

Final minutes

Criminal Justice Policy Commission Meeting

9:00 a.m. • Wednesday, July 11, 2018

Harry T. Gast Appropriations Room • 3rd Floor State Capitol Building
100 N. Capitol Avenue • Lansing, MI

Members Present:

Senator Bruce Caswell, Chair
Representative Vanessa Guerra
D.J. Hilson
Kyle Kaminski
Barbara Levine (via teleconference)
Laura Moody
Sheriff Lawrence Stelma
Jennifer Strange (via teleconference)
Judge Paul Stutesman
Andrew Verheek

Members Excused:

Senator Patrick Colbeck
Sheryl Kubiak
Sarah Lightner
Representative Jim Runestad
Judge Raymond Voet

I. Call to Order and Roll Call

The Chair called the meeting to order at 9:00 a.m. and asked the clerk to take the roll. A quorum was present, and absent members were excused.

The Chair called on Grady Bridges to provide an update on the conference he recently attended. Mr. Bridges proceeded with a brief overview of the topics covered at the Intergovernmental Policy Academy: Young Adults and the Justice System conference, which focused on the overuse of local jails and alternative strategies with the potential to remedy the problem.

II. Approval of June 6, 2018 CJPC Meeting Minutes

The Chair asked members if there were any corrections to the proposed June 6, 2018 CJPC meeting minutes. There were none. **Commissioner Hilson moved, supported by Commissioner Kaminski, to approve the minutes of the June 6, 2018 Criminal Justice Policy Commission meeting as proposed. There was no further discussion. The minutes were approved by unanimous consent.**

III. Data Subcommittee Update

The Chair called on Grady Bridges for a subcommittee update. Mr. Bridges highlighted the most recent preliminary findings and results that covered the probability of an offender receiving a prison sentence. See the attached handout for more details. Commissioner Levine inquired about the map on page 4 of the handout that shows Oakland, Wayne, and Macomb to be less than average in terms of the probability of receiving a prison sentence. She also commented that the definition of urban and rural is a matter of interpretation. In response, Mr. Bridges explained how he weighted the counties to get a state average which he then used in the circuit court comparison. A discussion of Table 2 that provides an overview of the regression results followed. The Chair suggested, for purposes of accuracy, more clarification be included in the race line. Judge Stutesman and Commissioner Stelma expressed concern that the information found in Table 2 may be misconstrued and problematic. Mr. Bridges explained that the information is meant to identify what may and what may not be significant. Commissioner Verheek offered that it might be better to focus a report on each individual circuit rather than one large report that might confuse people. Judge Stutesman noted that this may not be practical. Commissioner Levine suggested it might be possible to develop a template to use that would allow for an appendix of a brief description of the most significant variances for each circuit. She would also like to see the PRVs and ORVs separated and commented that, for race, it would be helpful that "white" be the independent variable and have the other racial groups tested against that group. The Chair stressed that, for the items found in Table A-2, information should be added to clearly identify what is being used as the base. The discussion concluded with an overview of the next steps which include refinement of the preliminary results, incorporating the feedback received at today's meeting, and looking at the next research question. Commissioner Verheek shared that we are at a stage where we need to start to look at geographic location since where someone is released may significantly impact their odds of recidivism. Commissioner Levine wondered if the category of people not going to prison should be further split into those who get any jail time and emphasized the importance of accounting for this factor.

The Chair asked Commissioner Moody and Tom Clement for feedback from the Attorney General's Office and SCAO on the information the Commission has so far and if the direction the Commission is going makes sense. The next Commission meeting was then discussed, and the Chair announced that the August meeting may be cancelled if there is no reason to meet.

IV. Mental Health Subcommittee Update

Commissioner Strange reported that she and Commissioner Lightner reached out to the Legislature after the Commission's mental health recommendation was released and no feedback was received.

V. Commissioner Comments

Commissioner Verheek praised Grady Bridges for the good job he is doing. Commissioner Hilson and Chair Caswell echoed those sentiments. Commissioner Levine asked that a hard copy of the handout be sent to her. There were no additional comments from the Commissioners.

VI. Public Comments

The Chair asked if there were any public comments. There were no public comments.

VII. Next CJPC Meeting Date

The next CJPC meeting is scheduled for **Wednesday, August 1, 2018, at 9:00 a.m. in Room 402-403, 4th Floor of the State Capitol Building.** The Chair reminded members that the August meeting may be cancelled if there is limited data for the Commission to review.

VIII. Adjournment

There was no further business. The Chair adjourned the meeting at 11:02 a.m.

(Minutes approved at the September 5, 2018 CJPC meeting.)

Criminal Justice Policy Commission
Straddle Cell Sentencing Pilot Study
- Discussion of Preliminary Results -

1. Study Goals:

Using data made available by the Michigan Department of Corrections our analysis seeks to provide answers to the following questions:

Research Question 1: To what extent are prison sentences, relative to intermediate sanctions, imposed on those who score in straddle cells on the D -Grid?

Research Question 2: For offenders with similar offense and offender characteristics, are there disparities in the rate of prison sentences? If so, what factors or characteristics are contributing to such disparities?

Research Question 3: Does the recidivism rate for those receiving a prison sentences differ significantly from those receiving intermediate sanctions?

2. Data Collection

The MDOC provided the commission with two datasets containing felony sentencing information from Jan. 1st, 2012 through Dec. 31st, 2017¹:

- A. BIR DEM contains demographic data associated with the sentencing event. There will be one record for each sentencing event (combinations of offender, sentence date, and sentencing county).
- B. BIR OFF the offense portion associated with the sentencing event. There could be multiple offense records for each sentencing event each potentially with their own sentencing guidelines and sentences.

3. Scope of Analysis

As discussed by the commission, the analysis in this study will focus on individuals sentenced between Jan. 1st, 2012 and Dec. 31st, 2017 and score within a straddle cell for Class D felony offenses.

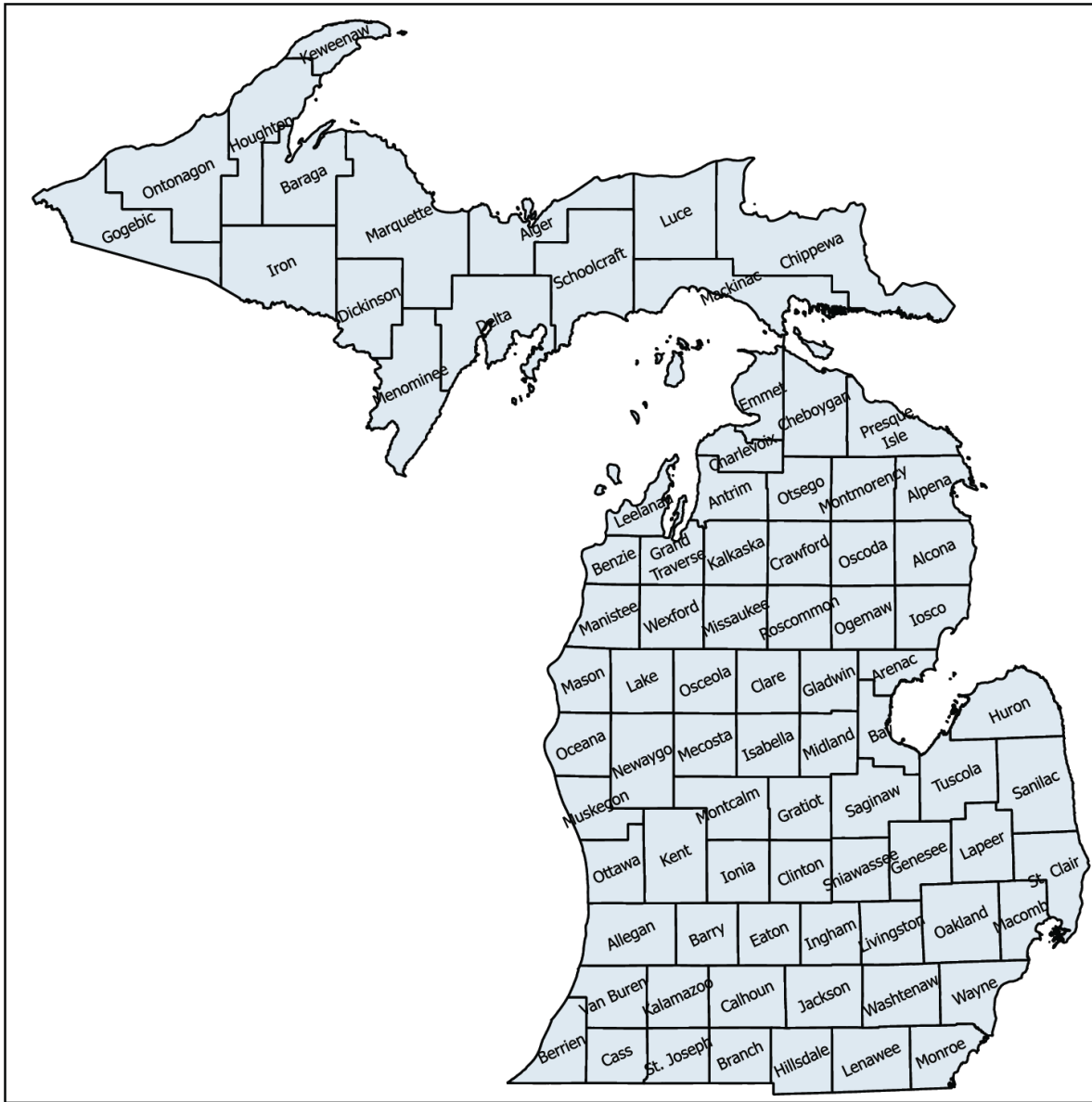
Furthermore, habitual offenders and those with special statuses² will be excluded while considering the initial sentencing decision.

¹ Following the May commission meeting, updated BIR datasets for 2017 were made available by the MDOC.

² Status at Offense variables include: HYTA, Probation, District Court Probation, Delay of Sentence, Parole, Jail, State Prisoner, Bond, Juvenile Court Supervision, Federal Probation, Federal Parole

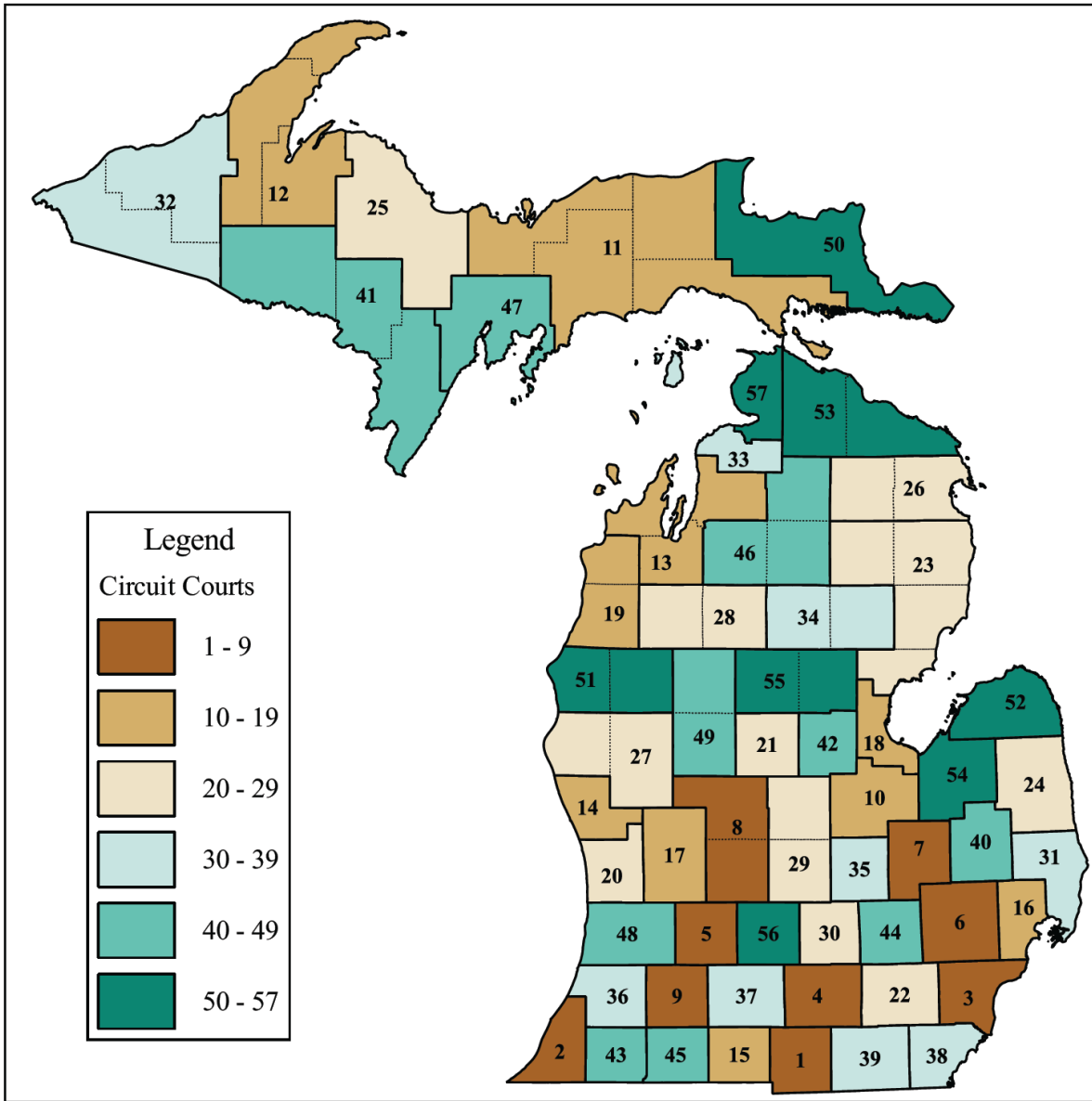
Straddle Cell Sentencing - Class D Offenses

Figure 1: Counties in Michigan



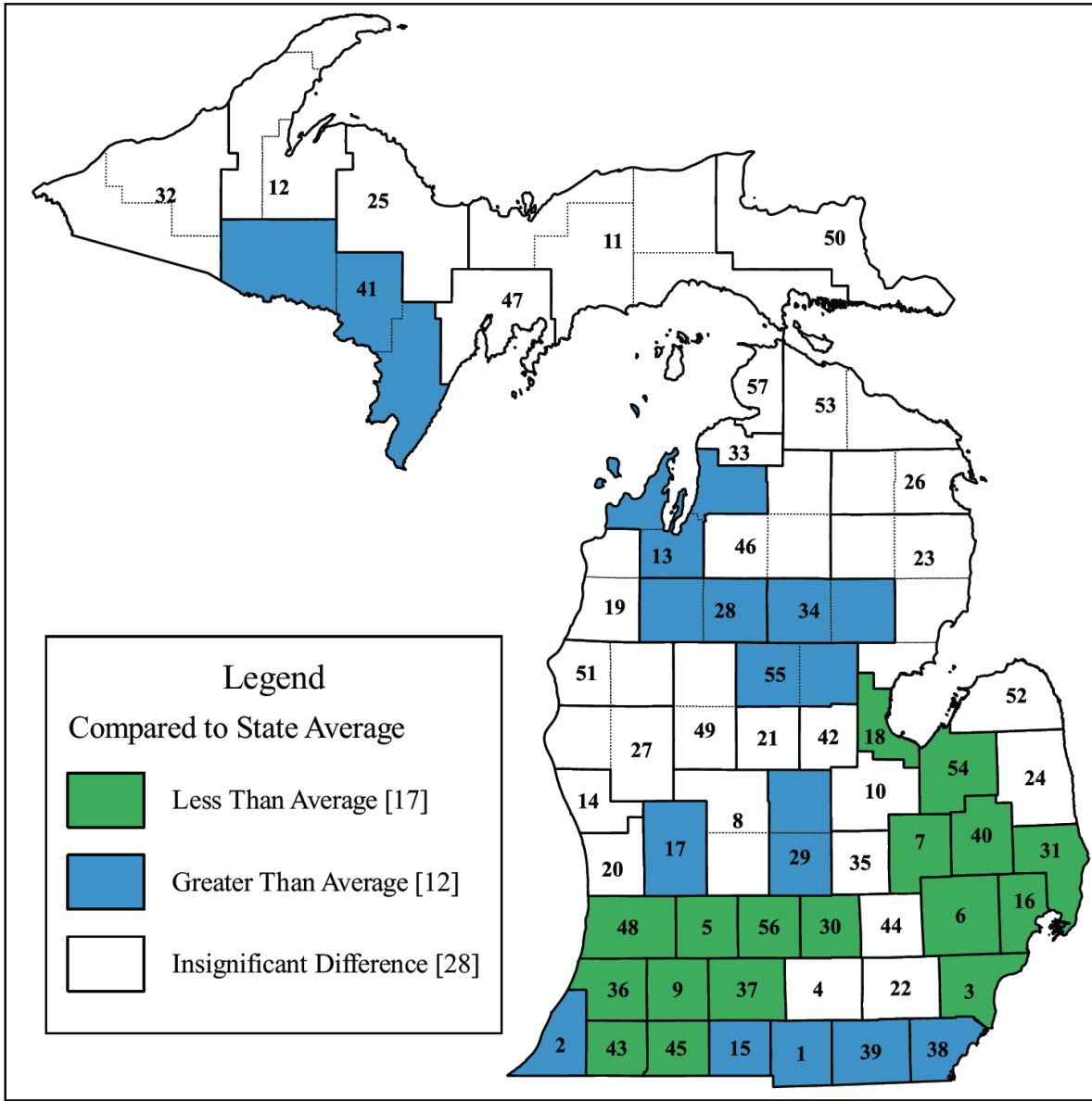
Straddle Cell Sentencing - Class D Offenses

Figure 2: Circuit Courts in Michigan



Straddle Cell Sentencing - Class D Offenses

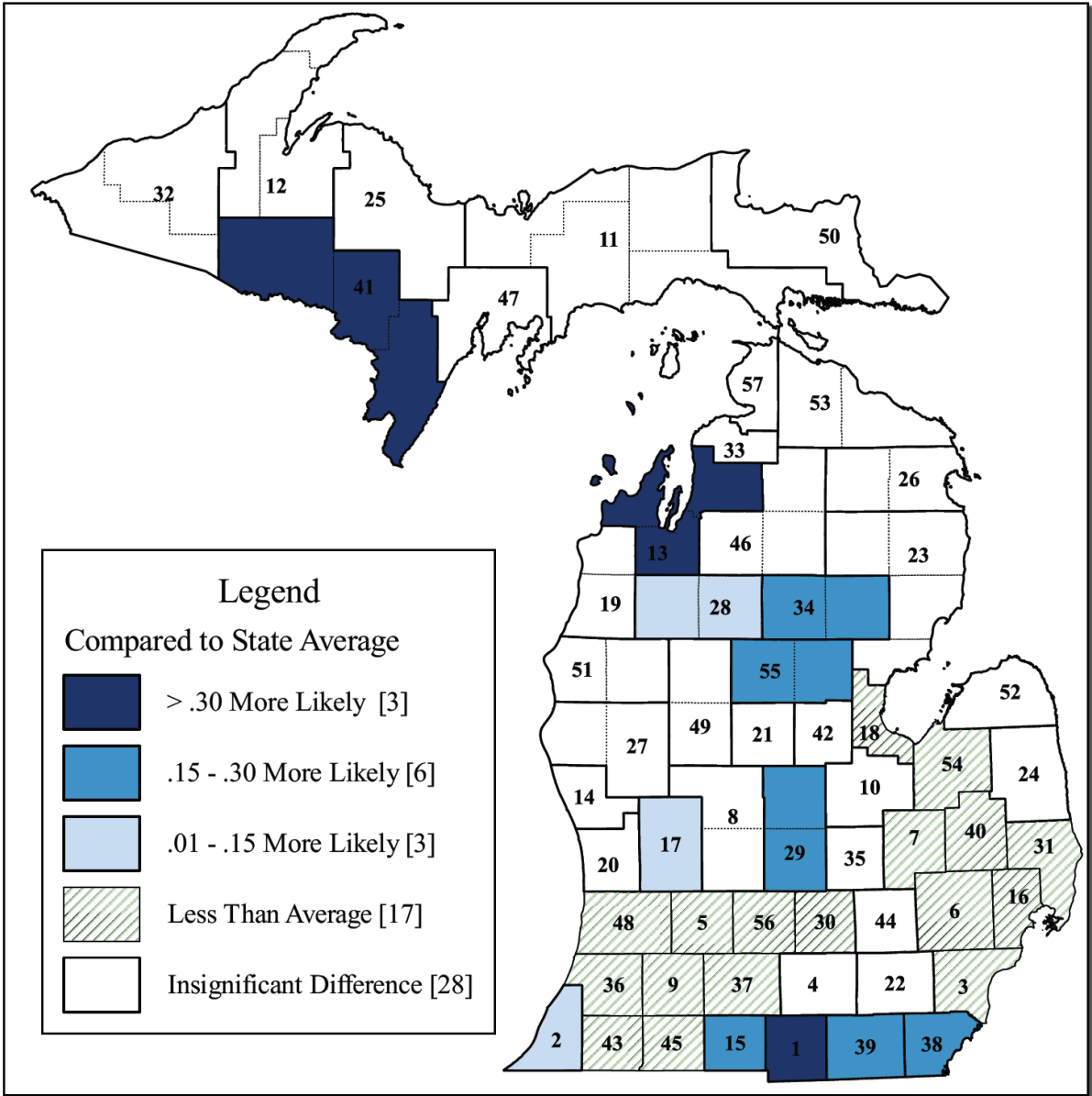
Figure 3a: Probability of Receiving a Prison Sentence
 - Comparing Circuit Courts to State Average -



The comparisons above show the difference between each circuit court's average and the statewide average (35.3%). Circuits that are green are on average less likely to impose prison sentences than the state average, while blue circuits are more likely to impose prison sentences. The sample for this analysis includes individuals sentenced between 2012-2017 and scored within a straddle cell for Class D offenses, excluding habitual offenders and those with a special status during the offense (e.g., HYTA, Probation, Parole). %

Straddle Cell Sentencing - Class D Offenses

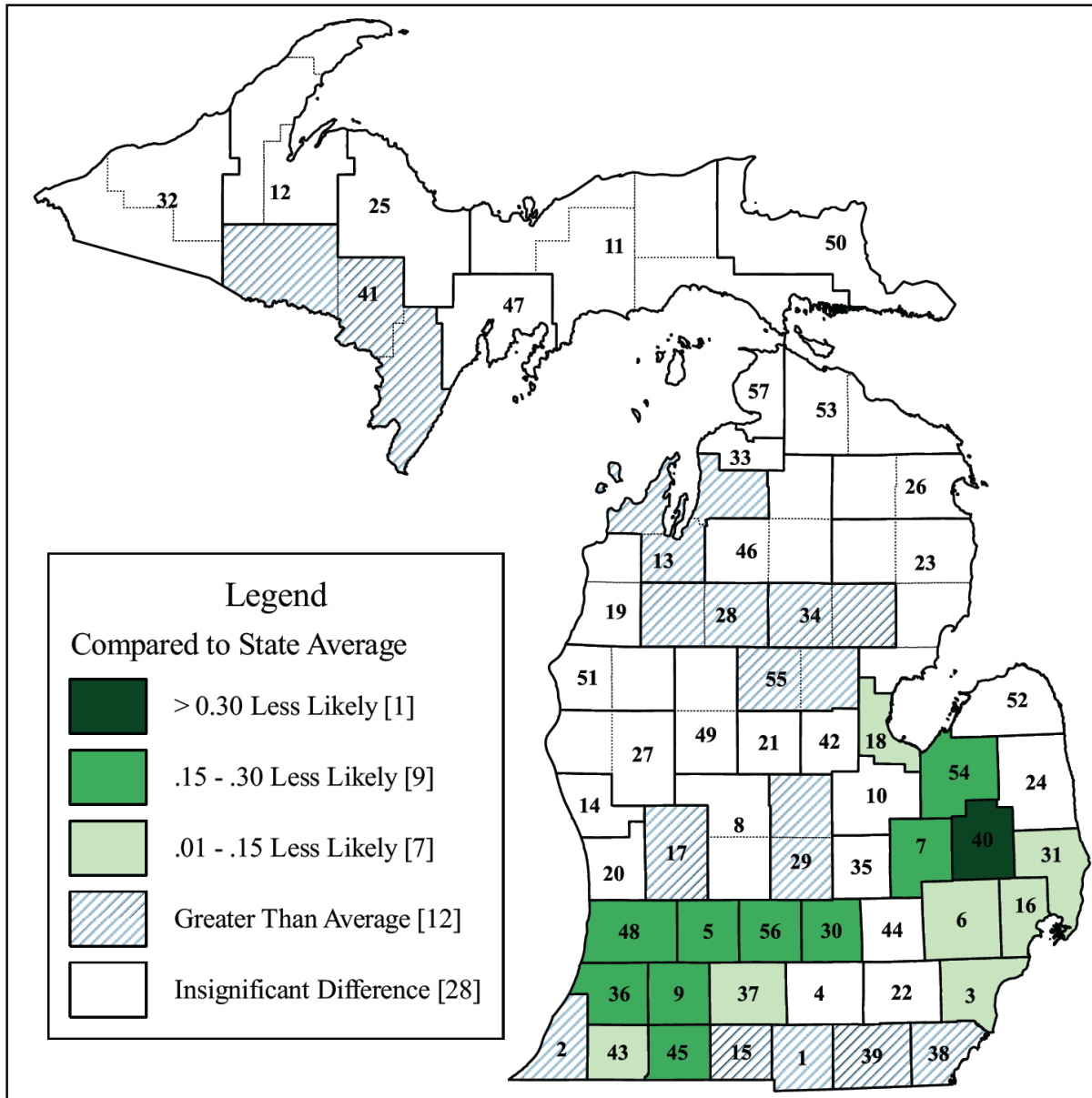
Figure 3b: Probability of Receiving a Prison Sentence
 - Comparing Circuit Courts to State Average -



The comparisons above show the difference between each circuit court's average and the statewide average (35.3%). Circuits colored blue are on average more likely to impose prison sentences than the state average. The three shades of blue (light, medium, dark) correspond to how far above average each circuit court is. The sample for this analysis includes individuals sentenced between 2012-2017 and scored within a straddle cell for Class D offenses, excluding habitual offenders and those with a special status during the offense (e.g., HYTA, Probation, Parole).

Straddle Cell Sentencing - Class D Offenses

Figure 3c: Probability of Receiving a Prison Sentence
 - Comparing Circuit Courts to State Average -



The comparisons above show the difference between each circuit court's average and the statewide average (35.3%). Circuits colored green are on average less likely to impose prison sentences than the state average. The three shades of green (light, medium, dark) correspond to how far below average each circuit court is. The sample for this analysis includes individuals sentenced between 2012-2017 and scored within a straddle cell for Class D offenses, excluding habitual offenders and those with a special status during the offense (e.g., HYTA, Probation, Parole).

**Table 1: Probability of an Offender Receiving a Prison Sentence
 by Circuit Court and Compared to State Average (35.3%)**

Circuit	Circuit Court Average		Difference from State Average		Counties
	Estimate	Std. Error	Estimate	Std. Error	
1	0.796***	0.072	0.443***	0.072	Hillsdale
2	0.459***	0.030	0.106***	0.032	Berrien
3	0.245***	0.014	-0.108***	0.020	Wayne
4	0.428***	0.050	0.075	0.051	Jackson
5	0.146	0.085	-0.207*	0.084	Barry
6	0.271***	0.038	-0.082*	0.039	Oakland
7	0.183***	0.027	-0.17***	0.030	Genesee
8	0.379***	0.048	0.026	0.048	Montcalm and Ionia
9	0.144***	0.030	-0.209***	0.032	Kalamazoo
10	0.264***	0.054	-0.089	0.055	Saginaw
11	0.404***	0.102	0.051	0.100	Luce, Mackinac, Schoolcraft, and Alger
12	0.188	0.190	-0.165	0.187	Houghton, Baraga and Keweenaw
13	0.659***	0.059	0.306***	0.059	Leelanau, Antrim and Grand Traverse
14	0.385***	0.053	0.032	0.054	Muskegon
15	0.6***	0.073	0.247***	0.072	Branch
16	0.23***	0.024	-0.123***	0.027	Macomb
17	0.498***	0.024	0.145***	0.027	Kent
18	0.219***	0.059	-0.134*	0.059	Bay
19	0.446***	0.110	0.093	0.109	Benzie, Manistee
20	0.262***	0.050	-0.091	0.051	Ottawa
21	0.279***	0.075	-0.074	0.075	Isabella
22	0.332***	0.038	-0.021	0.040	Washtenaw
23	0.369***	0.091	0.016	0.090	Iosco, Arenac, Alcona, Oscoda
24	0.259*	0.118	-0.094	0.116	Sanilac
25	0.48***	0.095	0.127	0.094	Marquette
26	0.434***	0.075	0.081	0.074	Alpena, Montmorency
27	0.339***	0.066	-0.014	0.066	Oceana, Newaygo
28	0.49***	0.062	0.137*	0.061	Wexford, Missaukee
29	0.522***	0.065	0.169***	0.065	Gratiot, Clinton
30	0.188***	0.040	-0.165***	0.041	Ingham
31	0.208***	0.042	-0.145***	0.043	St. Clair
32	0.469**	0.174	0.116	0.171	Ontonagon, Gogebic
33	0.458**	0.174	0.105	0.171	Charlevoix
34	0.6***	0.084	0.247**	0.083	Ogemaw, Roscommon
35	0.505***	0.103	0.152	0.102	Shiawassee
36	0.157***	0.045	-0.196***	0.045	Van Buren
37	0.226***	0.044	-0.127**	0.045	Calhoun
38	0.526***	0.056	0.173**	0.056	Monroe
39	0.576***	0.057	0.223***	0.057	Lenawee
40	-0.017	0.082	-0.37***	0.081	Lapeer
41	0.665***	0.129	0.312*	0.127	Iron, Dickinson, Menominee
42	0.292*	0.123	-0.061	0.121	Midland
43	0.216***	0.053	-0.137**	0.053	Cass
44	0.252**	0.081	-0.101	0.080	Livingston
45	0.186***	0.044	-0.168***	0.044	St. Joseph
46	0.477***	0.071	0.124	0.071	Otsego, Crawford, Kalkaska
47	0.26*	0.107	-0.093	0.106	Delta
48	0.159***	0.037	-0.194***	0.038	Allegan
49	0.471***	0.061	0.118	0.061	Osceola, Mecosta
50	0.428***	0.094	0.075	0.093	Chippewa
51	0.32**	0.114	-0.033	0.113	Mason, Lake
52	0.176	0.129	-0.177	0.127	Huron
53	0.25*	0.110	-0.103	0.108	Cheboygan, Presque Isle
54	0.132	0.072	-0.221**	0.072	Tuscola
55	0.632***	0.079	0.279***	0.078	Clare, Gladwin
56	0.099	0.098	-0.254**	0.097	Eaton
57	0.499***	0.114	0.146	0.112	Emmet

Significance Levels: * p<0.05, ** p<0.01, *** p<0.001

Table 2: Overview of Regression Results³

Variables	Statistically Significant	Relationship to Probability of a Prison Sentence
Cell (PRV, OVL)	Yes	Dependant on Comparison Cell
Sentence Guideline Crime Group	Yes	Dependant on Comparison Group
Offense Group 1 & 2	No	NA
Conviction Method (Trial vs Plea)	Yes	Increased Probability
Attorney Status (Retained vs Appointed)	Yes	Reduced Probability
Gender (Female vs Male)	Yes	Reduced Probability
Race	Yes	Dependant on Comparison Race
Ethnicity	No	NA
Age	Yes	Increased Probability up to age 37, then Reduced Probability
High School Diploma/GED	No	NA
Employed	Yes	Reduced Probability
Drug Abuse	No	NA
Alcohol Abuse	Yes	Increased Probability
Mental Health Treatment	No	NA
Circuit Court	Yes	See Figures 3a, 3b, and 3c

³ The sample for this analysis includes individuals sentenced between 2012-2017 and scored within a straddle cell for Class D offenses, excluding habitual offenders and those with a special status during the offense (HYTA, Probation, District Court Probation, Delay of Sentence, Parole, Jail, State Prisoner, Bond, Juvenile Court Supervision, Federal Probation, Federal Parole).

4. **Next Steps**

A. **Additional Considerations for Research Question 2**

- LPM vs Logit/Probit Models

B. **Incorporate Feedback Received Today**

C. **Modeling Research Question 3**

- Does the recidivism rate for those receiving a prison sentences differ significantly from those receiving intermediate sanctions?
- Given limitations of the data, clearly define the how recidivism is measured.

- APPENDIX -

Table A-1: Summary Statistics for Model Sample⁴

Variable	Obs.	Percent	Variable	Obs.	Percent
Cell (PRV, OVL)	5,479		Urban or Rural County	5,479	
A, VI	152	2.77%	Mostly Urban (< 50%)	4,149	75.73%
A, V	292	5.33%	Mostly Rural (50 to 99.9%)	1,235	22.54%
B, V	126	2.30%	Completely Rural (100%)	95	17.30%
B, IV	174	3.18%	Gender	5,479	
C, IV	428	7.81%	Female	575	10.49%
C, III	485	8.85%	Male	4,904	89.51%
D, III	282	5.15%	Race	5,443	
D, II	1,122	20.48%	American Indian or Alaskan Native	47	0.86%
E, II	521	9.51%	Asian	17	0.31%
E, I	1,061	19.36%	Black or African American	2,560	47.03%
F, I	836	15.26%	Native Hawaiian or Other Pacific	3	0.06%
Sentence Guideline			White	2,816	51.74%
Crime Group	5,479		Ethnicity	5,179	
Person	1,576	28.76%	Hispanic	194	3.73%
Property	1,118	20.41%	Non-Hispanic	5,003	96.27%
Controlled Substance	2,167	39.55%	High School Diploma/GED	5,235	
Public Order	194	3.54%	Yes	3,053	58.32%
Public Safety	83	1.51%	No	2,182	41.68%
Public Trust	341	6.22%	Employed	5,479	
Offense Group 1 & 2	5,479		Yes	1,813	33.09%
Group 1 (Assaultive)	2,274	41.50%	No	3,666	66.91%
Group 2 (Non-Assaultive)	3,205	58.50%	Drug Abuse	5,479	
Convicted By	5,479		Yes	3,602	65.74%
Bench	30	0.55%	No	1,877	34.26%
Jury	77	1.41%	Alcohol Abuse	5,479	
Nolo Contendere	639	11.66%	Yes	1,979	36.12%
Plea	4,664	85.13%	No	3,500	63.88%
Plea Under Advisement	69	1.26%	Mental Health Treatment	5,479	
Attorney Status	5,369		Yes	1,744	31.83%
Appointed	4,095	76.27%	No	3,735	68.17%
Retained	1,274	23.73%			

⁴ The sample for this analysis includes individuals sentenced between 2012-2017 and scored within a straddle cell for Class D offenses, excluding habitual offenders and those with a special status during the offense (HYTA, Probation, District Court Probation, Delay of Sentence, Parole, Jail, State Prisoner, Bond, Juvenile Court Supervision, Federal Probation, Federal Parole).

Table A-2: Regression Results - Linear Probability Models (1) - (11)

VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>	<i>Prison</i>
Sentence Guideline Crime Group											
Property	-0.015 (0.020)	-0.018 (0.021)	-0.015 (0.021)	-0.028 (0.020)	-0.034* (0.020)	-0.032 (0.020)	-0.035* (0.021)	-0.038* (0.021)	-0.040* (0.021)	-0.038* (0.021)	-0.027 (0.022)
Controlled Substance	-0.072*** (0.020)	-0.059** (0.026)	-0.054** (0.026)	-0.072*** (0.026)	-0.071*** (0.026)	-0.070*** (0.026)	-0.070*** (0.026)	-0.066** (0.027)	-0.067** (0.027)	-0.069** (0.027)	-0.068** (0.028)
Public Order	-0.147*** (0.032)	-0.135*** (0.036)	-0.138*** (0.037)	-0.173*** (0.036)	-0.174*** (0.036)	-0.176*** (0.036)	-0.180*** (0.036)	-0.191*** (0.037)	-0.190*** (0.037)	-0.190*** (0.037)	-0.182*** (0.038)
Public Safety	0.062 (0.054)	0.064 (0.054)	0.063 (0.052)	0.017 (0.051)	0.014 (0.051)	0.013 (0.050)	0.014 (0.051)	0.015 (0.054)	0.014 (0.054)	0.015 (0.054)	0.044 (0.056)
Public Trust	0.199*** (0.033)	0.212*** (0.037)	0.213*** (0.037)	0.194*** (0.037)	0.198*** (0.037)	0.204*** (0.037)	0.207*** (0.037)	0.212*** (0.038)	0.211*** (0.038)	0.209*** (0.038)	0.193*** (0.039)
Group 1 Offense		0.019 (0.023)	0.010 (0.023)	0.013 (0.023)	0.015 (0.023)	0.009 (0.023)	0.008 (0.023)	0.012 (0.024)	0.011 (0.024)	0.010 (0.024)	-0.003 (0.024)
Jury or Bench Trial			0.322*** (0.046)	0.293*** (0.046)	0.291*** (0.045)	0.297*** (0.045)	0.295*** (0.046)	0.283*** (0.047)	0.284*** (0.047)	0.283*** (0.047)	0.288*** (0.047)
Attorney Retained			-0.056*** (0.014)	-0.064*** (0.014)	-0.066*** (0.014)	-0.069*** (0.014)	-0.068*** (0.014)	-0.069*** (0.015)	-0.068*** (0.015)	-0.070*** (0.015)	-0.059*** (0.015)
Female Offender						-0.085*** (0.018)	-0.087*** (0.018)	-0.089*** (0.019)	-0.088*** (0.019)	-0.091*** (0.019)	-0.102*** (0.019)
Race											
American Indian or Alaskan Native							0.079 (0.071)	0.045 (0.071)	0.044 (0.071)	0.044 (0.071)	0.052 (0.071)
Asian							-0.210*** (0.057)	-0.206*** (0.063)	-0.207*** (0.063)	-0.209*** (0.062)	-0.235*** (0.054)
Black or African American							-0.016 (0.015)	-0.013 (0.015)	-0.014 (0.015)	-0.013 (0.015)	-0.014 (0.016)
Native Hawaiian or Other Pacific							-0.164*** (0.059)	-0.166*** (0.058)	-0.162*** (0.056)	-0.168*** (0.055)	-0.159*** (0.052)
Hispanic								0.049 (0.034)	0.049 (0.034)	0.048 (0.034)	0.038 (0.034)
Age									-0.001 (0.001)	0.005 (0.003)	0.009*** (0.003)
Age Squared										-0.000* (0.000)	-0.00012*** (0.000)
High School Diploma/GED											-0.018 (0.013)
Employed											-0.060*** (0.013)
Drug Abuse											0.012 (0.015)
Alcohol Abuse											0.047*** (0.014)
Mental Health Treatment											0.011 (0.014)
Constant	0.274*** (0.022)	0.263*** (0.026)	0.273*** (0.027)	0.195*** (0.029)	0.216*** (0.032)	0.232*** (0.032)	0.251*** (0.033)	0.237*** (0.034)	0.260*** (0.039)	0.168*** (0.063)	0.113* (0.065)
Cell Fixed Effects	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Circuit Court Fixed Effects				✓	✓	✓	✓	✓	✓	✓	✓
Year Fixed Effects					✓	✓	✓	✓	✓	✓	✓
Observations	5,479	5,479	5,369	5,369	5,369	5,369	5,333	5,064	5,064	5,064	4,841
Adjusted R-squared	0.040	0.039	0.051	0.133	0.137	0.140	0.140	0.137	0.138	0.138	0.149

Robust standard errors in parentheses, *** p<0.01, ** p<0.05, * p<0.1

The sample for this analysis includes individuals sentenced between 2012-2017 and scored within a straddle cell for Class D offenses, excluding habitual offenders and those with a special status during the offense (HYTA, Probation, District Court Probation, Delay of Sentence, Parole, Jail, State Prisoner, Bond, Juvenile Court Supervision, Federal Probation, Federal Parole).

Table A-3: Regression Output for Full Model (11)

Linear regression

Number of obs = 4,841
 F(92, 4748) = 14.19
 Prob > F = 0.0000
 R-squared = 0.1652
 Root MSE = .42349

prison	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
cell						
A6	.2888395	.0485813	5.95	0.000	.1935976	.3840813
A5	.0607642	.0368563	1.65	0.099	-.0114913	.1330198
B5	.0914095	.0511876	1.79	0.074	-.0089418	.1917609
B4	-.0083212	.0420428	0.20	0.843	-.0741022	.0907445
C4	.0770913	.0313855	2.46	0.014	.0155612	.1386215
D3	.1466399	.036622	4.00	0.000	.0748437	.2184361
D2	-.0096642	.0263391	0.37	0.714	-.0419726	.0613011
E2	.1497764	.0325648	4.60	0.000	.0859343	.2136185
E1	.0134214	.0292442	0.46	0.646	-.0439108	.0707536
F1	.1112352	.0313798	3.54	0.000	.0497163	.1727542
group						
Property	-.0266109	.022073	-1.21	0.228	-.0698842	.0166625
CS	-.0681383	.0280359	-2.43	0.015	-.1231017	-.013175
Pub Order	-.1815371	.0379163	-4.79	0.000	-.2558707	-.1072036
Pub Safety	.0439945	.0560784	0.78	0.433	-.0659452	.1539341
Pub Trust	.1929347	.0391449	4.93	0.000	.1161927	.2696768
grp1	-.0034513	.024338	-0.14	0.887	-.051165	.0442624
trial	.2882914	.0474352	6.08	0.000	.1952964	.3812864
retain	-.0589397	.0152667	-3.86	0.000	-.0888695	-.02901
female	-.1020034	.0193543	-5.27	0.000	-.1399469	-.0640599
race						
American Indian or Alaskan Native	.0518604	.0738338	0.70	0.482	-.0928881	.1966089
Asian	-.2345226	.0543819	-4.31	0.000	-.3411364	-.1279088
Black or African American	-.0138438	.0159037	-0.87	0.384	-.0450225	.0173349
Native Hawaiian or Other Pacific	-.159269	.0519437	-3.07	0.002	-.2611028	-.0574351
hispanic	.0380786	.0344331	1.11	0.269	-.0294262	.1055834
age	.0088701	.0031339	2.83	0.005	.0027261	.015014
c.age#c.age	-.0001196	.0000384	-3.11	0.002	-.0001949	-.0000443
hs	-.0184105	.0131675	-1.40	0.162	-.044225	.007404
employed	-.0601343	.0134179	-4.48	0.000	-.0864395	-.0338291
drug	.0119506	.0148151	0.81	0.420	-.0170939	.040995
alcohol	.0465737	.0142041	3.28	0.001	.0187271	.0744204
mental_h	.011418	.0140469	0.81	0.416	-.0161203	.0389563

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circuit							
1	.5511001	.0592252	9.31	0.000	.4349913	.6672089	
2	.2140471	.03609	5.93	0.000	.143294	.2848003	
4	.1826832	.0579043	3.15	0.002	.0691639	.2962026	
5	-.0995484	.0717828	-1.39	0.166	-.240276	.0411791	
6	.0252925	.0405023	0.62	0.532	-.0541108	.1046959	
7	-.0619761	.0274304	-2.26	0.024	-.1157525	-.0081998	
8	.1340107	.0566774	2.36	0.018	.0228966	.2451247	
9	-.1012221	.0269567	-3.75	0.000	-.1540698	-.0483744	
10	.0185586	.0538579	0.34	0.730	-.0870279	.1241452	
11	.1589384	.105424	1.51	0.132	-.0477414	.3656182	
12	-.0575298	.1844547	-0.31	0.755	-.4191466	.3040869	
13	.4133537	.0677625	6.10	0.000	.2805077	.5461997	
14	.1394517	.0569161	2.45	0.014	.0278697	.2510336	
15	.3549636	.0847126	4.19	0.000	.1888875	.5210396	
16	-.0151732	.0266201	-0.57	0.569	-.067361	.0370146	
17	.2531421	.0303107	8.35	0.000	.193719	.3125651	
18	-.0259095	.0622313	-0.42	0.677	-.1479117	.0960926	
19	.2003311	.1392872	1.44	0.150	-.0727365	.4733986	
20	.0170577	.0553427	0.31	0.758	-.0914396	.1255549	
21	.0340972	.0745544	0.46	0.647	-.1120641	.1802585	
22	.0871539	.0427819	2.04	0.042	.0032815	.1710264	
23	.1240275	.1031068	1.20	0.229	-.0781096	.3261646	
24	.0142347	.112656	0.13	0.899	-.2066233	.2350927	
25	.2349365	.1071145	2.19	0.028	.0249424	.4449306	
26	.1889243	.0927297	2.04	0.042	.007131	.3707176	
27	.0941854	.0760368	1.24	0.216	-.0548819	.2432528	
28	.2448813	.073811	3.32	0.001	.1001775	.3895851	
29	.27706	.0726194	3.82	0.000	.1346923	.4194276	
30	-.0571775	.0350146	-1.63	0.103	-.1258223	.0114674	
31	-.0372982	.0415111	-0.90	0.369	-.1186792	.0440827	
32	.2238893	.2020429	1.11	0.268	-.1722084	.619987	
33	.2131947	.1792286	1.19	0.234	-.1381765	.5645659	
34	.3546103	.0951677	3.73	0.000	.1680375	.5411831	
35	.259657	.1191594	2.18	0.029	.0260494	.4932646	
36	-.0879823	.0386266	-2.28	0.023	-.1637084	-.0122562	
37	-.0196663	.0445322	-0.44	0.659	-.10697	.0676374	
38	.2806948	.0606684	4.63	0.000	.1617565	.399633	
39	.330442	.063986	5.16	0.000	.2049998	.4558842	
40	-.2617815	.0436846	-5.99	0.000	-.3474235	-.1761394	
41	.4200409	.1459782	2.88	0.004	.1338559	.7062226	
42	.0464339	.1268226	0.37	0.714	-.2021972	.295065	
43	-.0296177	.051147	-0.58	0.563	-.1298896	.0706541	
44	.0064072	.0775718	0.08	0.934	-.1456696	.158484	
45	-.0597168	.0406183	-1.47	0.142	-.1393476	.0199139	
46	.2313012	.0777498	2.97	0.003	.0788756	.3837269	
47	.0148205	.1120234	0.13	0.895	-.2047974	.2344384	
48	-.08654	.0378876	-2.28	0.022	-.1608173	-.0122627	
49	.2257672	.0714924	3.16	0.002	.085609	.3659254	
50	.1827151	.1099188	1.66	0.097	-.0327766	.3982069	
51	.0751534	.1268939	0.59	0.554	-.1736175	.3239244	
52	-.0687547	.1222032	-0.56	0.574	-.3083296	.1708202	
53	.0045286	.126076	0.04	0.971	-.2426388	.251696	
54	-.1132912	.0669799	-1.69	0.091	-.2446028	.0180204	
55	.3872752	.087398	4.43	0.000	.2159347	.5586158	
56	-.1458308	.047286	-3.08	0.002	-.2385333	-.0531282	
57	.2537371	.1331248	1.91	0.057	-.0072492	.5147234	
disp_year							
2013	-.0137413	.0215324	-0.64	0.523	-.0559547	.028472	
2014	.0098791	.0215509	0.46	0.647	-.0323705	.0521288	
2015	-.027323	.0214618	-1.27	0.203	-.069398	.0147521	
2016	-.0267702	.0216554	-1.24	0.216	-.0692248	.0156845	
2017	-.0839995	.0211412	-3.97	0.000	-.1254461	-.042553	
_cons	.1133023	.065249	1.74	0.083	-.0146159	.2412206	