (+/-)	Yes
% with primary taxonomy	99.7	98.1	-1.64	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	644	302	-53.11	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 eExtract (MAX) Provider Characteristics Files, 2009-2010.

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

2009-2010 MAX LT Billing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

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	0.3	0.0	-100.00	30% (+/-)	Yes
% ambulatory health care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospital units	7.8	9.6	23.69	30% (+/-)	Yes
% hospitals	3.6	7.6	113.27	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	88.4	82.5	-6.68	30% (+/-)	Yes
% residential treatment facilities	0.0	0.3	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	646	308	-52.32	30% (+/-)	No
% organization is a subpart	16.6	18.2	9.77	30% (+/-)	Yes
% organization is not a subpart	68.3	67.2	-1.55	30% (+/-)	Yes
% not answered	15.2	14.6	-3.69	N/A	N/A

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

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

2009-2010 MAX OT Servicing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	94,013	68,491	-27.15	30% (+/-)	Yes
% billing provider on OT claim	20.7	12.2	-40.95	N/A	N/A
% servicing provider on OT claim	67.7	51.3	-24.24	N/A	N/A
% NPI servicing provider on OT claim	32.3	49.7	54.04	N/A	N/A
% also a provider on IP claim	0.5	0.6	13.66	N/A	N/A
% also a provider on LT claim	0.1	0.3	284.81	N/A	N/A
% also a provider on RX claim	18.9	31.6	66.76	N/A	N/A
% provider IDs with NPI	79.1	99.0	25.06	30% (+/-)	Yes
% provider IDs linked to NPPES	78.7	98.5	25.22	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	706.9	1,273.9	80.20	30% (+/-)	No
average number of beneficiaries with OT claims	150.8	207.2	37.44	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	74,401	67,788	-8.89	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	73,945	67,455	-8.78	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	23.7	30.0	26.79	30% (+/-)	Yes
% with first name	65.8	82.3	25.04	30% (+/-)	Yes
% with middle name	53.5	66.5	24.34	30% (+/-)	Yes
% with last name	65.8	82.3	25.04	30% (+/-)	Yes
% with name suffix	1.2	1.5	19.82	30% (+/-)	Yes
% male	39.6	48.1	21.25	30% (+/-)	Yes
% female	26.2	34.3	30.78	30% (+/-)	No
% with credential	62.4	78.1	25.18	30% (+/-)	Yes
% with business name	34.2	17.4	-49.06	30% (+/-)	No
% with address line 1	100.0	99.7	-0.27	30% (+/-)	Yes
% with city	100.0	99.7	-0.27	30% (+/-)	Yes
% with state	100.0	99.7	-0.27	30% (+/-)	Yes
% state = OT state code	86.4	81.9	-5.24	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.27	30% (+/-)	Yes
% with primary taxonomy	99.1	98.7	-0.46	30% (+/-)	Yes
% with provider entity type = individual	65.8	82.3	25.04	30% (+/-)	Yes
% with provider entity type = organization	34.2	17.4	-49.06	30% (+/-)	No
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	73,583	66,547	-9.56	30% (+/-)	Yes
% individual or group of individuals	82.7	89.1	7.81	30% (+/-)	Yes
% allopathic and osteopathic physicians	53.4	54.4	1.85	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: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.9	1.5	59.17	30% (+/-)	Yes
% chiropractic providers	0.1	0.2	107.08	30% (+/-)	Yes
% dental providers	4.8	6.2	27.78	30% (+/-)	Yes
% dietary and nutritional service providers	0.2	0.4	73.27	30% (+/-)	Yes
% emergency medical service providers	0.1	0.0	-55.56	30% (+/-)	Yes
% eye and vision service providers	2.7	2.7	-0.59	30% (+/-)	Yes
% nursing service providers	0.2	0.3	17.70	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	2.4	2.4	-0.17	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	27.27	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	10.1	12.9	27.43	30% (+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	-6.39	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.7	5.7	20.41	30% (+/-)	Yes
% speech, language, and hearing service providers	1.3	1.4	11.05	30% (+/-)	Yes
% student health care	0.0	0.2	686.36	30% (+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	-19.64	30% (+/-)	Yes
% group of individuals with multi- or single specialty	0.7	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	17.3	10.9	-37.28	30% (+/-)	No
% agencies	1.2	1.4	15.06	30% (+/-)	Yes
% ambulatory health care facilities	6.7	2.7	-60.31	30% (+/-)	Yes
% hospital units	0.1	0.0	-28.36	30% (+/-)	Yes
% hospitals	2.3	1.5	-35.78	30% (+/-)	Yes
% laboratories	0.5	0.4	-17.88	30% (+/-)	Yes
% managed care organizations	1.7	0.0	-98.40	30% (+/-)	Yes
% nursing and custodial care facilities	0.1	0.2	187.04	30% (+/-)	Yes
% residential treatment facilities	0.1	0.1	52.31	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	4.1	4.0	-1.96	30% (+/-)	Yes
% transportation services	0.7	0.6	-8.04	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	48,680	55,529	14.07	30% (+/-)	Yes
% a sole proprietorship	15.7	14.6	-6.99	30% (+/-)	Yes
% not a sole proprietorship	78.2	80.4	2.84	30% (+/-)	Yes
% not answered	6.2	5.1	-18.14	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	25,265	11,741	-53.53	30% (+/-)	No
% organization is a subpart	12.3	13.6	10.65	30% (+/-)	Yes
% organization is not a subpart	74.8	69.5	-7.12	30% (+/-)	Yes
% not answered	12.9	16.9	31.11	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: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
OT Providers					
Number of provider IDs	23,018	9,573	-58.41	30% (+/-)	No
% billing provider on OT claim	100.0	100.0	0.00	N/A	N/A
% servicing provider on OT claim	84.4	87.1	3.14	N/A	N/A
% NPI servicing provider on OT claim	0.0	0.4	3,353.85	N/A	N/A
% also a provider on IP claim	1.6	2.3	39.95	N/A	N/A
% also a provider on LT claim	0.2	1.1	442.65	N/A	N/A
% also a provider on RX claim	6.8	9.5	38.83	N/A	N/A
% provider IDs with NPI	45.8	83.5	82.55	30% (+/-)	No
% provider IDs linked to NPPES	45.5	83.5	83.35	30% (+/-)	No
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of OT claims	1,953.2	5,571.0	185.22	30% (+/-)	No
average number of beneficiaries with OT claims	335.3	556.8	66.08	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	10,532	7,996	-24.08	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.01	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	-100.00	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	10,478	7,990	-23.74	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.01	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	-100.00	30% (+/-)	Yes
% with name prefix	17.5	17.8	1.24	30% (+/-)	Yes
% with first name	30.1	29.4	-2.30	30% (+/-)	Yes
% with middle name	26.4	25.6	-3.05	30% (+/-)	Yes
% with last name	30.1	29.4	-2.30	30% (+/-)	Yes
% with name suffix	0.6	0.6	-6.93	30% (+/-)	Yes
% male	21.6	20.8	-3.47	30% (+/-)	Yes
% female	8.5	8.6	0.66	30% (+/-)	Yes
% with credential	29.4	28.6	-2.74	30% (+/-)	Yes
% with business name	69.9	70.2	0.47	30% (+/-)	Yes
% with address line 1	100.0	99.6	-0.36	30% (+/-)	Yes
% with city	100.0	99.6	-0.36	30% (+/-)	Yes
% with state	100.0	99.6	-0.36	30% (+/-)	Yes
% state = OT state code	91.4	87.6	-4.21	30% (+/-)	Yes
% with zip code	100.0	99.6	-0.36	30% (+/-)	Yes
% with primary taxonomy	99.0	98.3	-0.69	30% (+/-)	Yes
% with provider entity type = individual	30.1	29.4	-2.30	30% (+/-)	Yes
% with provider entity type = organization	69.9	70.2	0.47	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	10,389	7,855	-24.39	30% (+/-)	Yes
% individual or group of individuals	57.7	56.2	-2.53	30% (+/-)	Yes
% allopathic and osteopathic physicians	25.5	22.6	-11.54	30% (+/-)	Yes

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

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

2009-2010 MAX OT Billing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	1.6	2.2	37.80	30% (+/-)	Yes
% chiropractic providers	0.3	0.6	149.60	30% (+/-)	Yes
% dental providers	8.9	13.1	47.16	30% (+/-)	No
% dietary and nutritional service providers	0.1	0.1	10.34	30% (+/-)	Yes
% emergency medical service providers	0.0	0.0	-66.67	30% (+/-)	Yes
% eye and vision service providers	5.2	4.9	-7.05	30% (+/-)	Yes
% nursing service providers	0.7	0.5	-28.09	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	3.3	3.7	11.76	30% (+/-)	Yes
% pharmacy service providers	0.1	0.1	45.98	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	2.3	1.9	-17.16	30% (+/-)	Yes
% podiatric medicine and surgery service providers	2.0	1.5	-26.22	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	3.8	3.5	-9.16	30% (+/-)	Yes
% speech, language, and hearing service providers	1.5	1.5	-0.78	30% (+/-)	Yes
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.2	0.1	-30.60	30% (+/-)	Yes
% group of individuals with multi- or single specialty	2.2	0.0	-100.00	30% (+/-)	Yes
% nonindividuals	42.3	43.8	3.45	30% (+/-)	Yes
% agencies	3.9	5.6	43.99	30% (+/-)	Yes
% ambulatory health care facilities	10.3	10.8	4.09	30% (+/-)	Yes
% hospital units	0.2	0.1	-27.46	30% (+/-)	Yes
% hospitals	4.6	6.1	32.79	30% (+/-)	Yes
% laboratories	1.4	1.5	5.23	30% (+/-)	Yes
% managed care organizations	1.2	0.1	-91.72	30% (+/-)	Yes
% nursing and custodial care facilities	0.2	0.1	-73.58	30% (+/-)	Yes
% residential treatment facilities	0.3	0.4	41.58	30% (+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	17.4	16.6	-4.48	30% (+/-)	Yes
% transportation services	2.7	2.4	-10.72	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	3,157	2,352	-25.50	30% (+/-)	Yes
% a sole proprietorship	53.4	55.4	3.81	30% (+/-)	Yes
% not a sole proprietorship	37.4	35.8	-4.30	30% (+/-)	Yes
% not answered	9.2	8.8	-4.65	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	7,321	5,609	-23.38	30% (+/-)	Yes
% organization is a subpart	14.0	13.6	-2.84	30% (+/-)	Yes
% organization is not a subpart	69.1	69.4	0.45	30% (+/-)	Yes
% not answered	16.9	17.0	0.50	N/A	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	3,673	2,609	-28.97	30% (+/-)	Yes
% billing provider on RX claim	72.3	52.7	-27.09	N/A	N/A
% prescribing provider on RX claim	0.0	15.8	58,385.19	N/A	N/A
% NPI billing provider on RX claim	27.7	47.3	70.65	N/A	N/A
% also a provider on IP claim	0.3	0.7	99.39	N/A	N/A
% also a provider on LT claim	0.2	0.2	41.10	N/A	N/A
% also a provider on OT claim	57.0	67.2	17.97	N/A	N/A
% provider IDs with NPI	70.6	96.3	36.44	30% (+/-)	No
% provider IDs linked to NPPES	69.9	96.3	37.71	30% (+/-)	No
% provider IDs with or without NPI but linked to state provider file	0.0	0.0	Div by 0	N/A	N/A
average number of RX claims	4,369.0	8,378.2	91.76	30% (+/-)	No
average number of beneficiaries with RX claims	488.6	642.5	31.49	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	2,592	2,512	-3.09	30% (+/-)	Yes
% NPI source = MSIS	100.0	100.0	0.00	30% (+/-)	Yes
% NPI source = NPPES	0.0	0.0	Div by 0	30% (+/-)	N/A
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	2,568	2,512	-2.18	30% (+/-)	Yes
% linked via NPI	100.0	100.0	0.00	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.0	Div by 0	30% (+/-)	N/A
% linked via Medicare UPIN	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name prefix	0.0	0.0	Div by 0	30% (+/-)	N/A
% with first name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with middle name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with last name	0.0	0.0	Div by 0	30% (+/-)	N/A
% with name suffix	0.0	0.0	Div by 0	30% (+/-)	N/A
% male	0.0	0.0	Div by 0	30% (+/-)	N/A
% female	0.0	0.0	Div by 0	30% (+/-)	N/A
% with credential	0.0	0.0	Div by 0	30% (+/-)	N/A
% with business name	100.0	99.1	-0.88	30% (+/-)	Yes
% with address line 1	100.0	99.1	-0.88	30% (+/-)	Yes
% with city	100.0	99.1	-0.88	30% (+/-)	Yes
% with state	100.0	99.1	-0.88	30% (+/-)	Yes
% state = RX state code	94.1	91.1	-3.19	30% (+/-)	Yes
% with zip code	100.0	99.1	-0.88	30% (+/-)	Yes
% with primary taxonomy	99.5	97.8	-1.65	30% (+/-)	Yes
% with provider entity type = individual	0.0	0.0	Div by 0	30% (+/-)	N/A
% with provider entity type = organization	100.0	99.1	-0.88	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	2,571	2,457	-4.43	30% (+/-)	Yes
% individual or group of individuals	0.4	2.0	365.89	30% (+/-)	Yes
% allopathic and osteopathic physicians	0.0	0.0	Div by 0	30% (+/-)	N/A

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

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

2009-2010 MAX RX Billing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dietary and nutritional service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% emergency medical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% eye and vision service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% pharmacy service providers	0.4	2.0	356.54	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% podiatric medicine and surgery service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% speech, language, and hearing service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% student health care	0.0	0.0	Div by 0	30% (+/-)	N/A
% technologists, technicians, and other technical service providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% group of individuals with multi- or single specialty	0.0	0.0	Div by 0	30% (+/-)	N/A
% nonindividuals	99.6	98.0	-1.57	30% (+/-)	Yes
% agencies	0.2	0.3	82.69	30% (+/-)	Yes
% ambulatory health care facilities	0.7	0.7	-1.14	30% (+/-)	Yes
% hospital units	0.0	0.0	Div by 0	30% (+/-)	N/A
% hospitals	0.0	0.2	317.95	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	0.1	0.0	-47.44	30% (+/-)	Yes
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	98.6	96.8	-1.80	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	2,568	2,490	-3.04	30% (+/-)	Yes
% organization is a subpart	26.5	22.8	-13.86	30% (+/-)	Yes
% organization is not a subpart	68.5	71.3	4.07	30% (+/-)	Yes
% not answered	5.0	5.9	17.64	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: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
RX Providers					
Number of provider IDs	46,353	64,279	38.67	30% (+/-)	No
% 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	0.0	0.6	Div by 0	N/A	N/A
% also a provider on IP claim	0.0	0.0	100.00	N/A	N/A
% also a provider on LT claim	0.0	0.0	50.00	N/A	N/A
% also a provider on OT claim	33.9	31.5	-7.10	N/A	N/A
% provider IDs with NPI	33.7	31.8	-5.58	30% (+/-)	Yes
% provider IDs linked to NPPES	33.6	31.8	-5.36	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	67.4	278.0	312.26	30% (+/-)	No
average number of beneficiaries with RX claims	14.0	38.6	176.30	30% (+/-)	No
Provider IDs with NPI					
Number of provider IDs with NPI	15,602	20,428	30.93	30% (+/-)	No
% NPI source = MSIS	99.7	99.5	-0.29	30% (+/-)	Yes
% NPI source = NPPES	0.3	0.5	108.37	30% (+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	15,565	20,428	31.24	30% (+/-)	No
% linked via NPI	99.7	99.5	-0.29	30% (+/-)	Yes
% linked via Medicaid legacy provider ID	0.2	0.5	120.35	30% (+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	21.88	30% (+/-)	Yes
% with name prefix	32.1	34.5	7.59	30% (+/-)	Yes
% with first name	95.9	96.5	0.67	30% (+/-)	Yes
% with middle name	77.4	78.0	0.86	30% (+/-)	Yes
% with last name	95.9	96.5	0.67	30% (+/-)	Yes
% with name suffix	1.7	1.7	0.93	30% (+/-)	Yes
% male	57.8	57.4	-0.57	30% (+/-)	Yes
% female	38.1	39.1	2.55	30% (+/-)	Yes
% with credential	91.3	92.1	0.86	30% (+/-)	Yes
% with business name	4.1	3.2	-22.49	30% (+/-)	Yes
% with address line 1	100.0	99.7	-0.28	30% (+/-)	Yes
% with city	100.0	99.7	-0.28	30% (+/-)	Yes
% with state	100.0	99.7	-0.28	30% (+/-)	Yes
% state = RX state code	90.7	86.1	-5.12	30% (+/-)	Yes
% with zip code	100.0	99.7	-0.28	30% (+/-)	Yes
% with primary taxonomy	99.4	98.8	-0.55	30% (+/-)	Yes
% with provider entity type = individual	95.9	96.5	0.67	30% (+/-)	Yes
% with provider entity type = organization	4.1	3.2	-22.49	30% (+/-)	Yes
Provider IDs with or without NPI but linked to state provider file					
Number of provider IDs with or without NPI linked to state provider file	0	0	Div by 0	N/A	N/A
Provider IDs with NPPES Primary Taxonomy					
Number of provider IDs with NPPES primary taxonomy	15,483	20,191	30.41	30% (+/-)	No
% individual or group of individuals	95.3	97.6	2.37	30% (+/-)	Yes
% allopathic and osteopathic physicians	67.4	66.2	-1.76	30% (+/-)	Yes

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

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

2009-2010 MAX RX Prescribing Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% behavioral health and social service providers	0.1	0.1	90.38	30% (+/-)	Yes
% chiropractic providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% dental providers	5.3	7.2	36.06	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	15.38	30% (+/-)	Yes
% eye and vision service providers	2.3	2.9	24.11	30% (+/-)	Yes
% nursing service providers	0.1	0.2	34.11	30% (+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30% (+/-)	N/A
% other service providers	1.7	2.1	24.65	30% (+/-)	Yes
% pharmacy service providers	0.0	0.0	483.33	30% (+/-)	Yes
% physician assistants and advanced practice nursing providers	17.1	17.3	1.03	30% (+/-)	Yes
% podiatric medicine and surgery service providers	1.2	1.1	-0.09	30% (+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	0.0	0.1	165.38	30% (+/-)	Yes
% speech, language, and hearing service providers	0.0	0.0	483.33	30% (+/-)	Yes
% student health care	0.0	0.2	373.33	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	4.7	2.4	-48.24	30% (+/-)	Yes
% agencies	0.0	0.0	5.26	30% (+/-)	Yes
% ambulatory health care facilities	3.8	0.2	-95.30	30% (+/-)	Yes
% hospital units	0.0	0.0	66.67	30% (+/-)	Yes
% hospitals	0.0	0.1	684.21	30% (+/-)	Yes
% laboratories	0.0	0.0	Div by 0	30% (+/-)	N/A
% managed care organizations	0.9	0.0	-100.00	30% (+/-)	Yes
% nursing and custodial care facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% residential treatment facilities	0.0	0.0	Div by 0	30% (+/-)	N/A
% respite care facility	0.0	0.0	Div by 0	30% (+/-)	N/A
% suppliers	0.0	2.1	34,066.67	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	14,927	19,722	32.12	30% (+/-)	No
% a sole proprietorship	14.3	14.1	-1.54	30% (+/-)	Yes
% not a sole proprietorship	80.0	81.1	1.34	30% (+/-)	Yes
% not answered	5.7	4.8	-14.96	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	638	649	1.72	30% (+/-)	Yes
% organization is a subpart	0.5	17.7	3,670.21	30% (+/-)	No
% organization is not a subpart	98.1	73.0	-25.56	30% (+/-)	Yes
% not answered	1.4	9.2	555.21	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 All Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
All Providers					
Number of provider IDs	130,650	114,956	-12.01	30%(+/-)	Yes
% billing provider on IP claim	0.4	0.2	-33.33	N/A	N/A
% NPI billing provider on IP claim	0.2	0.2	27.49	N/A	N/A
% billing provider on LT claim	0.4	0.2	-39.26	N/A	N/A
% NPI billing provider on LT claim	0.2	0.2	14.08	N/A	N/A
% billing provider on OT claim	17.6	8.3	-52.73	N/A	N/A
% servicing provider on OT claim	48.7	30.6	-37.28	N/A	N/A
% NPI servicing provider on OT claim	23.2	29.6	27.54	N/A	N/A
% billing provider on RX claim	2.0	1.2	-41.14	N/A	N/A
% prescribing provider on RX claim	35.5	55.9	57.60	N/A	N/A
% NPI billing provider on RX claim	0.8	1.1	37.74	N/A	N/A
% billing provider	19.0	8.9	-52.85	N/A	N/A
% NPI billing provider	1.1	1.5	31.97	N/A	N/A
% servicing provider	48.7	30.6	-37.28	N/A	N/A
% NPI servicing provider	23.2	29.6	27.54	N/A	N/A
% prescribing provider	35.5	55.9	57.60	N/A	N/A
% provider IDs with NPI	58.1	60.0	3.28	30%(+/-)	Yes
% provider IDs linked to NPPES	57.8	59.7	3.42	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 claims	705.1	1,143.2	62.14	30%(+/-)	No
average number of beneficiaries with claims	132.0	156.6	18.69	30%(+/-)	Yes
Provider IDs with NPI					
Number of provider IDs with NPI	75,927	68,998	-9.13	30%(+/-)	Yes
% NPI source = MSIS	99.9	99.8	-0.11	30%(+/-)	Yes
% NPI source = NPPES	0.1	0.2	200.00	30%(+/-)	Yes
% NPI source = state cross-reference file	0.0	0.0	Div by 0	N/A	N/A
Provider IDs Linked to NPPES					
Number of provider IDs linked to NPPES	75,458	68,665	-9.00	30%(+/-)	Yes
% linked via NPI	99.9	99.8	-0.11	30%(+/-)	Yes
% linked via Medicaid legacy provider ID	0.0	0.2	214.58	30%(+/-)	Yes
% linked via Medicare UPIN	0.0	0.0	71.43	30%(+/-)	Yes
% with name prefix	23.2	29.5	27.26	30%(+/-)	Yes
% with first name	64.6	81.0	25.50	30%(+/-)	Yes
% with middle name	52.4	65.4	24.77	30%(+/-)	Yes
% with last name	64.6	81.0	25.50	30%(+/-)	Yes
% with name suffix	1.2	1.4	20.15	30%(+/-)	Yes
% male	38.9	47.3	21.66	30%(+/-)	Yes
% female	25.7	33.7	31.31	30%(+/-)	No
% with credential	61.2	76.9	25.64	30%(+/-)	Yes
% with business name	35.4	18.7	-47.28	30%(+/-)	No
% with address line 1	100.0	99.7	-0.29	30%(+/-)	Yes
% with city	100.0	99.7	-0.29	30%(+/-)	Yes
% with state	100.0	99.7	-0.29	30%(+/-)	Yes
% state = claim file state code	86.5	81.9	-5.33	30%(+/-)	Yes
% with zip code	100.0	99.7	-0.29	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 All Provider Characteristics Validation Table

State: WA

Produced: 03/11/2013

Measure	2009 Value	2010 Value	% Change 2009-2010	Cross Year Expected Range	Cross Year Within Range ^a
% with primary taxonomy	99.1	98.6	-0.50	30%(+/-)	Yes
% with provider entity type = individual	64.6	81.0	25.50	30%(+/-)	Yes
% with provider entity type = organization	35.4	18.7	-47.28	30%(+/-)	No
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	75,105	67,724	-9.83	30%(+/-)	Yes
% individual or group of individuals	81.1	87.8	8.31	30%(+/-)	Yes
% allopathic and osteopathic physicians	52.3	53.6	2.34	30%(+/-)	Yes
% behavioral health and social service providers	0.9	1.4	59.75	30%(+/-)	Yes
% chiropractic providers	0.1	0.2	109.01	30%(+/-)	Yes
% dental providers	4.7	6.1	28.04	30%(+/-)	Yes
% dietary and nutritional service providers	0.2	0.4	73.24	30%(+/-)	Yes
% emergency medical service providers	0.1	0.0	-54.72	30%(+/-)	Yes
% eye and vision service providers	2.7	2.7	-0.15	30%(+/-)	Yes
% nursing service providers	0.2	0.3	18.07	30%(+/-)	Yes
% nursing service-related providers	0.0	0.0	Div by 0	30%(+/-)	N/A
% other service providers	2.3	2.3	0.04	30%(+/-)	Yes
% pharmacy service providers	0.0	0.1	159.38	30%(+/-)	Yes
% physician assistants and advanced practice nursing providers	9.9	12.7	27.88	30%(+/-)	Yes
% podiatric medicine and surgery service providers	0.9	0.9	-6.09	30%(+/-)	Yes
% respiratory, developmental, rehabilitative, and restorative service providers	4.6	5.6	20.82	30%(+/-)	Yes
% speech, language, and hearing service providers	1.3	1.4	11.36	30%(+/-)	Yes
% student health care	0.0	0.2	709.52	30%(+/-)	Yes
% technologists, technicians, and other technical service providers	0.1	0.0	-20.00	30%(+/-)	Yes
% group of individuals with multi- or single specialty	0.6	0.0	-100.00	30%(+/-)	Yes
% nonindividuals	18.9	12.2	-35.56	30%(+/-)	No
% agencies	1.2	1.4	15.47	30%(+/-)	Yes
% ambulatory health care facilities	6.6	2.6	-60.05	30%(+/-)	Yes
% hospital units	0.2	0.1	-24.05	30%(+/-)	Yes
% hospitals	2.4	1.6	-33.68	30%(+/-)	Yes
% laboratories	0.5	0.4	-17.62	30%(+/-)	Yes
% managed care organizations	1.7	0.0	-98.37	30%(+/-)	Yes
% nursing and custodial care facilities	0.8	0.4	-50.00	30%(+/-)	Yes
% residential treatment facilities	0.1	0.1	54.69	30%(+/-)	Yes
% respite care facility	0.0	0.0	Div by 0	30%(+/-)	N/A
% suppliers	5.0	5.0	-0.38	30%(+/-)	Yes
% transportation services	0.6	0.6	-7.89	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	48,719	55,639	14.20	30%(+/-)	Yes
% a sole proprietorship	15.7	14.6	-7.06	30%(+/-)	Yes
% not a sole proprietorship	78.2	80.4	2.85	30%(+/-)	Yes
% not answered	6.2	5.0	-18.24	N/A	N/A
Provider IDs with Entity Type = Organization					
Number of provider IDs with entity type = organization	26,739	12,829	-52.02	30%(+/-)	No
% organization is a subpart	12.6	13.4	6.29	30%(+/-)	Yes
% organization is not a subpart	74.5	69.9	-6.19	30%(+/-)	Yes
% not answered	12.9	16.7	29.58	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.

This page has been left blank for double-sided copying.

MATHEMATICA **Policy Research**

www.mathematica-mpr.com

Improving public well-being by conducting high-quality, objective research and surveys

Princeton, NJ ■ Ann Arbor, MI ■ Cambridge, MA ■ Chicago, IL ■ Oakland, CA ■ Washington, DC

Mathematica® is a registered trademark of Mathematica Policy Research