

## DELINQUENCY DATASET

Records for delinquency post-disposition cases between January 2019 to June 2023 was obtained from the Court Research Office of Minnesota's State Court Administrator's Office. This included 12,001 juvenile placements broken down to the following facility categories:

Facility General Category	Facility Category	No. of Placements	% of Total
Shelter, Group home, Foster care	Shelter	153	1.27%
	Group Home	531	4.42%
	Foster care	145	1.21%
Non-secure	RTC - non-secure	541	4.51%
	JDC / RTC - non-secure	915	7.62%
Non-secure & Secure	RTC - both or unknown	1504	12.53%
	JDC / RTC - both	1038	8.65%
Secure	RTC - secure	422	3.52%
	JDC / RTC - secure	5854	48.78%
Adult Facility		116	0.97%
Null, Other, Blank		782	6.52%
<b>Grand Total</b>		12001	100.00%

Nearly half of the placements were to secure juvenile detention centers (JDC) or regional treatment centers (RTC). This dataset does include potential duplicate records to the same facilities for some individuals resulting in overcounting of those categories. To minimize this issue, a method of filtering out extraneous mentions of the same facility was adopted:

1. Accept all FIRST placement to a unique facility for each individual (party id).
2. Accept any other subsequent facility placements occurring at least 95 days after its immediate previous record.
3. Disregard all other placements that do not meet the above criteria.

This resulted in a slimmer dataset of 5653 viable records broken down to the same facility categories as above. The same placement pattern holds true as the full dataset with majority of placements going to secure JDCs or RTCs.

Facility General Category	Facility Category	No. of Placements	% of Total
Shelter, Group home, Foster care	Shelter	64	1.13%
	Group Home	295	5.22%
	Foster care	56	0.99%
Non-secure	RTC - non-secure	328	5.80%
	JDC / RTC - non-secure	414	7.32%
Non-secure & Secure	RTC - both or unknown	718	12.70%
	JDC / RTC - both	349	6.17%
Secure	RTC - secure	201	3.56%
	JDC / RTC - secure	2803	49.58%
Adult Facility		56	0.99%
Null, Other, Blank		369	6.53%
<b>Grand Total</b>		5653	100.00%

## DELINQUENCY PLACEMENTS BY GENDER

Gender	Shelter, Group homes, Foster care	Non-secure	Non-secure & Secure	Secure	Adult Facility	Null, Other, Blank	Grand Total
Female	100 (1.77%)	179 (3.17%)	190 (3.36%)	532 (9.41%)	12 (0.21%)	73 (1.29%)	1086 (19.21%)
Male	310 (5.48%)	548 (9.69%)	868 (15.35%)	2419 (42.79%)	44 (0.78%)	294 (5.20%)	4483 (79.30%)
NULL	5 (0.09%)	15 (0.27%)	9 (0.16%)	53 (0.94%)		2 (0.04%)	84 (1.49%)
<b>Grand Total</b>	<b>415 (7.34%)</b>	<b>742 (13.13%)</b>	<b>1067 (18.87%)</b>	<b>3004 (53.14%)</b>	<b>56 (0.99%)</b>	<b>369 (6.53%)</b>	<b>5653 (100.00%)</b>

Broken down by gender, placements to secure and mixed facilities dominate the dataset. Of note is that there are 4 times as many males as there are females in this delinquency dataset.

## DELINQUENCY PLACEMENTS BY AGE AT FILING

Age at Filing	Shelter, Group homes, Foster care	Non-secure	Non-secure & Secure	Secure	Adult Facility	Null, Other, Blank	Grand Total
<12	28 (0.50%)	41 (0.73%)	55 (0.97%)	138 (2.44%)		30 (0.53%)	292 (5.17%)
13	36 (0.64%)	102 (1.80%)	121 (2.14%)	284 (5.02%)	1 (0.02%)	49 (0.87%)	593 (10.49%)
14	96 (1.70%)	131 (2.32%)	210 (3.71%)	464 (8.21%)	6 (0.11%)	87 (1.54%)	994 (17.58%)
15	100 (1.77%)	170 (3.01%)	244 (4.32%)	671 (11.87%)	4 (0.07%)	67 (1.19%)	1256 (22.22%)
16	89 (1.57%)	148 (2.62%)	246 (4.35%)	724 (12.81%)	15 (0.27%)	72 (1.27%)	1294 (22.89%)
17	66 (1.17%)	138 (2.44%)	181 (3.20%)	637 (11.27%)	25 (0.44%)	58 (1.03%)	1105 (19.55%)
18		11 (0.19%)	9 (0.16%)	86 (1.52%)	4 (0.07%)	6 (0.11%)	116 (2.05%)
19					1 (0.02%)		1 (0.02%)
22			1 (0.02%)				1 (0.02%)
NULL		1 (0.02%)					1 (0.02%)
<b>Grand Total</b>	<b>415 (7.34%)</b>	<b>742 (13.13%)</b>	<b>1067 (18.87%)</b>	<b>3004 (53.14%)</b>	<b>56 (0.99%)</b>	<b>369 (6.53%)</b>	<b>5653 (100.00%)</b>

Placement patterns remain consistent when broken down by age at filing (majority are placed at secure and mixed facilities). 65% of placements were for individuals between the ages of 15 and 17.

## DELINQUENCY PLACEMENTS BY RACE

Race	Shelter, Group homes, Foster care	Non-secure	Non-secure & Secure	Secure	Adult Facility	Null, Other, Blank	Grand Total
American Indian or Alaska Native	34 (0.60%)	48 (0.85%)	203 (3.59%)	165 (2.92%)	7 (0.12%)	30 (0.53%)	487 (8.61%)
Asian or Pacific Islander	4 (0.07%)	16 (0.28%)	13 (0.23%)	57 (1.01%)		11 (0.19%)	101 (1.79%)
Black or African American	85 (1.50%)	113 (2.00%)	226 (4.00%)	915 (16.19%)	10 (0.18%)	115 (2.03%)	1464 (25.90%)
Hispanic or Latino	50 (0.88%)	109 (1.93%)	79 (1.40%)	269 (4.76%)	4 (0.07%)	28 (0.50%)	539 (9.53%)
White	161 (2.85%)	300 (5.31%)	355 (6.28%)	929 (16.43%)	33 (0.58%)	115 (2.03%)	1893 (33.49%)
Multiracial	30 (0.53%)	57 (1.01%)	77 (1.36%)	175 (3.10%)		22 (0.39%)	361 (6.39%)
Other	6 (0.11%)	19 (0.34%)	10 (0.18%)	40 (0.71%)		8 (0.14%)	83 (1.47%)
Unavailable	45 (0.80%)	80 (1.42%)	104 (1.84%)	454 (8.03%)	2 (0.04%)	40 (0.71%)	725 (12.83%)
<b>Grand Total</b>	<b>415 (7.34%)</b>	<b>742 (13.13%)</b>	<b>1067 (18.87%)</b>	<b>3004 (53.14%)</b>	<b>56 (0.99%)</b>	<b>369 (6.53%)</b>	<b>5653 (100.00%)</b>

Secure placements still dominated the dataset when broken down by race except for American Indians and Alaskan Natives where more went to mixed facilities. A third of the dataset population identified as White followed by a quarter identifying as Black or African American.

## PLACEMENTS TO GENERAL FACILITY CATEGORIES BY JUDICIAL DISTRICT

Facility Judicial District	Shelter, Group homes, Foster care	Non-secure	Non-secure & Secure	Secure	Adult Facility	Null, Other, Blank	Grand Total
1st	49 (0.87%)	25 (0.44%)	1 (0.02%)	834 (14.75%)	1 (0.02%)		910 (16.10%)
2nd	19 (0.34%)		28 (0.50%)		4 (0.07%)	1 (0.02%)	52 (0.92%)
3rd			19 (0.34%)				19 (0.34%)
4th	22 (0.39%)		10 (0.18%)	171 (3.02%)	1 (0.02%)	2 (0.04%)	206 (3.64%)
5th			20 (0.35%)		4 (0.07%)	3 (0.05%)	27 (0.48%)
6th	1 (0.02%)		169 (2.99%)	395 (6.99%)	4 (0.07%)	13 (0.23%)	582 (10.30%)
7th	11 (0.19%)		422 (7.47%)		7 (0.12%)	1 (0.02%)	441 (7.80%)
8th	176 (3.11%)	378 (6.69%)				1 (0.02%)	555 (9.82%)
9th	52 (0.92%)		326 (5.77%)	24 (0.42%)	23 (0.41%)	19 (0.34%)	444 (7.85%)
10th	38 (0.67%)	321 (5.68%)	23 (0.41%)	1562 (27.63%)	12 (0.21%)	21 (0.37%)	1977 (34.97%)
BLANK	47 (0.83%)	18 (0.32%)	49 (0.87%)	18 (0.32%)		308 (5.45%)	440 (7.78%)
<b>Grand Total</b>	<b>415 (7.34%)</b>	<b>742 (13.13%)</b>	<b>1067 (18.87%)</b>	<b>3004 (53.14%)</b>	<b>56 (0.99%)</b>	<b>369 (6.53%)</b>	<b>5653 (100.00%)</b>

This table shows the facility categories where placements occur located within each judicial district. Most districts host secure and mixed (non-secure & secure) facilities where the majority of placements occur. Missing values may be evidence of the absence of those facility types in those judicial districts (ex. district 8 may only have shelter/group home or non-secure facility types in their jurisdiction).

Contrast this to the placement of individuals based on their cases' judicial district.

Party Judicial District	Shelter, Group homes, Foster care	Non-secure	Non-secure & Secure	Secure	Adult Facility	Null, Other, Blank	Grand Total
1st	68 (1.20%)	54 (0.96%)	31 (0.55%)	487 (8.61%)	6 (0.11%)	6 (0.11%)	652 (11.53%)
2nd	35 (0.62%)	8 (0.14%)	136 (2.41%)	123 (2.18%)	2 (0.04%)	91 (1.61%)	395 (6.99%)
3rd	19 (0.34%)	77 (1.36%)	42 (0.74%)	105 (1.86%)		14 (0.25%)	257 (4.55%)
4th	55 (0.97%)	28 (0.50%)	172 (3.04%)	374 (6.62%)	6 (0.11%)	93 (1.65%)	728 (12.88%)
5th	72 (1.27%)	161 (2.85%)	36 (0.64%)	13 (0.23%)		9 (0.16%)	291 (5.15%)
6th	4 (0.07%)	1 (0.02%)	19 (0.34%)	377 (6.67%)	4 (0.07%)	8 (0.14%)	413 (7.31%)
7th	55 (0.97%)	75 (1.33%)	254 (4.49%)	175 (3.10%)	4 (0.07%)	25 (0.44%)	588 (10.40%)
8th	27 (0.48%)	172 (3.04%)	31 (0.55%)	5 (0.09%)		11 (0.19%)	246 (4.35%)
9th	61 (1.08%)	24 (0.42%)	334 (5.91%)	76 (1.34%)	29 (0.51%)	105 (1.86%)	629 (11.13%)
10th	19 (0.34%)	142 (2.51%)	12 (0.21%)	1269 (22.45%)	5 (0.09%)	7 (0.12%)	1454 (25.72%)
<b>Grand Total</b>	<b>415 (7.34%)</b>	<b>742 (13.13%)</b>	<b>1067 (18.87%)</b>	<b>3004 (53.14%)</b>	<b>56 (0.99%)</b>	<b>369 (6.53%)</b>	<b>5653 (100.00%)</b>

This table may be a good metric to gauge the facility needs on any given judicial district. For example, district 5 had more than half of their placements done to non-secure facilities, yet the previous table shows that they may not have any of that type of facility at all.

## PLACEMENTS TO GENERAL FACILITY CATEGORIES BY JUDICIAL DISTRICT (continued)

Here is a matrix of placements between case judicial district and their resulting facility judicial district:

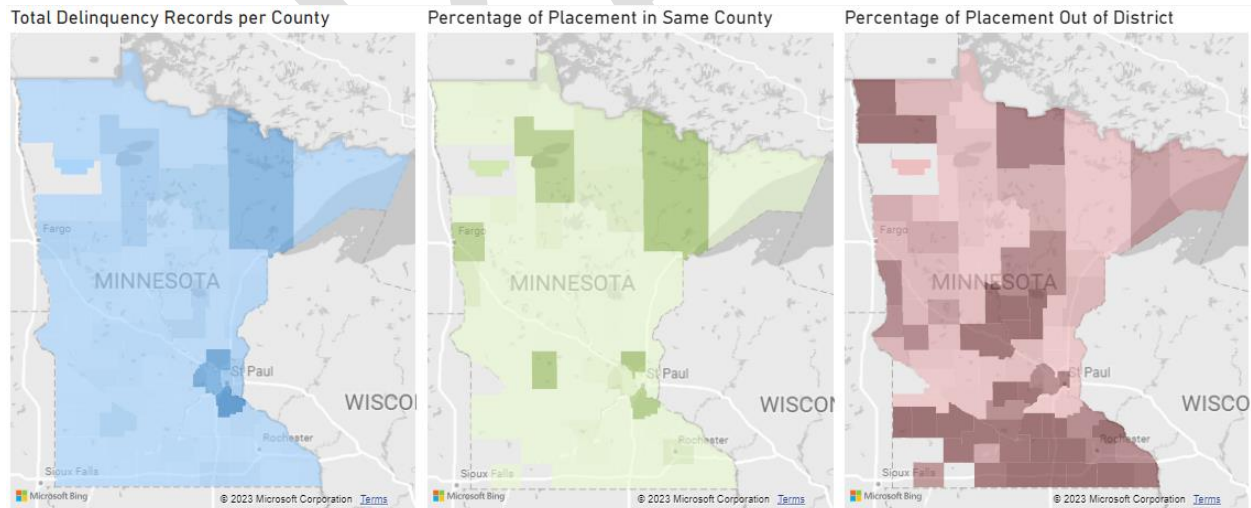
		Party Judicial District										Grand Total
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
Facility Judicial District	1st	510 (9.02%)	106 (1.88%)	23 (0.41%)	206 (3.64%)	8 (0.14%)	4 (0.07%)	27 (0.48%)		14 (0.25%)	12 (0.21%)	910 (16.10%)
	2nd	4 (0.07%)	37 (0.65%)		3 (0.05%)	1 (0.02%)	1 (0.02%)			3 (0.05%)	3 (0.05%)	52 (0.92%)
	3rd	1 (0.02%)		11 (0.19%)	1 (0.02%)	4 (0.07%)			2 (0.04%)			19 (0.34%)
	4th	7 (0.12%)	27 (0.48%)		171 (3.02%)					1 (0.02%)		206 (3.64%)
	5th		7 (0.12%)		6 (0.11%)	12 (0.21%)				2 (0.04%)		27 (0.48%)
	6th	12 (0.21%)	7 (0.12%)	17 (0.30%)	92 (1.63%)	3 (0.05%)	388 (6.86%)	26 (0.46%)	1 (0.02%)	33 (0.58%)	3 (0.05%)	582 (10.30%)
	7th	3 (0.05%)	91 (1.61%)	5 (0.09%)	41 (0.73%)	14 (0.25%)	2 (0.04%)	204 (3.61%)	30 (0.53%)	50 (0.88%)	1 (0.02%)	441 (7.80%)
	8th	16 (0.28%)	6 (0.11%)	27 (0.48%)	4 (0.07%)	205 (3.63%)		85 (1.50%)	193 (3.41%)	13 (0.23%)	6 (0.11%)	555 (9.82%)
	9th	7 (0.12%)	6 (0.11%)	1 (0.02%)	9 (0.16%)	1 (0.02%)	10 (0.18%)	54 (0.96%)	2 (0.04%)	347 (6.14%)	7 (0.12%)	444 (7.85%)
	10th	71 (1.26%)	20 (0.35%)	146 (2.58%)	64 (1.13%)	26 (0.46%)	2 (0.04%)	180 (3.18%)	11 (0.19%)	49 (0.87%)	1408 (24.91%)	1977 (34.97%)
Grand Total		652 (11.53%)	395 (6.99%)	257 (4.55%)	728 (12.88%)	291 (5.15%)	413 (7.31%)	588 (10.40%)	246 (4.35%)	629 (11.13%)	1454 (25.72%)	5653 (100.00%)

The cells diagonal down the middle represents cases with placements within their same district. All but districts 2, 3, 5, and to some extent, 4 tend to place within their districts. Districts 2 and 4 place more than a quarter of their youths in district 1 facilities while districts 3 and 5 place more than half of theirs at facilities in districts 10 and 8 respectively.

Drilling down by county, less than half of the placements are done within the same county as the case:

Same county placement	No. of Placements
N	3188 (56.39%)
Y	2465 (43.61%)
<b>Grand Total</b>	<b>5653 (100.00%)</b>

Here is a spatial map of all delinquency records by county and their resulting placements either within the same county (light green is 0%, dark green is 100%) or outside their judicial district (light red is 0%, dark red is 100%):



The dataset is dominated by records from Dakota county (1729), Anoka county (1330), and Hennepin county (1230). Anoka county leads in keeping 100% of all their placements within county borders followed by St. Louis (98.2%), Kandiyohi (92.9%), and Dakota (90.5%). Several counties have 100% of their placements outside their judicial districts (Freeborn, Morrison, Steele, and Rice to name a few) or close to all (98.6% for Mille Lacs, 97.2% for Benton, and 97.8% for Redwood).

## DELINQUENCY PLACEMENT JOURNEY MAPPING

To study the sequence of placements that any one individual had in this dataset (January 2019 to June 2023), the filtered data was sorted chronologically, and records were ranked for each party id from earliest sentence date to latest (their earliest record is ranked 1 followed by 2 and so on).

Taking the average of all these journey steps across facility categories results in this table sorted by earliest journey step to latest:

Facility General Category	Count of Steps	Avg Journey Step	StdDev
Adult Facility	56	2.05	1.95
Non-secure	742	2.21	2.22
Shelter, Group homes, Foster care	415	2.33	2.30
Secure	3004	2.44	2.73
Non-secure & Secure	1067	2.64	2.73
Null, Other, Blank	369	2.76	2.70
Grand Total	5653	2.45	2.63

Though there is a gradient, all facility types got an average journey step between 2 and 3 with just as much standard deviation. This means that each facility type is just as likely to be a placement destination as another for any given journey step.

No other insight can be gleaned when breaking down this analysis further by journey step besides that 90% of all placements happened within the first 5 steps of all individual journeys:

Journey Step	Shelter, Group homes, Foster care	Non-secure	Non-secure & Secure	Secure	Adult Facility	Null, Other, Blank	Grand Total
1	222 (7.34%)	401 (13.26%)	534 (17.66%)	1653 (54.68%)	34 (1.12%)	179 (5.92%)	3023 (53.48%)
2	76 (7.62%)	155 (15.53%)	177 (17.74%)	521 (52.20%)	8 (0.80%)	61 (6.11%)	998 (17.65%)
3	39 (7.41%)	64 (12.17%)	108 (20.53%)	274 (52.09%)	5 (0.95%)	36 (6.84%)	526 (9.30%)
4	28 (7.98%)	42 (11.97%)	79 (22.51%)	165 (47.01%)	5 (1.42%)	32 (9.12%)	351 (6.21%)
5	21 (9.59%)	28 (12.79%)	54 (24.66%)	101 (46.12%)	1 (0.46%)	14 (6.39%)	219 (3.87%)
6	10 (6.25%)	22 (13.75%)	32 (20.00%)	85 (53.13%)	1 (0.63%)	10 (6.25%)	160 (2.83%)
7	3 (3.09%)	10 (10.31%)	20 (20.62%)	57 (58.76%)	1 (1.03%)	6 (6.19%)	97 (1.72%)
8	4 (5.97%)	5 (7.46%)	12 (17.91%)	36 (53.73%)		10 (14.93%)	67 (1.19%)
9	3 (5.26%)	4 (7.02%)	21 (36.84%)	23 (40.35%)		6 (10.53%)	57 (1.01%)
10	1 (2.50%)	3 (7.50%)	11 (27.50%)	20 (50.00%)		5 (12.50%)	40 (0.71%)
11	2 (7.41%)	2 (7.41%)	5 (18.52%)	15 (55.56%)		3 (11.11%)	27 (0.48%)
12	1 (5.88%)	1 (5.88%)		11 (64.71%)	1 (5.88%)	3 (17.65%)	17 (0.30%)
13	1 (5.88%)	3 (17.65%)	2 (11.76%)	10 (58.82%)		1 (5.88%)	17 (0.30%)
14	1 (11.11%)		3 (33.33%)	3 (33.33%)		2 (22.22%)	9 (0.16%)
15	1 (12.50%)		1 (12.50%)	6 (75.00%)			8 (0.14%)
16	2 (20.00%)		3 (30.00%)	4 (40.00%)		1 (10.00%)	10 (0.18%)
17			2 (33.33%)	4 (66.67%)			6 (0.11%)
18				4 (100.00%)			4 (0.07%)
19				2 (100.00%)			2 (0.04%)
20				4 (100.00%)			4 (0.07%)
22			1 (50.00%)	1 (50.00%)			2 (0.04%)
23			1 (50.00%)	1 (50.00%)			2 (0.04%)
24		1 (100.00%)					1 (0.02%)
25		1 (100.00%)					1 (0.02%)
26				1 (100.00%)			1 (0.02%)
27			1 (33.33%)	2 (66.67%)			3 (0.05%)
28				1 (100.00%)			1 (0.02%)
Grand Total	415 (7.34%)	742 (13.13%)	1067 (18.87%)	3004 (53.14%)	56 (0.99%)	369 (6.53%)	5653 (100.00%)