

Decennial Field Quality Monitoring

Overview and Update: 08/06/20

CIG Meeting

Presented by: Nick von Stein

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DFQM Goal

Monitor and analyze near real-time data to support field data collection:

 Increase efficiency of operations

 Improve data quality

DFQM NRFU Production & NRFU RI Outlier Metrics

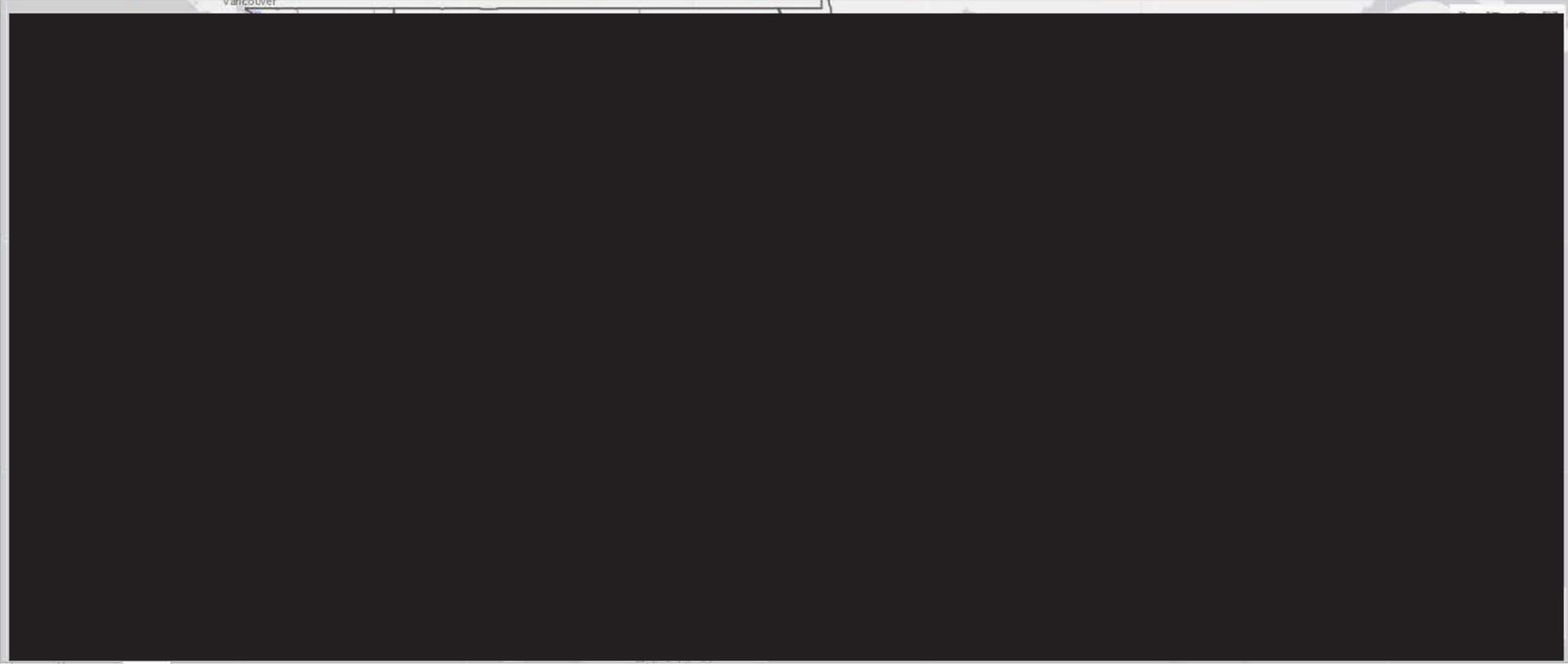
Metric Name	Calculation	Why this metric?
NRFU Completed Ratio	$\frac{\text{Total Complete}}{\text{NRFU Current Followup Wkld}}$	Measures progress in completing assigned NRFU workload
NRFU Deleted Ratio	$\frac{\text{Deleted Units}}{\text{Field Closed}}$	May indicate enumerators deleting cases rather than working them in order to save time
NRFU Enumerated Ratio	$\frac{\text{Total Enumerated}}{\text{NRFU Current Followup Wkld}}$	Measures progress in conducting an enumeration from assigned NRFU workload
NRFU Enumerated via Proxy Ratio	$\frac{\text{Enumerated via Proxy}}{\text{Total Enumerated}}$	Enumerators may act as proxy themselves, go to proxy too soon, or not use proxies when prompted. Proxy interviews may also be less reliable than HH enumerations. RTAD asked us to track this
Max Attempts Reached w/ Minimal Data Ratio	$\frac{\text{Max Att. Reached With Minimal Data}}{\text{Field Closed}}$	Enumerators may be going to close out procedures too quickly or not asking all survey questions
NRFU RI Cases in Reinterview Ratio	$\frac{\text{RI Current Followup Wkld}}{\text{NRFU Current Followup Wkld}}$	May indicate insufficient quality checks
NRFU RI Completed Ratio	$\frac{\text{RI Complete}}{\text{RI Current Followup Wkld}}$	Measures progress in completing assigned NRFU RI workload
NRFU RI Unresolved Ratio	$\frac{\text{\# Unresolved RI cases}}{\text{Total Complete in Reint}}$	RI cases that cannot be resolved cannot be used to verify original interviews, decreasing the efficacy of the RI operation, and reducing the ability to quality check

DFQM Metrics Dashboard: Outliers by CFSA

RCC	ACO	ACO Name	CFMA	CFSA	Workload	Total # Outliers	Completed Std. Score	Deleted Std. Score	Enumerated Std. Score	Enumerated via Proxy Std. Score	Max Attempts Min Data Std. Score	RI Cases in Reint Std. Score	RI Completed Std. Score	RI Unresolved Std. Score
2399	2362	Towson	3	9										
2599	2559	Chicago Central	2	3										
2399	2373	Harrisburg	6	9										
3199	3154	Aurora	4	2										
2299	2261	Worcester	4	7										
3199	3157	Denver	1	3										
2599	2567	Skokie	4	50										
2299	2294	Caguas	6	1										
2399	2364	Mansfield	1	6										
2299	2294	Caguas	7	11										
2399	2379	State College	3	6										
2399	2372	Cranberry Township	4	7										
3299	3261	Salem	1	6										
2299	2294	Caguas	6	2										
3299	3293	Everett	6	7										
2599	2572	Lake County	6	5										
2299	2295	Mayaguez	10	5										
2399	2364	Mansfield	1	8										
2299	2261	Worcester	3	5										
2599	2585	Green Bay	6	9										
2599	2585	Green Bay	5	8										

Total Outliers by CFSA

Selection	Total CFSA's	Completed	Deleted	Enumerated	Proxy	Max Attempts	Cases in RI	RI Completed	RI Unresolved
	94	21	8	18	13	9	26	3	22

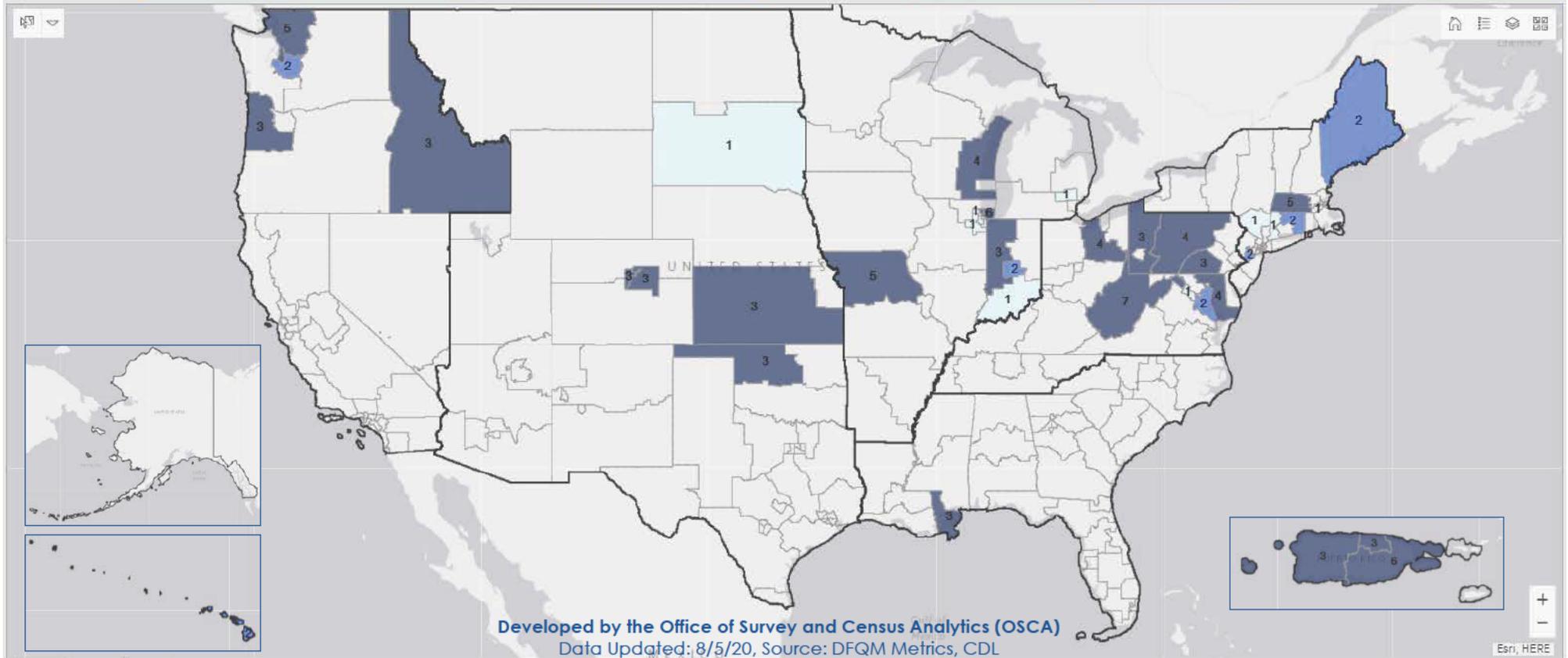


DFQM Metrics Dashboard: Outliers by RCC

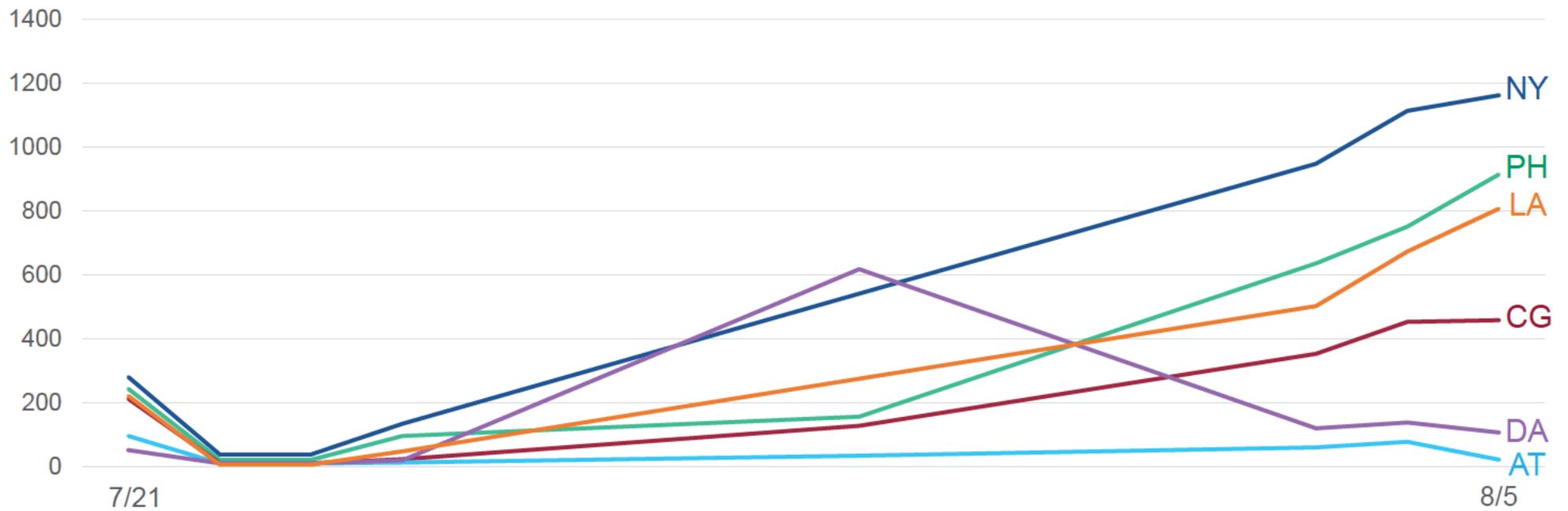
RCC	RCC Name	# of CFSAs	Total # Outliers	Completed # Outliers	Deleted # Outliers	Enumerated # Outliers	Enumerated via Proxy # Outliers	Max Attempts Min Data # Outliers	RI Cases in Reint # Outliers	RI Completed # Outliers	RI Unresolved # Outliers
2399	Philadelphia	22	30	3	4	5	2	4	6	0	6
2599	Chicago	24	29	7	0	3	4	3	6	0	6
2299	New York	19	26	7	0	8	2	1	4	0	4
3299	Los Angeles	17	19	1	2	1	4	0	6	2	3
3199	Dallas	9	13	3	1	1	1	0	3	1	3
2999	Atlanta	3	3	0	1	0	0	1	1	0	0
	Total	94	120	21	8	18	13	9	26	3	22

Total Outliers by ACO

Selection	Total CFSAs	Completed	Deleted	Enumerated	Proxy	Max Attempts	Cases in RI	RI Completed	RI Unresolved
	94	21	8	18	13	9	26	3	22



Open State Alerts by RCC



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Developed by the Office of Survey and Census Analytics (OSCA)
Data Updated: 8/5/20, Source: MOJO Hermes

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Assessments and Observations

NRFU Phase	*Need Observations (Failed Assessment)	Completed Observations	Incomplete Observations	Failed Observations	Total "Observed" from LMS	Percent of Failed with Observation Recorded in LMS	**Observation Forms Received
1a	825	363	11	1	375	45.45%	81
1b	344	75	0	3	78	22.67%	94
2	2541	133	0	3	136	5.35%	25
3	287	0	0	0	0	0.00%	0
prod	1154	16	1	0	17	1.47%	14
Grand Total	5151	587	12	7	606	11.76%	214

*Active enumerators in LMS

**Number of 'Observation Forms Received' can be greater than 'Total Observed from LMS' due to underreporting in LMS.

Questions?

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DFQM Metrics Dashboard: Outliers by ACO / Phase

Phase 1a

RCC	ACO	ACO Name	# of CFSAs	Total # Outliers	Completed # Outliers	Deleted # Outliers	Enumerated # Outliers	Enumerated via Proxy # Outliers	Max Attempts Min Data # Outliers	RI Cases in Reint # Outliers	RI Completed # Outliers	RI Unresolved # Outliers
2399	2390	Beckley	7	7	0	2	1	1	2	1	0	0
2599	2581	Kansas City	5	5	0	0	0	2	1	1	0	1
3299	3256	Boise	3	3	0	1	0	1	0	0	0	1
3199	3167	Oklahoma County	3	3	0	0	0	0	0	1	1	1
2999	2990	New Orleans	3	3	0	1	0	0	1	1	0	0
2299	2262	Gardiner	2	2	0	0	0	0	0	0	0	2
Grand Total			23	23	0	4	1	4	4	4	1	5

DFQM Metrics Dashboard: Outliers by ACO / Phase

Phase 1b

RCC	ACO	ACO Name	# of CFSAs	Total # Outliers	Completed # Outliers	Deleted # Outliers	Enumerated # Outliers	Enumerated via Proxy # Outliers	Max Attempts Min Data # Outliers	RI Cases in Reint # Outliers	RI Completed # Outliers	RI Unresolved # Outliers
2399	2379	State College	3	4	0	1	0	1	0	1	0	1
3199	3159	Wichita	3	3	0	1	0	1	0	0	0	1
3299	3297	Tacoma	2	2	0	1	0	0	0	1	0	0
2299	2254	Hartford	2	2	0	0	0	2	0	0	0	0
2399	2384	Crystal City, VA	2	2	0	1	0	0	0	1	0	0
2599	2569	Evansville	1	1	0	0	0	1	0	0	0	0
Grand Total			13	14	0	4	0	5	0	3	1	5

Phase 2

Pre-decisional – Internal Use Only – Not for Public Distribution

RCC	ACO	ACO Name	# of CFSAs	Total # Outliers	Completed # Outliers	Deleted # Outliers	Enumerated # Outliers	Enumerated via Proxy # Outliers	Max Attempts Min Data # Outliers	RI Cases in Reint # Outliers	RI Completed # Outliers	RI Unresolved # Outliers
2599	2559	Chicago Central	4	6	2	0	1	1	1	1	0	0
2299	2294	Caguas	3	6	2	0	3	0	0	1	0	0
2299	2261	Worcester	2	5	2	0	1	0	0	2	0	0
3299	3293	Everett	4	5	1	0	0	0	0	2	1	1
2399	2362	Towson	2	4	1	0	1	0	0	1	0	1
2599	2585	Green Bay	3	4	2	0	1	0	0	0	0	1
2599	2567	Skokie	3	4	1	0	1	0	1	1	0	0
2399	2364	Mansfield	2	4	1	0	1	0	1	0	0	1
3299	3295	Seattle	4	4	0	0	0	1	0	1	1	1
2599	2572	Lake County	2	3	1	0	0	0	0	2	0	0
2299	2293	Guaynabo	3	3	0	0	2	0	0	1	0	0
3199	3157	Denver	1	3	1	0	1	0	0	1	0	0
3199	3154	Aurora	1	3	1	0	0	0	0	1	0	1
2399	2372	Cranberry Township	2	3	1	0	1	0	1	0	0	0
2399	2373	Harrisburg	1	3	0	0	1	0	0	1	0	1
2299	2295	Mayaguez	2	3	2	0	1	0	0	0	0	0
2599	2571	Indianapolis	2	2	0	0	0	0	0	1	0	1
2299	2271	Trenton	2	2	0	0	0	0	0	0	0	2
2399	2359	Hanover	2	2	0	0	0	0	0	1	0	1
3299	3255	Honolulu	2	2	0	0	0	1	0	1	0	0
2299	2253	Danbury	1	1	0	0	1	0	0	0	0	0
2599	2560	Chicago Far Southwest	1	1	0	0	0	0	0	0	0	1
2299	2258	Quincy	1	1	0	0	0	0	1	0	0	0
2599	2562	Cook County NW	1	1	0	0	0	0	0	0	0	1
2599	2565	Owsego	1	1	0	0	0	0	0	0	0	1
Grand Total			52	76	18	0	16	3	5	18	2	14

DFQM Metrics Dashboard: Outliers by ACO / Phase

Phase 3												
RCC	ACO	ACO Name	# of CFSAs	Total # Outliers	Completed # Outliers	Deleted # Outliers	Enumerated # Outliers	Enumerated via Proxy # Outliers	Max Attempts Min Data # Outliers	RI Cases in Reint # Outliers	RI Completed # Outliers	RI Unresolved # Outliers
2399	2385	Fairfax	1	1	0	0	0	0	0	0	0	1
2299	2282	Pawling	1	1	1	0	0	0	0	0	0	0
2599	2577	Oakland County	1	1	1	0	0	0	0	0	0	0
Grand Total			3	3	2	0	0	0	0	0	0	1

DFQM Metrics Dashboard: Outliers by ACO / Phase

PROD												
RCC	ACO	ACO Name	# of CFSAs	Total # Outliers	Completed # Outliers	Deleted # Outliers	Enumerated # Outliers	Enumerated via Proxy # Outliers	Max Attempts Min Data # Outliers	RI Cases in Reint # Outliers	RI Completed # Outliers	RI Unresolved # Outliers
3299	3261	Salem	2	3	0	0	1	1	0	1	0	0
3199	3169	Sioux Falls	1	1	1	0	0	0	0	0	0	0
Grand Total			3	4	1	0	1	1	0	1	0	0

Assessments and Observations

Phase 1a									
RCC	ACO	ACO Name	*Need Observations (Failed Assessment)	Completed Observations	Incomplete Observations	Failed Observations	Total "Observed" from LMS	Percent of Failed with Observation Recorded in LMS	**Observation Forms Received
3299	3256	Boise	52	34	7	0	41	78.85%	50
2999	2990	New Orleans	141	110	1	0	111	78.72%	0
3199	3167	Oklahoma County	52	32	2	1	35	67.31%	31
2299	2262	Gardiner	97	51	0	0	51	52.58%	0
2399	2390	Beckley	331	104	1	0	105	31.72%	0
2599	2581	Kansas City	152	32	0	0	32	21.05%	0
Grand Total			825	363	11	1	375	45.45%	81

Assessments and Observations

Phase 1b									
RCC	ACO	ACO Name	*Need Observations (Failed Assessment)	Completed Observations	Incomplete Observations	Failed Observations	Total "Observed" from LMS	Percent of Failed with Observation Recorded in LMS	**Observation Forms Received
2299	2254	Hartford	57	24	0	3	27	47.37%	39
3199	3159	Wichita	57	18	0	0	18	31.58%	27
2599	2569	Evansville	76	20	0	0	20	26.32%	28
2399	2384	Crystal City	53	6	0	0	6	11.32%	0
3299	3297	Tacoma	54	6	0	0	6	11.11%	0
2399	2379	State College	47	1	0	0	1	2.13%	0
Grand Total			344	75	0	3	78	22.67%	94

Phase 2

Pre-decisional – Internal Use Only – Not for Public Distribution

RCC	ACO	ACO Name	*Need Observations (Failed Assessment)	Completed Observations	Incomplete Observations	Failed Observations	Total "Observed" from LMS	Percent of Failed with Observation Recorded in LMS	**Observation Forms Received
2299	2260	Waltham	62	27	0	1	28	45.16%	0
2599	2560	Chicago Far Southwest	45	15	0	0	15	33.33%	0
2599	2567	Skokie	70	11	0	0	11	15.71%	0
2299	2294	Caguas	184	23	0	0	23	12.50%	0
3199	3154	Aurora	19	2	0	0	2	10.53%	0
2599	2561	Chicago South	67	6	0	1	7	10.45%	0
2599	2563	Cook County South	142	14	0	0	14	9.86%	0
2599	2571	Indianapolis	78	6	0	0	6	7.69%	1
3299	3255	Honolulu	90	5	0	0	5	5.56%	2
3199	3157	Denver	58	3	0	0	3	5.17%	0
3299	3294	Olympia	42	1	0	1	2	4.76%	1
2299	2295	Mayaguez	266	9	0	0	9	3.38%	13
2299	2293	Guaynabo	129	4	0	0	4	3.10%	0
2599	2566	Peoria	80	2	0	0	2	2.50%	0
3299	3293	Everett	40	1	0	0	1	2.50%	0
3199	3162	Bismarck	49	1	0	0	1	2.04%	0
2399	2364	Mansfield	56	1	0	0	1	1.79%	0
2399	2373	Harrisburg	56	1	0	0	1	1.79%	0
2599	2559	Chicago Central	125	1	0	0	1	0.80%	0
2299	2253	Danbury	25	0	0	0	0	0.00%	1
2299	2258	Quincy	20	0	0	0	0	0.00%	0
2299	2261	Worcester	56	0	0	0	0	0.00%	0
2299	2271	Trenton	89	0	0	0	0	0.00%	6
2299	2276	Buffalo	24	0	0	0	0	0.00%	0
2599	2562	Cook County NW	68	0	0	0	0	0.00%	0
2599	2564	Dekalb	62	0	0	0	0	0.00%	0
2599	2565	Oswego	39	0	0	0	0	0.00%	0
2599	2572	Lake County	48	0	0	0	0	0.00%	0
2599	2585	Green Bay	32	0	0	0	0	0.00%	0
2399	2359	Hanover	171	0	0	0	0	0.00%	0
2399	2361	Hagerstown	48	0	0	0	0	0.00%	0
2399	2362	Towson	69	0	0	0	0	0.00%	0
2399	2372	Cranberry Township	49	0	0	0	0	0.00%	0
3199	3155	Colorado North	14	0	0	0	0	0.00%	1
3299	3295	Seattle	69	0	0	0	0	0.00%	0

Phase 3

Pre-decisional – Internal Use Only – Not for Public Distribution

RCC	ACO	ACO Name	*Need Observations (Failed Assessment)	Completed Observations	Incomplete Observations	Failed Observations	Total "Observed" from LMS	Percent of Failed with Observation Recorded in LMS	**Observation Forms Received
2299	2256	Boston	6	0	0	0	0	0%	0
2299	2257	Lawrence	5	0	0	0	0	0%	0
2299	2266	South Plainfield	10	0	0	0	0	0%	0
2299	2268	Newark	4	0	0	0	0	0%	0
2299	2272	Albany	1	0	0	0	0	0%	0
2299	2277	Queens 1	22	0	0	0	0	0%	0
2299	2283	Brooklyn 2	1	0	0	0	0	0%	0
2299	2284	Queens 2	30	0	0	0	0	0%	0
2299	2288	Brooklyn 3	2	0	0	0	0	0%	0
2299	2289	Queens 4	5	0	0	0	0	0%	0
2299	2290	Staten Island	21	0	0	0	0	0%	0
2299	2291	Syracuse	1	0	0	0	0	0%	0
2299	2296	Providence	1	0	0	0	0	0%	0
2599	2574	Lansing	13	0	0	0	0	0%	0
2599	2577	Oakland County	9	0	0	0	0	0%	0
2599	2579	Minneapolis	4	0	0	0	0	0%	0
2399	2355	Washington DC	16	0	0	0	0	0%	0
2399	2356	Wilmington	10	0	0	0	0	0%	0
2399	2371	Allentown	42	0	0	0	0	0%	0
2399	2374	Norristown	10	0	0	0	0	0%	0
2399	2375	Philadelphia-Franklin	7	0	0	0	0	0%	0
2399	2376	Philadelphia-Penn	2	0	0	0	0	0%	0
2399	2378	Reading	15	0	0	0	0	0%	0
2399	2385	Fairfax	21	0	0	0	0	0%	0
2399	2386	Fredericksburg	6	0	0	0	0	0%	0
2399	2389	Roanoke	23	0	0	0	0	0%	0
Grand Total			287	0	0	0	0	0%	0