



**1. Missing Data**

Missing data (indicated by a "BLANK" in the HMIS Data tab) is problematic in the System Performance Predictor and may affect the reported performance of the project and the system. Percent of missing exit destinations reflects the subset of records with a valid exit date (e.g. it is assumed that all records without an exit date are active and open). Note that this analysis includes all HMIS records included in the BYC, not just those from the analysis year.

No project is missing 10% or more of values in any of the three critical variables reviewed below. In terms of missing data, data quality is sufficient for population of the System Performance Predictor (SPP).

Project	Project Type	Total Records		% Missing DOB		% Missing Prior Living		Total Exited Records		% Missing Exit Destination	
		Clients	Households	Clients	Households	Clients	Households	Clients	Households	Clients	Households
Emergency Shelter 2	ES-YR	223	222	0%	0%	0%	0%	222	221	0%	0%
Emergency Shelter 4	ES-YR	287	143	0%	0%	2%	0%	287	143	0%	0%
Emergency Shelter 9	ES-YR	243	243	0%	0%	0%	0%	243	243	0%	0%
Emergency Shelter 15	ES-YR	1,287	761	0%	0%	2%	2%	1,276	758	8%	7%
Emergency Shelter 3	ES-YR	1,409	420	0%	0%	0%	0%	1,409	420	3%	3%
Emergency Shelter 8	ES-YR	1,483	456	0%	0%	0%	0%	1,410	433	0%	0%
Emergency Shelter 6	ES-YR	1,449	1,447	0%	0%	0%	0%	1,447	1,445	5%	5%
Emergency Shelter 11	ES-YR	313	313	0%	0%	2%	2%	311	311	0%	0%
Emergency Shelter 12	ES-YR	1,274	408	0%	0%	0%	0%	1,274	408	8%	8%
Permanent Supportive Housing 8	PSH	149	122	0%	0%	0%	0%	26	24	0%	0%
Permanent Supportive Housing 5	PSH	63	42	0%	0%	2%	2%	26	16	0%	0%
Permanent Supportive Housing 16	PSH	204	134	0%	0%	1%	0%	41	30	0%	0%
Permanent Supportive Housing 7	PSH	23	23	0%	0%	0%	0%	6	6	0%	0%
Permanent Supportive Housing 21	PSH	11	11	0%	0%	0%	0%	2	2	0%	0%
Rapid Rehousing 5	RRH	188	90	0%	0%	0%	0%	182	86	0%	0%
Rapid Rehousing 7	RRH	43	43	0%	0%	0%	0%	43	43	0%	0%
Rapid Rehousing 1	RRH	325	210	0%	0%	0%	0%	325	210	0%	0%
Transitional Housing 42	TH	132	59	0%	0%	0%	0%	99	47	0%	0%
Transitional Housing 33	TH	101	101	0%	0%	0%	0%	88	88	0%	0%
Transitional Housing 50	TH	132	132	0%	0%	0%	0%	118	118	5%	5%
Transitional Housing 12	TH	446	445	0%	0%	0%	0%	391	391	0%	0%
Transitional Housing 37	TH	999	277	0%	0%	0%	0%	846	241	0%	0%
Transitional Housing 48	TH	1,116	352	0%	0%	0%	0%	981	310	0%	0%
Transitional Housing 22	TH	2,232	626	0%	0%	0%	0%	1,944	562	0%	0%



## Data Quality Summary 123: Anytown USA

### 2. Unknown Answers

Unknown answers include missing data as well as "Don't Know", "Refused", and "Other". Although these responses are valid, they are not useful for modeling outcomes. A program with a high rate of unknown data will affect the reported performance of the program and the system. Note that this analysis includes all HMIS records included in the BYC, not just those from the analysis year.

No project has 10% or more unknown values in either of the two variables. In terms of unknown data, data quality is sufficient for population of the System Performance Predictor (SPP).

Project	Project Type	Total Records		% Prior Living Unknown		Total Exited Records		% Exit Destination Unknown	
		Clients	Households	Clients	Households	Clients	Households	Clients	Households
Emergency Shelter 2	ES-YR	223	222	0%	0%	222	221	5%	5%
Emergency Shelter 4	ES-YR	287	143	2%	0%	287	143	4%	4%
Emergency Shelter 9	ES-YR	243	243	2%	2%	243	243	24%	24%
Emergency Shelter 15	ES-YR	1,287	761	7%	7%	1,276	758	28%	29%
Emergency Shelter 3	ES-YR	1,409	420	4%	4%	1,409	420	4%	5%
Emergency Shelter 8	ES-YR	1,483	456	1%	1%	1,410	433	9%	10%
Emergency Shelter 6	ES-YR	1,449	1,447	2%	2%	1,447	1,445	22%	22%
Emergency Shelter 11	ES-YR	313	313	4%	4%	311	311	20%	20%
Emergency Shelter 12	ES-YR	1,274	408	1%	1%	1,274	408	8%	8%
Permanent Supportive Housing 8	PSH	149	122	1%	0%	26	24	19%	21%
Permanent Supportive Housing 5	PSH	63	42	19%	29%	26	16	54%	38%
Permanent Supportive Housing 16	PSH	204	134	3%	1%	41	30	27%	30%
Permanent Supportive Housing 7	PSH	23	23	0%	0%	6	6	33%	33%
Permanent Supportive Housing 21	PSH	11	11	0%	0%	2	2	50%	50%
Rapid Rehousing 5	RRH	188	90	0%	0%	182	86	29%	21%
Rapid Rehousing 7	RRH	43	43	0%	0%	43	43	2%	2%
Rapid Rehousing 1	RRH	325	210	1%	1%	325	210	6%	6%
Transitional Housing 42	TH	132	59	1%	0%	99	47	0%	0%
Transitional Housing 33	TH	101	101	1%	1%	88	88	16%	16%
Transitional Housing 50	TH	132	132	1%	1%	118	118	8%	8%
Transitional Housing 12	TH	446	445	1%	1%	391	391	2%	2%
Transitional Housing 37	TH	999	277	2%	0%	846	241	5%	5%
Transitional Housing 48	TH	1,116	352	0%	0%	981	310	1%	1%
Transitional Housing 22	TH	2,232	626	1%	0%	1,944	562	7%	7%



## Data Quality Summary 123: Anytown USA

### 3. Length of Stay

Length of stay in projects can vary, however, significant variance may signal data quality issues. Average project length of stay is used to calculate the starting project capacity and turnover rate, so is important to be as accurate as possible. The table below shows different length of stay measures by programs and highlights in purple any program with an average LOS above the HUD maximum length of stay. Any negative length of stay measure is highlighted in red, indicating a data quality issue that must be addressed before proceeding to the SPP.

No project has negative length of stay measures. Be sure to review the other length of stay measures for accuracy; data quality in terms of length of stay should be sufficient to populate the SPP.

Project	Project Type	Total Exited Households	Min LOS	Max LOS	Average LOS	Median LOS	Max LOS goal per HUD
Emergency Shelter 2	ES-YR	96	15	445	65	50	30
Emergency Shelter 4	ES-YR	74	42	320	107	98	30
Emergency Shelter 9	ES-YR	143	18	273	72	68	30
Emergency Shelter 15	ES-YR	211	11	317	106	81	30
Emergency Shelter 3	ES-YR	218	14	89	36	41	30
Emergency Shelter 8	ES-YR	213	11	102	53	56	30
Emergency Shelter 6	ES-YR	751	10	222	55	46	30
Emergency Shelter 11	ES-YR	127	16	405	93	84	30
Emergency Shelter 12	ES-YR	194	34	261	96	82	30
Permanent Supportive Housing 8	PSH	12	548	6,209	2,774	1,762	N/A
Permanent Supportive Housing 5	PSH	0	0	0	0	0	N/A
Permanent Supportive Housing 16	PSH	15	242	5,927	2,038	1,368	N/A
Permanent Supportive Housing 7	PSH	3	116	1,611	691	347	N/A
Permanent Supportive Housing 21	PSH	1	875	875	875	875	N/A
Rapid Rehousing 5	RRH	46	21	326	111	100	540
Rapid Rehousing 7	RRH	24	26	366	137	129	540
Rapid Rehousing 1	RRH	99	19	186	130	135	540
Transitional Housing 42	TH	19	1	531	181	160	720
Transitional Housing 33	TH	39	1	750	244	143	720
Transitional Housing 50	TH	26	-25	1,347	380	239	720
Transitional Housing 12	TH	193	0	233	102	113	720
Transitional Housing 37	TH	109	21	318	136	130	720
Transitional Housing 48	TH	160	1	333	106	108	720
Transitional Housing 22	TH	312	1	336	78	80	720



4. Utilization Rates

Using HIC capacity, columns A, B and C display the utilization rate and the expected annual bed nights available per project (seasonal programs are multiplied by the number of days open). Columns D and E show the annual bed nights accounted for in the HMIS dataset and the corresponding utilization rate. The HMIS utilization rate (column E) is used for modeling purposes. Substantial differences between the reported utilization rate (Column B) and the HMIS utilization rate (Column E) can indicate data quality issues related to entering and/or exiting clients from HMIS. Many of the performance measures in the SPP are based on the movement of clients and the capacity to fill vacated beds, so it is important that HMIS data accurately reflect the actual occupancy during the analysis year.

Data Quality Summary

123: Anytown USA

The utilization rate per the HMIS records of all projects is within 10% of the reported utilization rates. Be sure to review the summary below; in terms of utilization rates, data should be of sufficient quality to populate the SPP.

Project	Project Type	A HMIS Bed/Unit Capacity	B Reported Annual Utilization	C Reported Annual Available	D Annual HoH Bed Nights in HMIS Data	E HMIS Utilization Rate	F Difference
Emergency Shelter 2	ES-YR	20	70%	5,110	6,307	86%	HMIS bed nights 23% greater than expected per HIC
Emergency Shelter 4	ES-YR	21	87%	6,669	7,445	97%	HMIS bed nights 12% greater than expected per HIC
Emergency Shelter 9	ES-YR	26	100%	9,490	9,320	98%	HMIS bed nights 2% less than expected per HIC
Emergency Shelter 15	ES-YR	144	75%	39,420	20,501	39%	HMIS bed nights 48% less than expected per HIC
Emergency Shelter 3	ES-YR	22	71%	5,701	7,864	98%	HMIS bed nights 38% greater than expected per HIC
Emergency Shelter 8	ES-YR	33	77%	9,247	11,415	95%	HMIS bed nights 23% greater than expected per HIC
Emergency Shelter 6	ES-YR	106	90%	34,698	41,386	107%	HMIS bed nights 19% greater than expected per HIC
Emergency Shelter 11	ES-YR	33	82%	9,877	10,426	87%	HMIS bed nights 6% greater than expected per HIC
Emergency Shelter 12	ES-YR	52	98%	18,674	18,030	95%	HMIS bed nights 3% less than expected per HIC
Permanent Supportive Housing 8	PSH	117	97%	41,449	37,687	88%	HMIS bed nights 9% less than expected per HIC
Permanent Supportive Housing 5	PSH	24	100%	8,760	9,422	108%	HMIS bed nights 8% greater than expected per HIC
Permanent Supportive Housing 16	PSH	104	108%	40,997	39,359	104%	HMIS bed nights 4% less than expected per HIC
Permanent Supportive Housing 7	PSH	17	82%	5,110	5,658	91%	HMIS bed nights 11% greater than expected per HIC
Permanent Supportive Housing 21	PSH	10	70%	2,555	3,389	93%	HMIS bed nights 33% greater than expected per HIC
Rapid Rehousing 5	RRH	30	100%	10,950	5,544	100%	HMIS bed nights 49% less than expected per HIC
Rapid Rehousing 7	RRH	18	100%	6,570	1,856	100%	HMIS bed nights 72% less than expected per HIC
Rapid Rehousing 1	RRH	54	75%	19,710	13,535	100%	HMIS bed nights 31% less than expected per HIC
Transitional Housing 42	TH	19	68%	4,716	3,997	58%	HMIS bed nights 15% less than expected per HIC
Transitional Housing 33	TH	26	100%	9,490	8,768	92%	HMIS bed nights 8% less than expected per HIC
Transitional Housing 50	TH	31	97%	10,976	10,400	92%	HMIS bed nights 5% less than expected per HIC
Transitional Housing 12	TH	60	88%	19,345	19,381	88%	None
Transitional Housing 37	TH	42	88%	13,414	14,004	91%	HMIS bed nights 4% greater than expected per HIC
Transitional Housing 48	TH	45	77%	12,655	15,947	97%	HMIS bed nights 26% greater than expected per HIC
Transitional Housing 22	TH	66	76%	18,408	23,890	99%	HMIS bed nights 30% greater than expected per HIC



**5. Annual Households Served**

The BYC calculates the total households served and exited in a year using the project's point in time capacity (count of beds/units), calculated utilization rate, and length of stay.

$$= (PIT\ capacity \times ((365 \times utilization\ rate) \div length\ of\ stay))$$

For projects with an average length of stay greater than a year, the annual households served is equal to the point in time capacity, and the number of households exited is derived using this formula. This table shows this calculated capacity as well as the capacity per HMIS records (e.g. the count of household records who were open in HMIS during the analysis year). A difference in these counts can indicate data quality issues related to entering and/or exiting clients from HMIS.

**Data Quality Summary  
123: Anytown USA**

Project	Project Type	HMIS Households Served	Calculated Households Served	Difference (calculated - HMIS)	
Emergency Shelter 2	ES-YR	112	97	-15	Calculated count of HHs served is 14% less than the count of HHs served per HMIS.
Emergency Shelter 4	ES-YR	85	70	-15	Calculated count of HHs served is 18% less than the count of HHs served per HMIS.
Emergency Shelter 9	ES-YR	163	130	-33	Calculated count of HHs served is 20% less than the count of HHs served per HMIS.
Emergency Shelter 15	ES-YR	219	194	-25	Calculated count of HHs served is 12% less than the count of HHs served per HMIS.
Emergency Shelter 3	ES-YR	231	217	-14	Calculated count of HHs served is 6% less than the count of HHs served per HMIS.
Emergency Shelter 8	ES-YR	236	214	-22	Calculated count of HHs served is 9% less than the count of HHs served per HMIS.
Emergency Shelter 6	ES-YR	829	753	-76	Calculated count of HHs served is 9% less than the count of HHs served per HMIS.
Emergency Shelter 11	ES-YR	147	112	-35	Calculated count of HHs served is 24% less than the count of HHs served per HMIS.
Emergency Shelter 12	ES-YR	226	187	-39	Calculated count of HHs served is 17% less than the count of HHs served per HMIS.
Permanent Supportive Housing 8	PSH	110	103	-7	Calculated count of HHs served is 6% less than the count of HHs served per HMIS.
Permanent Supportive Housing 5	PSH	26	26	0	None
Permanent Supportive Housing 16	PSH	119	108	-11	Calculated count of HHs served is 9% less than the count of HHs served per HMIS.
Permanent Supportive Housing 7	PSH	20	16	-4	Calculated count of HHs served is 22% less than the count of HHs served per HMIS.
Permanent Supportive Housing 21	PSH	10	9	-1	Calculated count of HHs served is 7% less than the count of HHs served per HMIS.
Rapid Rehousing 5	RRH	70	99	29	Calculated count of HHs served is 41% greater than than the count of HHs served per HMIS.
Rapid Rehousing 7	RRH	25	48	23	Calculated count of HHs served is 91% greater than than the count of HHs served per HMIS.
Rapid Rehousing 1	RRH	155	152	-3	Calculated count of HHs served is 2% less than the count of HHs served per HMIS.
Transitional Housing 42	TH	31	22	-9	Calculated count of HHs served is 29% less than the count of HHs served per HMIS.
Transitional Housing 33	TH	64	36	-28	Calculated count of HHs served is 44% less than the count of HHs served per HMIS.
Transitional Housing 50	TH	55	28	-27	Calculated count of HHs served is 48% less than the count of HHs served per HMIS.
Transitional Housing 12	TH	247	189	-58	Calculated count of HHs served is 23% less than the count of HHs served per HMIS.
Transitional Housing 37	TH	145	103	-42	Calculated count of HHs served is 29% less than the count of HHs served per HMIS.
Transitional Housing 48	TH	202	150	-52	Calculated count of HHs served is 26% less than the count of HHs served per HMIS.
Transitional Housing 22	TH	376	307	-69	Calculated count of HHs served is 18% less than the count of HHs served per HMIS.