

ART Gallery Report 0234

HPRP

Data Quality Report Part 2

EXECUTIVE SUMMARY:

This ART report is designed to monitor data quality by locating data which is missing, incorrect or inconsistent with other data for the same client or same household or which otherwise indicates deviations from the proscribed HPRP workflow. This report focuses on identifying potential/probable errors and incongruities specifically related to the HPRP QPR. Nine common data quality issues are identified:

1. Household members with a different housing status for the same entry
2. Clients with multiple services attached to a single need
3. Clients which have multiple housing status answers within the reporting period
4. Clients with a Service Household ID that does not match their Entry Exit Household ID
5. Clients with multiple program entries on the same day
6. Clients with multiple services with the same start date
7. Clients with multiple households related to their entry exits
8. Clients with missing gender or date of birth data
9. Clients with a service starting outside enrollment period
10. Clients with multiple households related to their services

As its name implies, this report is meant to be used in conjunction with report *0230 HPRP Data Quality Part 1*, which identifies a different subset of HPRP data quality issues known to occur. Issues on the *0230* report are tagged as error types B-I and issues identified on this report are tagged as error types J-S with detail displayed on report tabs labeled accordingly.

AUDIENCE:

This report is intended for use by Agency Administrators, by data entry staff, and/or by HMIS administrators responsible for monitoring data quality related to HPRP reporting. The report can be run at any provider level at or above the selected program(s).

FREQUENCY:

It is recommended that this report should be run at least monthly for each HPRP program.

PURPOSE:

The purpose of the report is to identify potential data entry errors and end-user workflow errors so that they can be corrected.

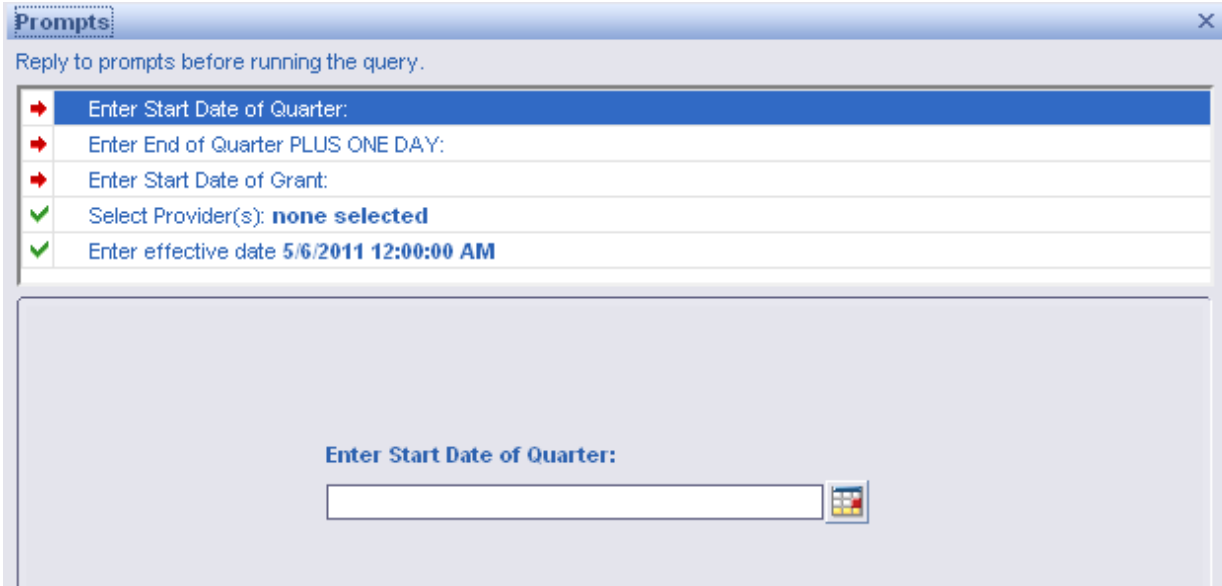
INSTRUCTIONS:

Instruction on how to retrieve, copy, run, and read this report is outlined below. Requests for additional information concerning the report function/design should be directed to Bowman Systems' staff via email (ART_Reports@BowmanSystems.com).

How to retrieve and copy: Detailed step-by-step instructions concerning how to retrieve and save a copy this ART Report to your personal system can be found on the Bowman ART website at (<http://www.BowmanSystems.com/ARTreports.html>)

How to install: The original version of this report will be permanently located in a read-only "ART Gallery" folder on your ART site. This original version of the report is a template and it must be copied into another folder and mapped to your data before it can be used. Detailed instructions for installing report templates are provided in the Bowman Documentation folder on your ART site.

How to read: Upon opening the report, the User will be prompted (see Diagram 1) to specify (or select) parameters which control the data returned by the report. Once the User has provided these parameters by responding to the user prompts, a green check-mark will appear next to each field to indicate that a valid selection has been made. The User should then single-click the "Run Query" button to generate the report.



The screenshot shows a 'Prompts' dialog box with a title bar and a close button. The main area contains a list of prompts, each with a red arrow icon on the left. The prompts are: 'Enter Start Date of Quarter:', 'Enter End of Quarter PLUS ONE DAY:', 'Enter Start Date of Grant:', 'Select Provider(s): none selected', and 'Enter effective date 5/6/2011 12:00:00 AM'. Below the list is a large empty rectangular area. At the bottom of this area, the text 'Enter Start Date of Quarter:' is displayed above a text input field and a small calendar icon.

Diagram 1

The five user prompts contained in this report are outlined below along with instruction on how each should be answered:

1. **Select Provider(s):** The user selects the program(s)/ provider(s) to include as the subject of the report.
2. **Enter End of Quarter PLUS ONE DAY:** The user should enter (or select from the calendar) the day immediately following the last day of the reporting quarter.
3. **Enter Start Date of Grant:** The user should enter (or select from the calendar) the day on which their HPRP grant began as contained in their HPRP contract.
4. **Enter Start Date of Quarter:** The user should enter (or select from the calendar) the first day of the reporting quarter.
5. **Enter effective date:** The user should enter (or select from the calendar) the day immediately following the last day of the reporting quarter

Alternative responses: In some cases a User may wish to search for quality issues within a single quarter or within a shorter period of time only. This can be accomplished by altering the responses to both the grant start date and the quarter start date to reflect the beginning of the desired date range and by altering the “Enter End of Quarter PLUS ONE DAY” response to correspond to the day immediately following the end of the desired date range.

How to read The report results consist of ten report tabs marked A, J-S:

Tab A is the main body of the report and summarizes the report’s results. It includes:

- a listing/description of the nine data quality issues covered in the report
- a summary of the number and percentage of issues identified
- a summary of the issues identified by client

Tabs J-S provide detail concerning the suspected errors that have been identified. Each of these Tabs corresponds to one of the ten issues/error types.

Tab T is an appendix which displays the User selected parameters and additional information and is provided as a reference for troubleshooting the report.

The individual tabs/contained in this report are further displayed/ further explained below:

HPRP
Data Quality Report Part 2
 Grant To Date: 7/1/09 - 6/30/10
 Quarter: 1/1/10 - 6/30/10

Tab	DATA QUALITY ISSUES IDENTIFIED IN THIS REPORT
J	Household Members with Different Housing Status for Same Entry
K	Clients with One Need and Multiple Services Attached to the Need
L	Clients which have Multiple Housing Status Answers Within the Period
M	Clients With a Different Service Household ID from Entry Exit Household ID
N	Clients with Multiple Entry Exits with Same Entry Date
O	Clients with Multiple Services with Same Start Date
P	Clients in Multiple Households (Related to their Entries)
Q	Clients with Missing Gender or Date of Birth (Part of Client Unique ID)
R	Clients with Services with a Service Start Outside Enrollment Period
S	Clients in Multiple Households (Related to their Services)

SUMMARY										
	J	K	L	M	N	O	P	Q	R	S
Total Clients	937	937	937	937	937	937	937	937	937	937
Clients Identified With This Issue	10	6	28	2	3	14	42	900	2	42
Percent Identified With This Issue	1.1%	0.6%	3.0%	0.2%	0.3%	1.5%	4.5%	96.1%	0.2%	4.5%

DETAIL BY CLIENT												
Percentage of clients identified with one or more of these issues= 98.2% (920 of 937)												
Client Uid	Household Uid	Group Uid	J Multiple Housing Status in Household	K One Need Multiple Services	L Multiple Housing Status Answers	M Different Svc Household to EE Household	N Multiple EEs with Same Entry Date	O Multiple Svcs with Same Start Date	P Multiple Hshlds Related to EEs	Q Missing Gender or Date of Birth	R Svc Start Date Outside Enrollment Period	S Multiple Hshlds Related to Svcs
1	338228		ok	ok	ok	ok	ok	ok	ok	Error?	ok	ok
2	338242	105858	1588542	ok	ok	Error?	ok	ok	ok	Error?	ok	ok
3	338242			ok	ok	Error?	ok	ok	ok	Error?	ok	ok
4	338244	105848	302044	ok	ok	ok	ok	ok	ok	Error?	ok	ok
5	338244	105848	1582935	ok	ok	ok	ok	ok	ok	Error?	ok	ok
6	338245	105848	302044	ok	ok	ok	ok	ok	ok	Error?	ok	ok
7	338245	105848	1582935	ok	ok	ok	ok	ok	ok	Error?	ok	ok
8	338246	105848	302044	ok	ok	ok	ok	ok	ok	Error?	ok	ok
9	338246	105848	1582935	ok	ok	ok	ok	ok	ok	Error?	ok	ok
10	338247	105847	302047	Error?	ok	ok	ok	ok	ok	Error?	ok	ok
11	338247	105847	1582938	ok	ok	ok	ok	ok	ok	Error?	ok	ok
12	338248	105847	302047	Error?	ok	ok	ok	ok	ok	Error?	ok	ok
13	338248	105847	1582938	ok	ok	ok	ok	ok	ok	Error?	ok	ok
14	338251			ok	ok	ok	ok	ok	ok	Error?	ok	ok
15	338253			ok	Error?	ok	ok	ok	Error?	ok	ok	ok

Diagram 2

Tab A: Summary (Diagram 2): This tab contains three report elements:

- **Report Header** The Report Header contains the title of the report, and specifies the date parameter specified by the user. This header will appear on each page of the printed document if the report detail spans multiple pages. When running the report in “modify” mode, the header is only visible in “page layout” view and not in “edit report” view.

- **Report Body** The main body of tab A contains three sections:
 - **Data Quality Issues Identified in this Report:** This section simply describes the nine separate data quality issues which are identified in this report. These issues, tagged J-R, are referenced by this letter/tag throughout the remainder of the report. (See Diagram 2a below.)

Tab	DATA QUALITY ISSUES IDENTIFIED IN THIS REPORT
J	Household Members with Different Housing Status for Same Entry
K	Clients with One Need and Multiple Services Attached to the Need
L	Clients which have Multiple Housing Status Answers Within the Period
M	Clients With a Different Service Household ID from Entry Exit Household ID
N	Clients with Multiple Entry Exits with Same Entry Date
O	Clients with Multiple Services with Same Start Date
P	Clients in Multiple Households (Related to their Entries)
Q	Clients with Missing Gender or Date of Birth (Part of Client Unique ID)
R	Clients with Services with a Service Start Outside Enrollment Period
S	Clients in Multiple Households (Related to their Services)

Diagram 2a

- **Summary:** This section is self explanatory and provides counts and percentages of identified issues (J-S). (See Diagram 2b below.)

SUMMARY										
	J	K	L	M	N	O	P	Q	R	S
Total Clients	937	937	937	937	937	937	937	937	937	937
Clients Identified With This Issue	10	6	28	2	3	14	42	900	2	42
Percent Identified With This Issue	1.1%	0.6%	3.0%	0.2%	0.3%	1.5%	4.5%	96.1%	0.2%	4.5%

Diagram 2b

- **Detail by Client** This section lists the clients with data quality issues sorted by Client Uid. Issues which apply to the client are identified by “error?” in red font. Issues that do not apply are shown as “ok” in black font. This section may span multiple pages depending upon the number of records being examined. (See Diagram 2c below.)

DETAIL BY CLIENT												
Percentage of clients identified with one or more of these issues= 98.2% (920 of 937)												
Client Uid	Household Uid	Group Uid	J	K	L	M	N	O	P	Q	R	S
			Multiple Housing Status in Household	One Need Multiple Services	Multiple Housing Status Answers	Different Svc Household to EE Household	Multiple EEs with Same Entry Date	Multiple Svcs with Same Start Date	Multiple Hshlds Related to EEs	Missing Gender or Date of Birth	Svc Start Date Outside Enrollment Period	Multiple Hshlds Related to Svcs
1	336228		ok	ok	ok	ok	ok	ok	ok	Error?	ok	ok
2	336242	105856	1506542	ok	ok	Error?	ok	ok	ok	Error?	ok	Error?
3	336242			ok	ok	Error?	ok	ok	ok	Error?	ok	Error?
4	336244	105846	302044	ok	ok	ok	ok	ok	ok	Error?	ok	ok
5	336244	105846	1502935	ok	ok	ok	ok	ok	ok	Error?	ok	ok
6	336245	105846	302044	ok	ok	ok	ok	ok	ok	Error?	ok	ok
7	336245	105846	1502935	ok	ok	ok	ok	ok	ok	Error?	ok	ok
8	336246	105846	302044	ok	ok	ok	ok	ok	ok	Error?	ok	ok
9	336246	105846	1502935	ok	ok	ok	ok	ok	ok	Error?	ok	ok
10	336247	105847	302047	Error?	ok	ok	ok	ok	ok	Error?	ok	ok
11	336247	105847	1502938	ok	ok	ok	ok	ok	ok	Error?	ok	ok
12	336248	105847	302047	Error?	ok	ok	ok	ok	ok	Error?	ok	ok
13	336248	105847	1502938	ok	ok	ok	ok	ok	ok	Error?	ok	ok
14	336251			ok	ok	ok	ok	ok	ok	Error?	ok	ok
15	336253			ok	Error?	ok	ok	ok	Error?	ok	ok	ok

Diagram 2c

- **Report Footer** The report footer contains the title of the report, the name of the tab, the page number, the version number, and the date/time the report was run /printed. Like the header, the footer is only visible in page layout view when the report is run in modify mode.

DETAIL BY CLIENT									
Clients with One Need and Multiple Services Attached to the Need									
Client Uid	Need Uid	Service Provide Provider	Service Uid	Service Provide Start Date	Service Provide End Date	Service HPRP Financial Assistance Type	Service HPRP Housing Relocation & Stabilization Service Provided	Service Cost	Service Notes
336253	1558259	HPRP Test Provider 4(8563)	1592945	8/4/09	8/4/09		Outreach and engagement	\$0.00	
336253	1558259	HPRP Test Provider 4(8563)	1592946	8/4/09	8/5/09		Housing search and placement	\$0.00	
336255	1558281	HPRP Test Provider 3(8562)	1592971	8/2/09	8/2/09		Housing search and placement	\$0.00	
336255	1558281	HPRP Test Provider 3(8562)	1592974	8/17/09			Outreach and engagement	\$0.00	
336255	1558281	HPRP Test Provider 3(8562)	1592975	8/17/09		Utility deposits		\$0.00	
336255	1558281	HPRP Test Provider 3(8562)	1592976	8/17/09		Rental assistance		\$0.00	
339732	1561744	HPRP Test Provider 1(8560)	1596442	9/9/09	9/10/09	Motel & hotel vouchers		\$31.00	
339732	1561744	HPRP Test Provider 1(8560)	1596443	9/9/09	9/10/09	Motel & hotel vouchers		\$31.00	
339732	1561744	HPRP Test Provider 1(8560)	1596444	9/9/09	9/10/09	Motel & hotel vouchers		\$31.00	
339732	1561744	HPRP Test Provider 1(8560)	1596445	9/9/09	9/10/09	Motel & hotel vouchers		\$31.00	
339840	1561881	HPRP Test Provider 1(8560)	1596579	10/16/09	10/16/09	Rental assistance		\$350.00	
339840	1561881	HPRP Test Provider 1(8560)	1596580	10/16/09	10/16/09	Rental assistance		\$350.00	
339841	1561883	HPRP Test Provider 1(8560)	1596582	11/5/09	11/5/09	Rental assistance		\$175.00	
339841	1561883	HPRP Test Provider 1(8560)	1596583	11/5/09	11/5/09	Rental assistance		\$175.00	
339842	1561882	HPRP Test Provider 1(8560)	1596581	11/5/09	11/5/09	Rental assistance		\$175.00	
339842	1561882	HPRP Test Provider 1(8560)	1596584	11/5/09	11/5/09	Rental assistance		\$175.00	

Diagram 3

Tab J through S Detail: The report body of Tabs J through S displays the actual field values for all clients who were identified as having one of the data quality issues. The type of issue is identified, and the missing, erroneous, or conflicting values are highlighted in yellow. These

tabs are not displayed individually in this manual other than the example shown in Diagram 3 above. In this Tab K example, there are six clients identified as having a need with multiple services attached to it, and pertinent information about the clients, the needs and the services involved are displayed so that these records can be easily located in ServicePoint should corrective edits be needed.

Tabs J-S each show the detail related to one of the different types of potential errors and the fields that are displayed vary depending upon the error type.

**HPRP
Data Quality Report Part 2
Additional Information**

User Prompt Field	Value(s) Selected
Enter effective date:	7/1/2010
Enter Start Date of Grant:	7/1/09
Enter Start Date of Quarter:	1/1/10
Enter End Date of Quarter PLUS ONE DAY:	7/1/10
Select Provider(s):	HPRP-QA5(8577); HPRP Provider C(8583); HPRP City(8565); HPRP Avenue(8587); Restful HPRP Child(8569); HPRP Provider A(8561); HPRP-QA6(8578); HPRP Test Provider 2(8561); HPRP-QA3(8575); HPRP-QA2(8574); HPRP-QA4(8576); HPRP Street(8566); HPRP Test Provider 5(8570); HPRP Provider B(8562); HPRP Test Provider 3(8562); HPRP Test Provider 4(8563); HPRP Test Provider 1(8560); HPRP-QA1(8573); HPRP-QA7(8579); HPRP-QA8(8580)
PROVIDER	
Count by Provider not available for this report. Combined client count for all Providers =	Client Count 937

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Bowman Systems
339 Texas Street, 300
Shreveport, LA 71101
Toll Free: (888) 690-3831
Direct: (318) 213-8750
Fax: (318) 213-8784
Email: ART_Reports@BowmanSystems.com
http://www.bowmansystems.com

Diagram 4

Tab T - Additional Information (Diagram 4): This tab is a standard appendix which is included in all of the ART Gallery reports, and provided as a reference and troubleshooting document. It lists the parameters specified in response to the user prompts. Note: A breakdown by provider is not available in this report as in most of the ART Gallery reports.

TECHNICAL NOTES:

1. Not all error types are identified in this report, and not all clients are tested for all errors. The manner in which clients are identified for data testing and for inclusion in the report's results varies depending upon the type of error being targeted. The report uses ten queries, one for each type of error and one to identify a count of the total clients being examined. Below the criteria for each of the different error/issue types is described in greater detail:

Tab/error type J: Household Members with Different Housing Status for Same Entry -

To be included at least one client in a household must have a housing status value which is different from the other household members, at time of program entry. This is identified as a probable error since in the large majority of situations household members would be expected to share a common housing status at any given point in time. Recording the correct housing status for each member is critical to accurate reporting since this information determines if and where the clients and households are counted in the report.

Tab/error type K: Clients with One Need and Multiple Services Attached to the Need

To be included in this error type, the client must have at least 2 service transactions tied to a single need. The recommended Bowman HPRP workflow utilizes the multiple service transaction window which creates needs and services in a one-to-one relationship, and one-to-many need to service ratios indicate a divergence from normal workflow, or another type of anomaly in the service entry process which might result in erroneous counts. Implementations with alternative workflows in which a one-to-many need to service ratios is part of an established workflow may choose to disregard this error type.

Tab/error type L: Clients which have Multiple Housing Status Answers Within the

Period - To be included a client must have a different housing status for different program entries within the reporting period. This is flagged as a potential error since in most cases such data this would be contrary to HUD guidelines which advises that a client's housing status is to remain constant throughout their program stay.

Tab/error type M: Clients with a Different Service Household Id from Entry Exit

Household Id - To be included the client must have a Service Household Id that does not match their Entry Exit Household Id. Since these Id numbers are used to determine household counts in the report, it is important that the same household be used for both entry/exits and services since disparities can result in erroneous and/or conflicting counts.

Tab/error type N: Clients with Multiple Entry Exits with Same Entry Date - To be included the client must have at least two program entries with the same program

entry date. Both entries must fit the selected time frames and providers specified in the user prompts.

Tab/error type O: Clients with Multiple Services with Same Start Date - To be included the client must have at least two HPRP service transactions with the same Service Start Date. Again it should be noted that this represents a possible data entry error and that in some implementations this scenario may be a regular occurrence, in which case the implementation will likely choose to disregard this error type.

Tab/error type P: Clients with Multiple Households Related to Enrollment - To be included the client must have at least two enrollments during the grant period that do not include the same household designation. Example might be one entry and a single and a second as part of a family, or another example might be one entry as part of household A and a second entry as a part of household B, indicating a possible data entry error. Such errors are important to identify and correct since they result in inflated household counts.

Tab/error type Q: Clients with Missing Gender or Date of Birth (Part of Client Unique Id) - To be included the client must have at least one entry/exit at which time gender and/or date of birth data is null. Since the HPRP reports utilize the Client Unique ID to de-duplicate clients across sub-grantees and grantees it is important that this information is filled out for each client so that the Client Unique ID can be properly generated and used for de-duplication. Note: If the DOB type field indicates that the DOB is null because of a “Don’t Know” or a “Refused” answer, the null is then not reported as a potential error.

Tab/error type R: Clients with Services with a Start Date Outside of Enrollment Period – To be included the client must have at least one HPRP service transaction with a Start Date that fall outside of an enrollment period. This includes services starting before the first program entry, services starting after the last program exit, and services starting between the exit of one enrollment period and the beginning of another.

Tab/error type S: Clients with Multiple Households Related to Services - To be included the client must have at least two services during the grant period that do not include the same household designation. This could involve one service being received as a single individual, and a second as part of a family, or it could also be one in which a client is serviced as part of household A and is then later served as a part of household B, both of which indicate a possible data entry error. Such errors are important to identify and correct since they result in inflated household counts.

NOTE: This error is often connected with workflows that involve the recording of certain types of services, such as rental assistance, as being shared by all household members but involve recording other service types, such as case management, for only one of the household members. Such practice is contrary to standard HPRP workflow which involves sharing all HPRP services with all household members.

2. Inactive clients, services, and entry exits have been excluded from all parts of this report.
3. It should be noted that Tab A summary shows the Household Uid and Group Uid in addition to the Client Uid and that if a client has more than one Household Uid/Group Uid or has been served as both a single and as a household member they will appear multiple times in the listing.

REPORT MODIFICATION:

Users may choose to modify this report by adding additional fields, adding input controls, or in a variety of ways which may produce useful information. Although such use is permissible and encouraged, Bowman Systems is currently unable to provide troubleshooting support assistance for versions of this report that have been modified. However, if a customer identifies a particular report modifications that they consider especially useful and which may benefit other customers, they are strongly encouraged to submitted such an idea as a Feature Enhancement (FE) request case, and it will be carefully considered for inclusion in future versions of the report.

MODIFICATION OPTIONS:

Ad-hoc users may choose to customize this report to include only the types of errors relevant to a specific program or specific grouping of programs. The report has been designed in such a way as to facilitate such modification. To remove an un-needed error element from the report, the ad-hoc user need only:

- Delete the irrelevant row(s) from the listing in Tab A
- Delete the irrelevant column(s) from the "Summary" section of Tab A
- Delete the irrelevant column(s) from the "Client Detail" section of Tab A
- Delete the irrelevant detail tab(s) from the report.

Experienced ad-hoc users also will be able to include additional error elements in the report if needed. This would be done by constructing additional error identification queries according to the logic utilized in this report, and by adding related rows, columns, report tabs and variables.

MAPPING OBJECTS

UNIVERSE: template_u; template_ee_u; template_service_u;

This report is mapped to the client universe, entry exit universe and service universe and should be copied to your Public or Favorite folder then mapped to the equivalent universes for your site (ex. *yoursite_u*; *yoursite_ee_u*; and *yoursite_service_u*;
 Since the report utilizes multiple universes you will need to run the template process three times for the three different universes. Each time the process will only show the queries that match the chosen universe.

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
no DOBGender (entry-exit universe)	Client Uid	Location: Client Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Provider Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Type	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Date of Birth(893)	Location: Entry Objects Type: System field Use: Results object/Query filter
	Gender(894)	Location: Entry Objects Type: System field Use: Results object/Query filter
	Entry Exit Household Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Date of Birth Type	Location: Client

		Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
multiple services (service universe)	Client Uid	Location: Client Type: System field Use: Results object/Sub-query section
	Service Provide Provider	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Provide Start Date	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service HPRP Financial Assistance Type	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service HPRP Housing Relocation & Stabilization Service Provided	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Uid	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Inactive	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Need Uid	Location: Services Transactions/Needs Type: System field Use: Results object/Sub-query section
	Needs Inactive	Location: Services Transactions/Needs Type: System field Use: Results object/Sub-query filter
	Service Service Notes	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Provide End Date	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Cost1	Location: Services Transactions/Service Costs Type: System measure Use: Results object/Sub-query filter
	Service Household Id	Location: Services Transactions

		Type: System field Use: Results object
	Service Group Id	Location: Services Transactions Type: System field Use: Results object
	Service Count	Location: Services Transactions Type: System measure Use: Results object/Sub-query filter
	Client Inactive	Location: Client Type: System field Use: Results object/Sub-query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
different household (entry-exit universe)	Client Uid	Location: Client Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Entry Provider Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Household Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Service Household Id	Location: Entry Exit/Services (Outer) Type: System field Use: Results object/Query filter
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Client Inactive	Location: Client Type: System field Use: Query filter
	Service Provide Provider	Location: Entry Exit/Services (Outer)

		Type: System field Use: Sub-query filter
	Housing Status	Location: Entry Objects Type: System field Use: Sub-query filter
	Service Inactive	Location: Entry Exit/Services (Outer) Type: System field Use: Sub-query filter
	Service HPRP Financial Assistance Type	Location: Entry Exit/Services (Outer) Type: System field Use: Sub-query filter
	Service HPRP Housing Relocation & Stabilization Service Provided	Location: Entry Exit/Services (Outer) Type: System field Use: Sub-query filter
	Service Provide End Date	Location: Entry Exit/Services (Outer) Type: System field Use: Sub-query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
multiple entries (entry-exit universe)	Client Uid	Location: Client Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Entry Provider Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Household Id	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Query filter
	Entry Exit Type	Location: Entry Exit

		Type: System field Use: Query filter
	Housing Status	Location: Entry Objects Type: Standard Assessment Field Use: Query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
multiple services2 (service universe)	Client Uid	Location: Client Type: System field Use: Results object/Query filter
	Service Uid	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Provide Provider	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Provide Start Date	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Provide End Date	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service HPRP Financial Assistance Type	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service HPRP Housing Relocation & Stabilization Service Provided	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Inactive	Location: Services Transactions Type: System field Use: Results object
	Service Service Notes	Location: Services Transactions Type: System field Use: Results object
	Service Household Id	Location: Services Transactions Type: System field Use: Results object
	Service Group Id	Location: Services Transactions Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
multiple housing status (entry-exit universe)	Client Uid	Location: Client Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Entry Provider Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Type	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Housing Status	Location: Entry Objects Type: Standard Assessment Field Use: Results object/Query filter
	Entry Exit Household Id	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
all clients in range (client universe) NOTE: THIS IS A	Client Uid	Location: Client Type: System field Use: Results object /Sub-query filter
	Service Uid	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Provide Start Date	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Provide Provider	Location: Services Transactions

UNION TYPE COMBINE QUERY		Type: System field Use: Results object/Sub-query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object/Sub-query filter
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/Sub-query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Sub-query filter
	Entry Exit Entry Provider Id	Location: Entry Exit Type: System field Use: Results object/Sub-query filter
	Entry Exit Type	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Household Id	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Sub-query filter
	Service Inactive	Location: Services Transactions Type: System field Use: Sub-query filter
	Service HPRP Financial Assistance Type	Location: Services Transactions Type: System field Use: Sub-query filter
	Service HPRP Housing Relocation & Stabilization Service Provided	Location: Services Transactions Type: System field Use: Sub-query filter
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Sub-query filter
	Housing Status	Location: Entry Objects Type: System field Use: Sub-query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
multiple housing status (entry-exit universe)	Client Uid	Location: Client Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Entry Provider Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Type	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Housing Status	Location: Entry Objects Type: Standard Assessment Field Use: Results object/Query filter
	Entry Exit Household Id	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Sub-query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
	Client Uid	Location: Client Type: System field Use: Results object
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field

late service3 (client universe)		Use: Results object/Query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Entry Provider Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Service Inactive	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Provide Start Date	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Provide Provider	Location: Services Transactions Type: System field Use: Results object/Query filter
	Service Uid	Location: Services Transactions Type: System field Use: Results object
	Service Household Id	Location: Services Transactions Type: System field Use: Results object
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object/Query filter
	Client Inactive	Location: Client Type: System field Use: Sub-query filter
	Entry Exit Type	Location: Entry Exit Type: System field Use: Query filter
	Service HPRP Financial Assistance Type	Location: Services Transactions Type: System field Use: Query filter
	Service HPRP Housing Relocation & Stabilization Service Provided	Location: Services Transactions Type: System field Use: Query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
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emultiple hhs (ee universe)	Client Uid	Location: Client Type: System field Use: Results object /Sub-query section
	Entry Exit Provider Id	Location: Entry Exit Type: System field Use: Results object/ Sub-query filter
	Entry Exit Uid	Location: Entry Exit Type: System field Use: Results object
	Entry Exit Entry Date	Location: Entry Exit Type: System field Use: Results object/ Sub-query filter
	Entry Exit Exit Date	Location: Entry Exit Type: System field Use: Results object/ Sub-query filter
	Entry Exit Inactive	Location: Entry Exit Type: System field Use: Results object/Query filter
	Entry Exit Household Id	Location: Services Transactions Type: System field Use: Results object
	Entry Exit Group Id	Location: Entry Exit Type: System field Use: Results object
	Client Inactive	Location: Clients Type: System field Use: Query filter
	Entry Exit Type	Location: Entry Exit Type: System count object Use: Sub-query filter
	Housing Status	Location: Entry Objects Type: Standard System field Use: Results object/ Sub-query filter
	Entry/Exit Count-Clients	Location: Counts Type: System measure Use: Results object/ Sub-query filter

QUERY NAME	FIELD NAME	LOCATION/TYPE/USE
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multiple hhs (service universe)	Client Uid	Location: Client Type: System field Use: Results object/Sub-query section
	Service Uid	Location: Services Transactions Type: System field Use: Results object
	Service Provide Provider	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Provide Start Date	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Provide End Date	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service HPRP Financial Assistance Type	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service HPRP Housing Relocation & Stabilization Service Provided	Location: Services Transactions Type: System field Use: Results object/Sub-query filter
	Service Inactive	Location: Services Transactions Type: System field Use: Query filter
	Service Service Notes	Location: Services Transactions Type: System field Use: Results object
	Service Household Id	Location: Services Transactions Type: System field Use: Results object
	Client Inactive	Location: Client Type: System field Use: Sub-query filter
	Service Count	Location: Counts Type: System measure Use: Results object/Sub-query filter0.0

#0234 Revision History

Version	Description of Changes
V10.08.11	Original version BETA
V10.09.08	Revision BETA: Multiple feature enhancements based on customer feedback during BETA testing
V11.04.13	Revision: to incorporate HUD changes and to correct known issues
V11.05.11	Revision: to increase report speed and to correct and known issue with "all clients in range" query
V11.06.28	Revision: Correction of known issues impacting Tabs J, P and S
V6	Revision: Correction of known issues impacting Tabs E and S Repair corrupt 11.06.28 template
V7	Revision: Correction of known issues impacting Tab O where not all multiple services were showing.
V8	Revision: Fixing an issue where not every client showed on Tab O would show up under the O column on the Summary Tab. Also fixed an issue where the Summary Tab was not showing any Clients with errors in Tab S.