Linear Model using Development Dataset

The REG Procedure
Model: AP_TRACK
Dependent Variable: handle

Number of Observations Read	1199
Number of Observations Used	1199

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	120	1.016195E14	8.468292E11	Infty	<.0001
Error	1078	0	0		
Corrected Total	1198	1.016195E14			

Root MSE	0	**R-Square**	1.0000
Dependent Mean	446334	**Adj R-Sq**	1.0000
Coeff Var	0		

Note: Model is not full rank. Least-squares solutions for the parameters are not unique. Some statistics will be misleading. A reported DF of 0 or B means that the estimate is biased.

Note: The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

track_id_AP =	Intercept
track_id_CRC =	0
race_number_12 =	Intercept - race_number_1 - race_number_2 - race_number_3 - race_number_4 - race_number_5 - race_number_6 - race_number_7 - race_number_8 - race_number_9 - race_number_10 - race_number_11
race_number_13 =	0
race_type_CAN =	0
age_restriction_03 =	Intercept - age_restriction_3U - age_restriction_02 - age_restriction_34
age_restriction_35 =	0
age_restriction_45 =	0
age_restriction_4U =	0
stakes_indicator_N =	Intercept - race_type_STK
distance_id_832 =	0
distance_id_818 =	0
distance_id_200 =	0
track_condition_WF =	Intercept - track_condition_FT - track_condition_FM - track_condition_SY - track_condition_GD - track_condition_YL - track_condition_MY - track_condition_SF
weather_R =	Intercept - weather_C - weather_L - weather_O - weather_H
minimum_claim_price___0 =	Intercept - race_type_CLM - race_type_MCL - race_type_AOC
minimum_claim_price_12K =	0
minimum_claim_price_32K =	0
maximum_claim_price__16K =	0
maximum_claim_price__50K =	minimum_claim_price_40K + minimum_claim_price_50K
maximum_claim_price__32K =	0
maximum_claim_price__62K =	minimum_claim_price_62K
maximum_claim_price___6K =	minimum_claim_price__6K
maximum_claim_price__18K =	minimum_claim_price_16K
abbreviated_name_RACE_HAS =	race_type_STK
race_date_Super_Bowl =	0
race_date_Patricks_Day =	0
race_date_Good_Friday =	0

race_date_Easter =	0
race_date_Veterans_Day =	0
race_date_Thanksgiving =	0
race_date_Boxing_Day =	0
race_date_New_Year_Day =	0

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	B	9.73893E-8	0	Infty	<.0001
wps_pool	wps_pool	1	1.00000	0	Infty	<.0001
total_pool_sum	total_pool	1	1.00000	0	Infty	<.0001
track_id_AP		0	0	.	.	.
track_id_CRC		0	0	.	.	.
race_number_1		B	-2.69801E-8	0	-Infty	<.0001
race_number_2		B	-2.64162E-8	0	-Infty	<.0001
race_number_3		B	-2.69934E-8	0	-Infty	<.0001
race_number_4		B	-2.67396E-8	0	-Infty	<.0001
race_number_5		B	-2.67269E-8	0	-Infty	<.0001
race_number_6		B	-2.65936E-8	0	-Infty	<.0001
race_number_7		B	-2.67572E-8	0	-Infty	<.0001
race_number_8		B	-2.66629E-8	0	-Infty	<.0001
race_number_9		B	-2.61152E-8	0	-Infty	<.0001
race_number_10		B	-2.61005E-8	0	-Infty	<.0001
race_number_11		B	-3.20276E-8	0	-Infty	<.0001
race_number_12		0	0	.	.	.
race_number_13		0	0	.	.	.
conditions_of_race_NW2_L		1	-5.987E-10	0	-Infty	<.0001
conditions_of_race_NW1_X		1	5.60427E-10	0	Infty	<.0001
conditions_of_race_NW2_X		1	3.24418E-10	0	Infty	<.0001
conditions_of_race_NW3_L		1	1.70073E-10	0	Infty	<.0001
conditions_of_race_C		1	4.12195E-10	0	Infty	<.0001
conditions_of_race_NW3_X		1	-1.4159E-10	0	-Infty	<.0001
conditions_of_race_OTHER		1	2.95755E-10	0	Infty	<.0001
race_type_CLM		B	-2.91625E-8	0	-Infty	<.0001
race_type_MCL		B	-2.77925E-8	0	-Infty	<.0001
race_type_MSW		1	4.681213E-9	0	Infty	<.0001
race_type_AOC		B	-3.04494E-8	0	-Infty	<.0001
race_type_ALW		1	2.041664E-9	0	Infty	<.0001
race_type_STK		B	1.744169E-9	0	Infty	<.0001
race_type_STR		1	-2.03508E-8	0	-Infty	<.0001
race_type_CAN		0	0	.	.	.
age_restriction_3U		B	-5.6562E-10	0	-Infty	<.0001
age_restriction_02		B	-1.8772E-9	0	-Infty	<.0001
age_restriction_34		B	-2.01124E-9	0	-Infty	<.0001
age_restriction_03		0	0	.	.	.
age_restriction_35		0	0	.	.	.
age_restriction_45		0	0	.	.	.
age_restriction_4U		0	0	.	.	.
sex_restriction_B		1	2.94227E-10	0	Infty	<.0001
sex_restriction_F		1	-2.2192E-10	0	-Infty	<.0001
stakes_indicator_N		0	0	.	.	.

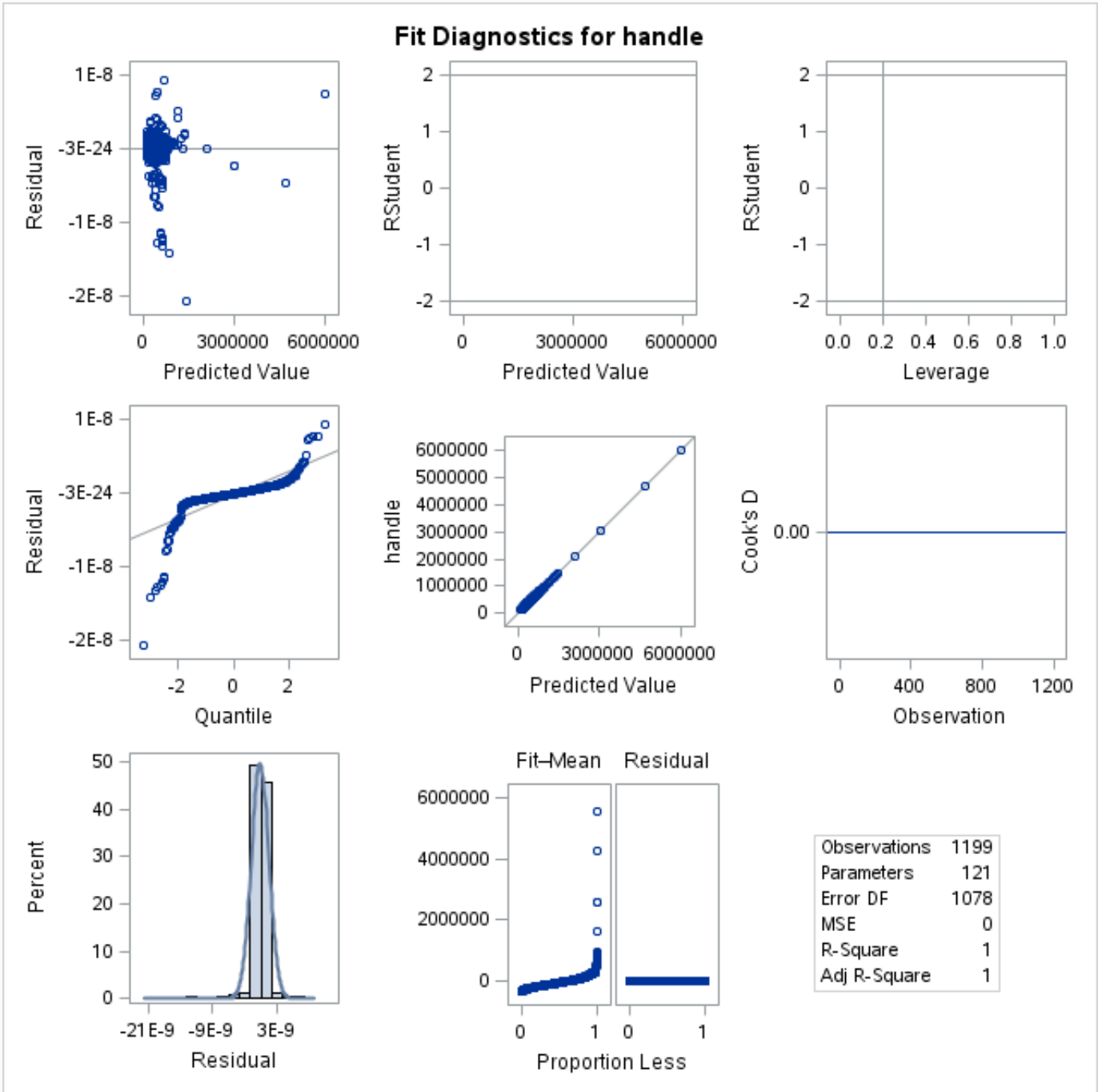
distance_id_600		1	-5.08323E-9	0	-Infty	<.0001
distance_id_800		1	-5.47748E-9	0	-Infty	<.0001
distance_id_850		1	-5.91751E-9	0	-Infty	<.0001
distance_id_550		1	-5.17981E-9	0	-Infty	<.0001
distance_id_700		1	-5.11177E-9	0	-Infty	<.0001
distance_id_500		1	-5.77947E-9	0	-Infty	<.0001
distance_id_650		1	-5.49217E-9	0	-Infty	<.0001
distance_id_900		1	-5.26322E-9	0	-Infty	<.0001
distance_id_832		0	0	.	.	.
distance_id_450		1	-5.74004E-9	0	-Infty	<.0001
distance_id_750		1	-5.11438E-9	0	-Infty	<.0001
distance_id_818		0	0	.	.	.
distance_id_1200		1	-5.09E-9	0	-Infty	<.0001
distance_id_1000		1	-6.21874E-9	0	-Infty	<.0001
distance_id_200		0	0	.	.	.
distance_id_950		1	-1.03542E-8	0	-Infty	<.0001
about_distance_indicator_A		1	-1.8215E-10	0	-Infty	<.0001
course_type_T		1	1.273871E-9	0	Infty	<.0001
purse_usa_30K		1	-1.9747E-11	0	-Infty	<.0001
purse_usa_40K		1	6.06607E-10	0	Infty	<.0001
purse_usa_100K		1	4.65718E-10	0	Infty	<.0001
purse_usa_MT_100K		1	2.02456E-9	0	Infty	<.0001
track_condition_FT		B	-4.60845E-9	0	-Infty	<.0001
track_condition_FM		B	-5.78228E-9	0	-Infty	<.0001
track_condition_SY		B	-4.22732E-9	0	-Infty	<.0001
track_condition_GD		B	-5.48533E-9	0	-Infty	<.0001
track_condition_YL		B	-6.53945E-9	0	-Infty	<.0001
track_condition_MY		B	-3.88133E-9	0	-Infty	<.0001
track_condition_SF		B	-5.79261E-9	0	-Infty	<.0001
track_condition_WF		0	0	.	.	.
weather_C		B	1.18007E-10	0	Infty	<.0001
weather_L		B	-3.6146E-11	0	-Infty	<.0001
weather_O		B	-1.9875E-10	0	-Infty	<.0001
weather_H		B	1.01286E-10	0	Infty	<.0001
weather_R		0	0	.	.	.
minimum_claim_price___0		0	0	.	.	.
minimum_claim_price_10K		1	1.163163E-8	0	Infty	<.0001
minimum_claim_price_16K		B	-1.44539E-8	0	-Infty	<.0001
minimum_claim_price_25K		1	1.027001E-9	0	Infty	<.0001
minimum_claim_price_12K		0	0	.	.	.
minimum_claim_price_40K		B	-1.41424E-8	0	-Infty	<.0001
minimum_claim_price_20K		1	1.322365E-9	0	Infty	<.0001
minimum_claim_price_50K		B	-1.43053E-8	0	-Infty	<.0001
minimum_claim_price__5K		1	1.655349E-8	0	Infty	<.0001
minimum_claim_price_32K		0	0	.	.	.
minimum_claim_price_30K		1	9.77344E-10	0	Infty	<.0001
minimum_claim_price_15K		1	4.085401E-9	0	Infty	<.0001
minimum_claim_price__9K		1	1.141333E-8	0	Infty	<.0001
minimum_claim_price__8K		1	1.19754E-8	0	Infty	<.0001
minimum_claim_price_62K		B	-1.35957E-8	0	-Infty	<.0001
minimum_claim_price__7K		1	-1.43937E-8	0	-Infty	<.0001

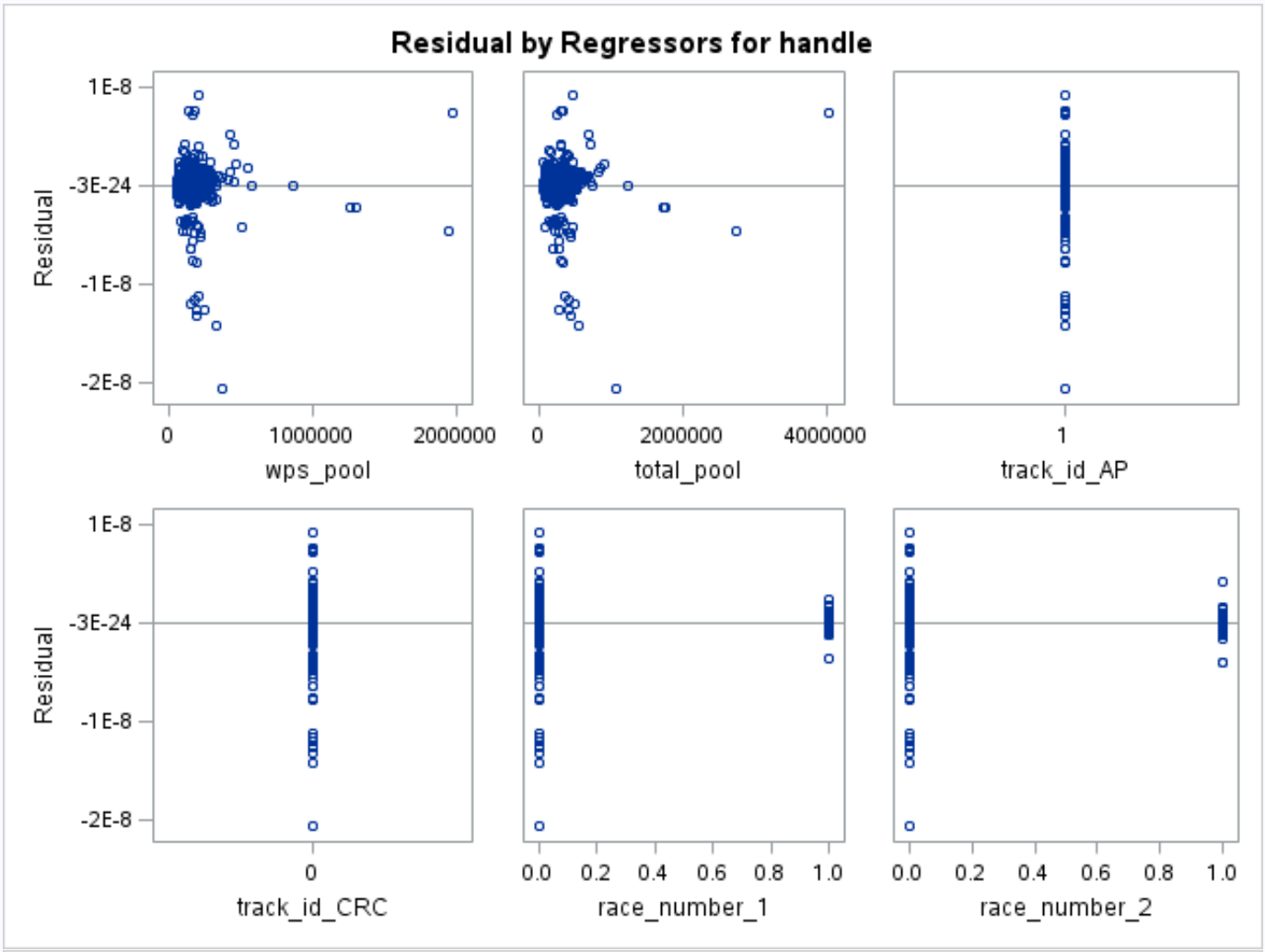
minimum_claim_price__6K		B	-1.46889E-8	0	-Infty	<.0001
minimum_claim_price_17K		1	4.048846E-9	0	Infty	<.0001
minimum_claim_price__4K		1	-1.45649E-8	0	-Infty	<.0001
minimum_claim_price_18K		1	2.927619E-9	0	Infty	<.0001
maximum_claim_price_100K		1	-1.36485E-8	0	-Infty	<.0001
maximum_claim_price____0		1	-4.64526E-8	0	-Infty	<.0001
maximum_claim_price__10K		1	-2.57712E-8	0	-Infty	<.0001
maximum_claim_price__25K		1	-1.55568E-8	0	-Infty	<.0001
maximum_claim_price__16K		0	0	.	.	.
maximum_claim_price__12K		1	-2.59005E-8	0	-Infty	<.0001
maximum_claim_price__40K		1	-1.44263E-8	0	-Infty	<.0001
maximum_claim_price__50K		0	0	.	.	.
maximum_claim_price___5K		1	-3.07338E-8	0	-Infty	<.0001
maximum_claim_price__20K		1	-1.71574E-8	0	-Infty	<.0001
maximum_claim_price__32K		0	0	.	.	.
maximum_claim_price__15K		1	-1.86194E-8	0	-Infty	<.0001
maximum_claim_price__35K		1	-1.52682E-8	0	-Infty	<.0001
maximum_claim_price__30K		1	-1.50529E-8	0	-Infty	<.0001
maximum_claim_price___8K		1	-1.4435E-8	0	-Infty	<.0001
maximum_claim_price__17K		1	-1.84299E-8	0	-Infty	<.0001
maximum_claim_price__62K		0	0	.	.	.
maximum_claim_price___6K		0	0	.	.	.
maximum_claim_price__18K		0	0	.	.	.
maximum_claim_price__14K		1	-1.5944E-8	0	-Infty	<.0001
maximum_claim_price__13K		1	-1.44529E-8	0	-Infty	<.0001
maximum_claim_price__80K		1	-1.42588E-8	0	-Infty	<.0001
grade_1		1	6.65874E-9	0	Infty	<.0001
grade_2		1	4.036831E-9	0	Infty	<.0001
grade_3		1	-5.8378E-10	0	-Infty	<.0001
number_of_runners__3		1	-1.576E-8	0	-Infty	<.0001
number_of_runners__4		1	-1.50755E-8	0	-Infty	<.0001
number_of_runners__5		1	-1.52359E-8	0	-Infty	<.0001
number_of_runners__6		1	-1.45266E-8	0	-Infty	<.0001
number_of_runners__7		1	-1.44579E-8	0	-Infty	<.0001
number_of_runners__8		1	-1.43235E-8	0	-Infty	<.0001
number_of_runners__9		1	-1.43457E-8	0	-Infty	<.0001
number_of_runners_10		1	-1.42664E-8	0	-Infty	<.0001
number_of_runners_11		1	-1.38454E-8	0	-Infty	<.0001
number_of_runners_12		1	-1.3931E-8	0	-Infty	<.0001
abbreviated_name_RACE_HAS		0	0	.	.	.
track_sealed_indicator_Y		1	-1.28531E-9	0	-Infty	<.0001
track_sealed_indicator_N		1	-5.1666E-10	0	-Infty	<.0001
race_date_Super_Bowl		0	0	.	.	.
race_date_Patricks_Day		0	0	.	.	.
race_date_Good_Friday		0	0	.	.	.
race_date_Easter		0	0	.	.	.
race_date_Cinco_Mayo		1	-2.9544E-10	0	-Infty	<.0001
race_date_Memorial_Day		1	4.69699E-10	0	Infty	<.0001
race_date_Indep_Day		1	-1.627E-10	0	-Infty	<.0001
race_date_Labor_Day		1	-4.4482E-10	0	-Infty	<.0001
race_date_Veterans_Day		0	0	.	.	.

race_date_Thanksgiving		0	0	.	.	.
race_date_Boxing_Day		0	0	.	.	.
race_date_New_Year_Day		0	0	.	.	.
race_weekday_Sun		1	-1.10029E-9	0	-Infty	<.0001
race_weekday_Mon		1	-1.67793E-9	0	-Infty	<.0001
race_weekday_Wed		1	-1.05773E-9	0	-Infty	<.0001
race_weekday_Thu		1	-1.01097E-9	0	-Infty	<.0001
race_weekday_Fri		1	-9.7645E-10	0	-Infty	<.0001
race_weekday_Sat		1	-1.28586E-9	0	-Infty	<.0001

Linear Model using Development Dataset

The REG Procedure
Model: AP_TRACK
Dependent Variable: handle




Residual by Regressors for handle
Residual
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-1E-8
-2E-8
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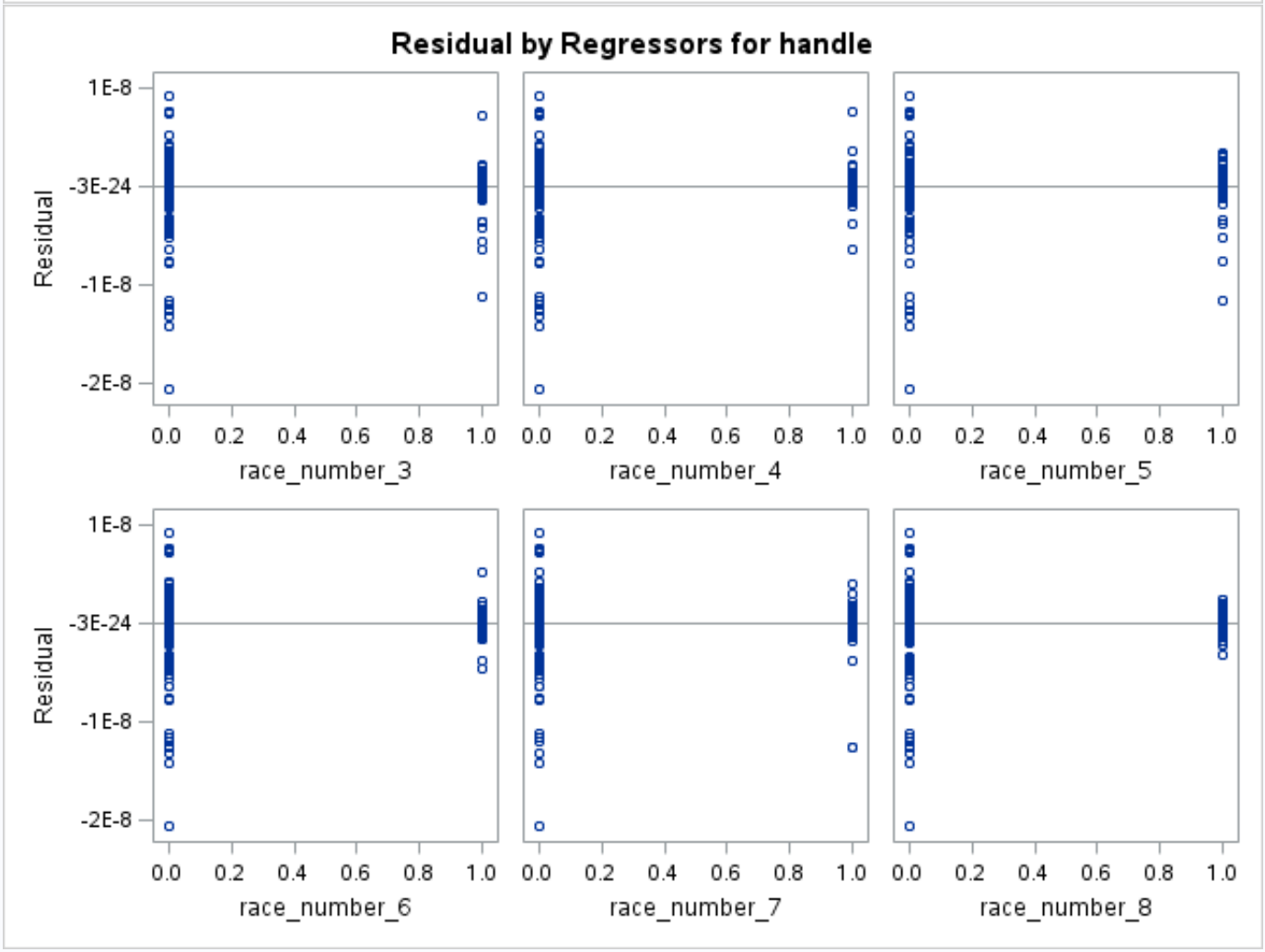
1000000
2000000
wps_pool
0
2000000
4000000
total_pool
1
track_id_AP
0
track_id_CRC
0.0
0.2
0.4
0.6
0.8
1.0
race_number_1
race_number_2


Residual by Regressors for handle
Residual
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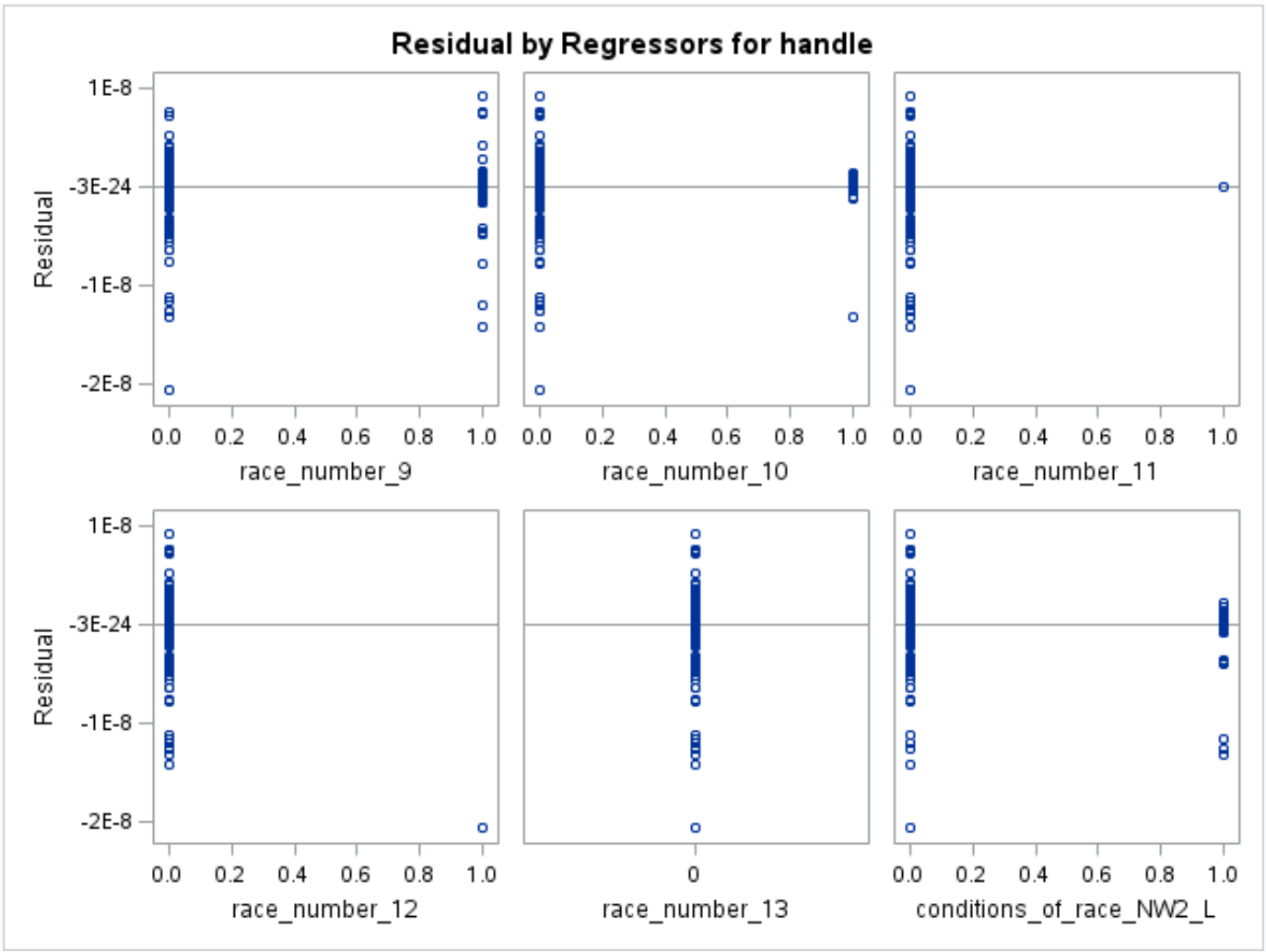
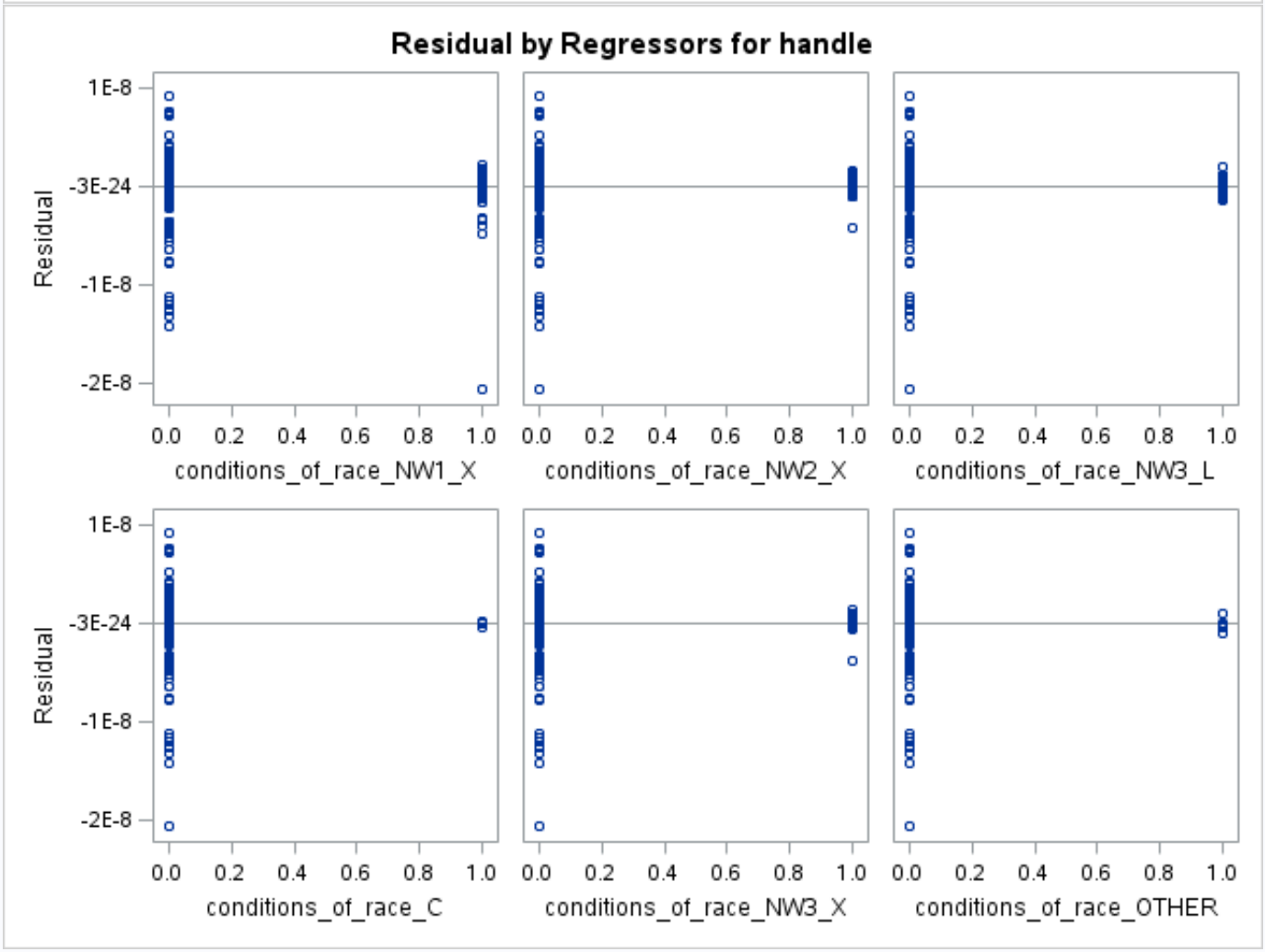
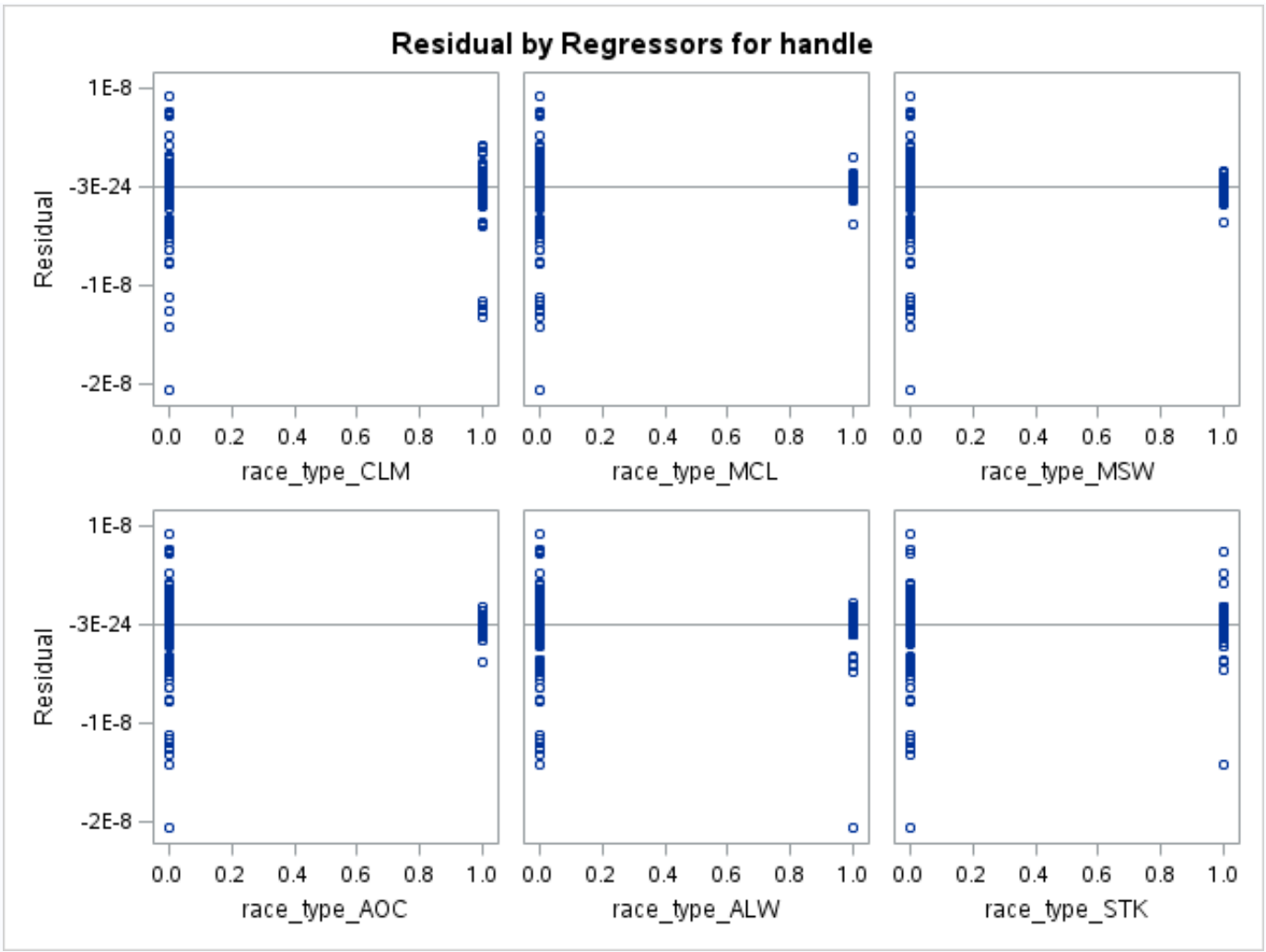
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_number_3
race_number_4
race_number_5
race_number_6
race_number_7
race_number_8


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_number_9
race_number_10
race_number_11
race_number_12
0
race_number_13
conditions_of_race_NW2_L


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
conditions_of_race_NW1_X
conditions_of_race_NW2_X
conditions_of_race_NW3_L
conditions_of_race_C
conditions_of_race_NW3_X
conditions_of_race_OTHER


Residual by Regressors for handle
Residual
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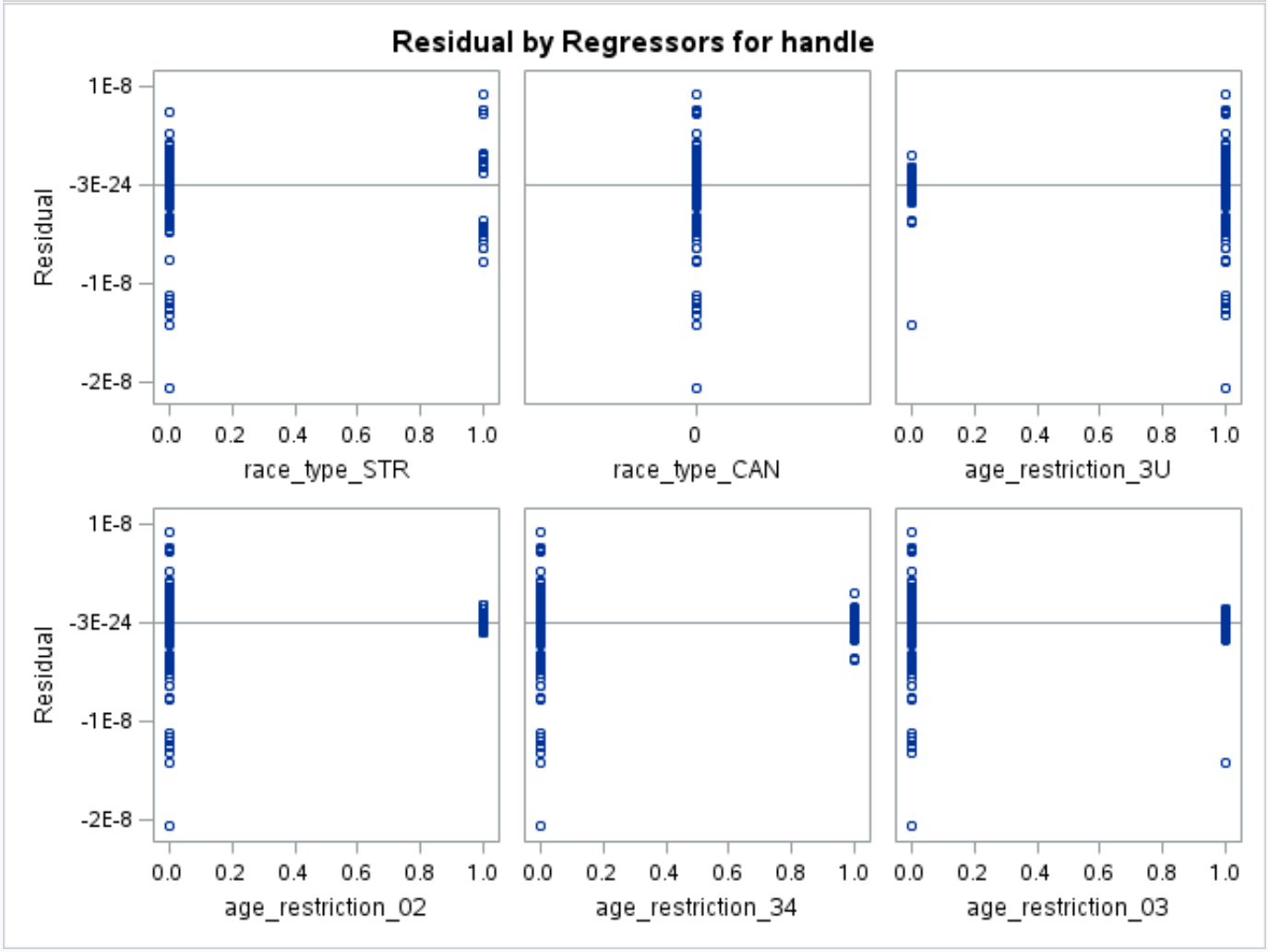
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_type_CLM
race_type_MCL
race_type_MSW
race_type_AOC
race_type_ALW
race_type_STK


Residual by Regressors for handle
Residual
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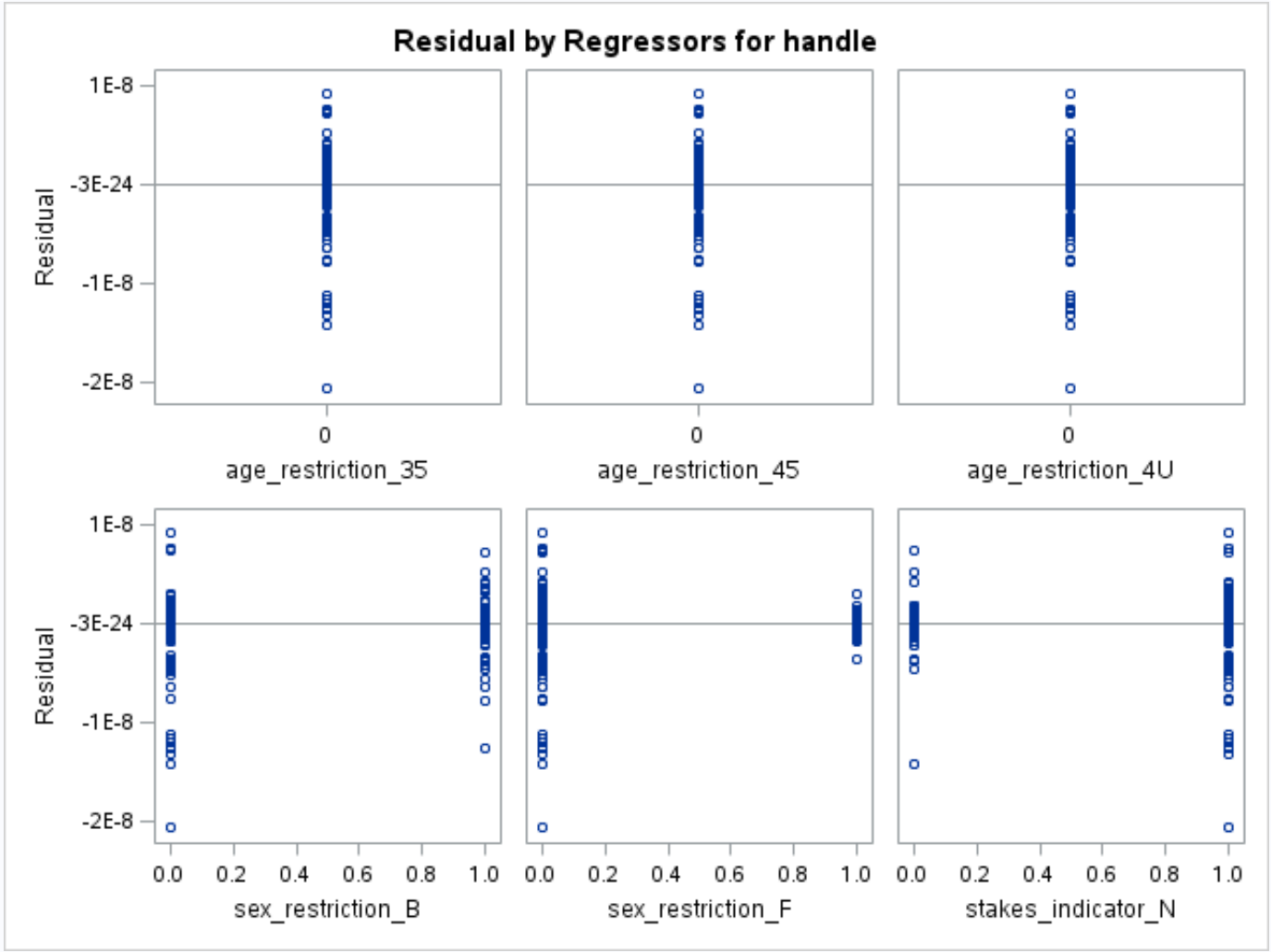
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_type_STR
0
race_type_CAN
age_restriction_3U
age_restriction_02
age_restriction_34
age_restriction_03


Residual by Regressors for handle
Residual
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-3E-24
-1E-8
-2E-8
0
age_restriction_35
age_restriction_45
age_restriction_4U
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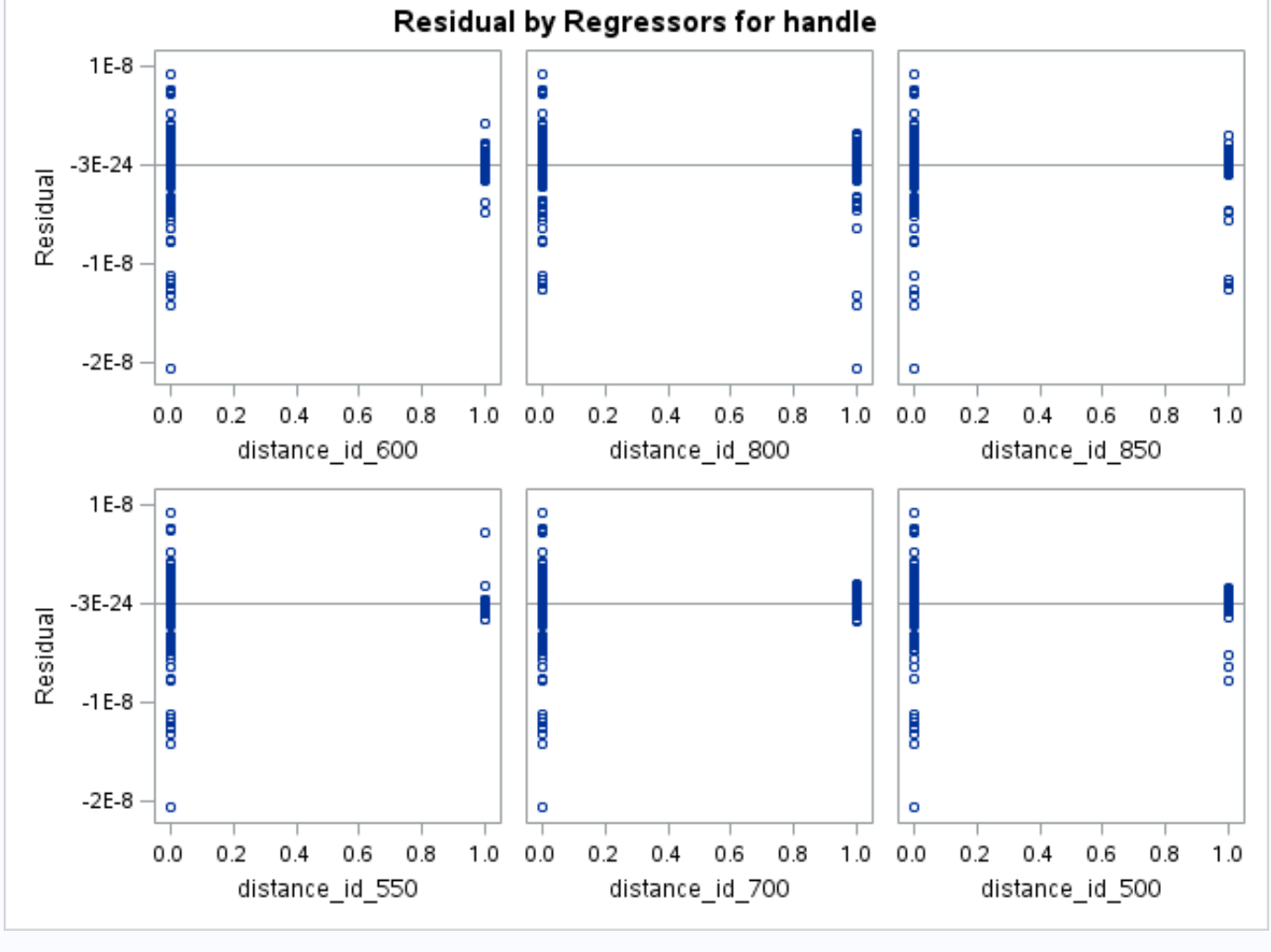
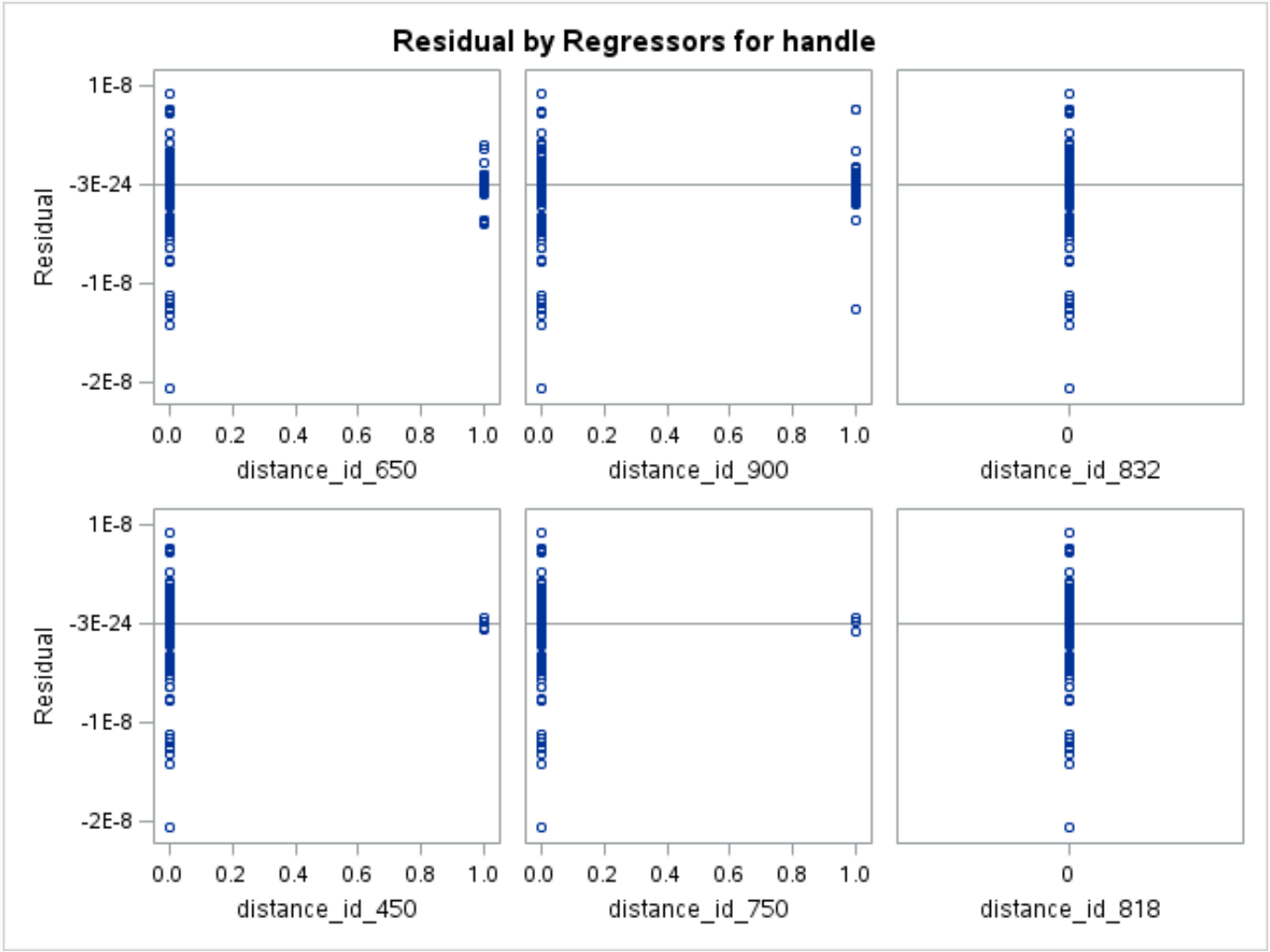
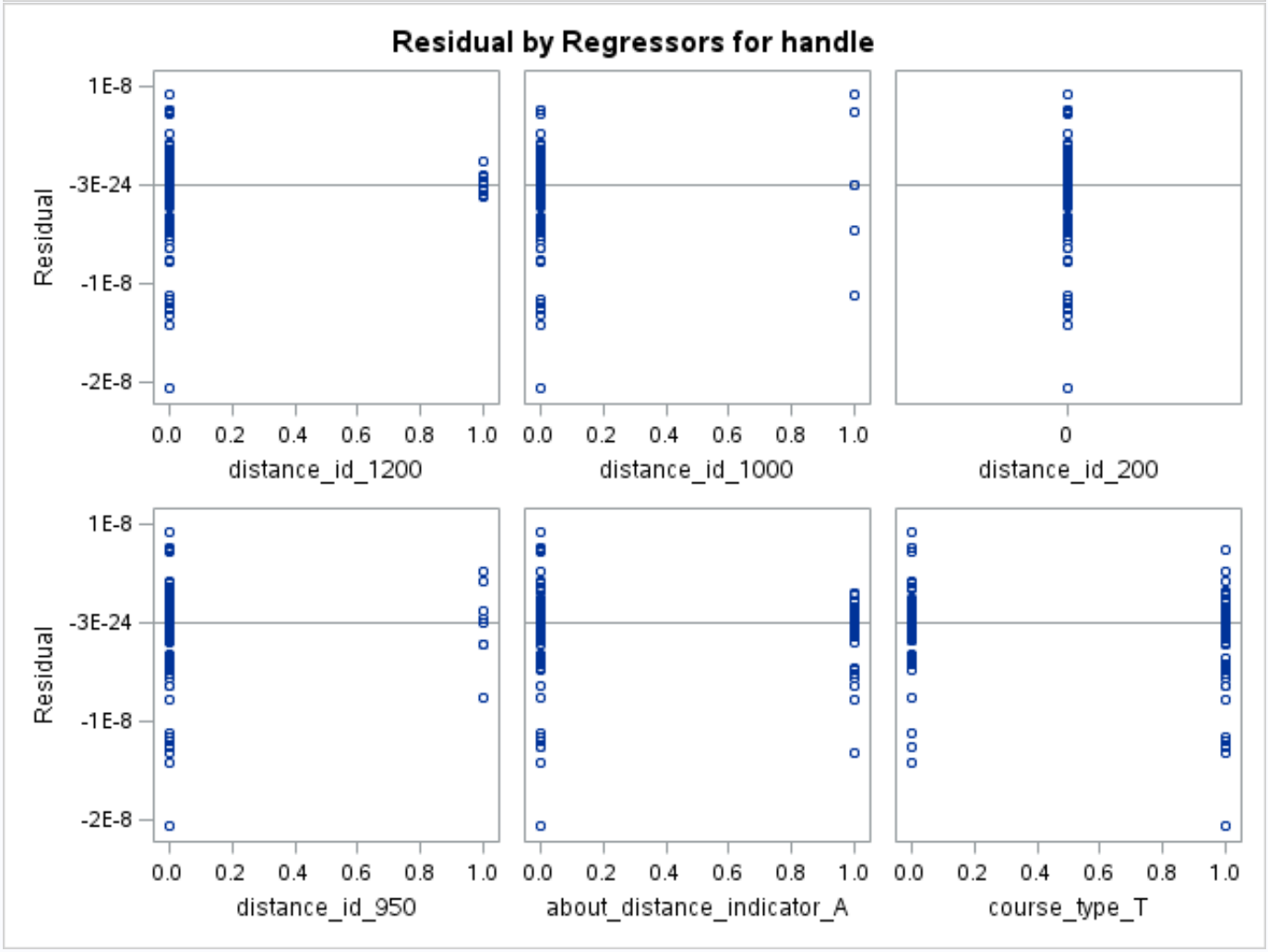
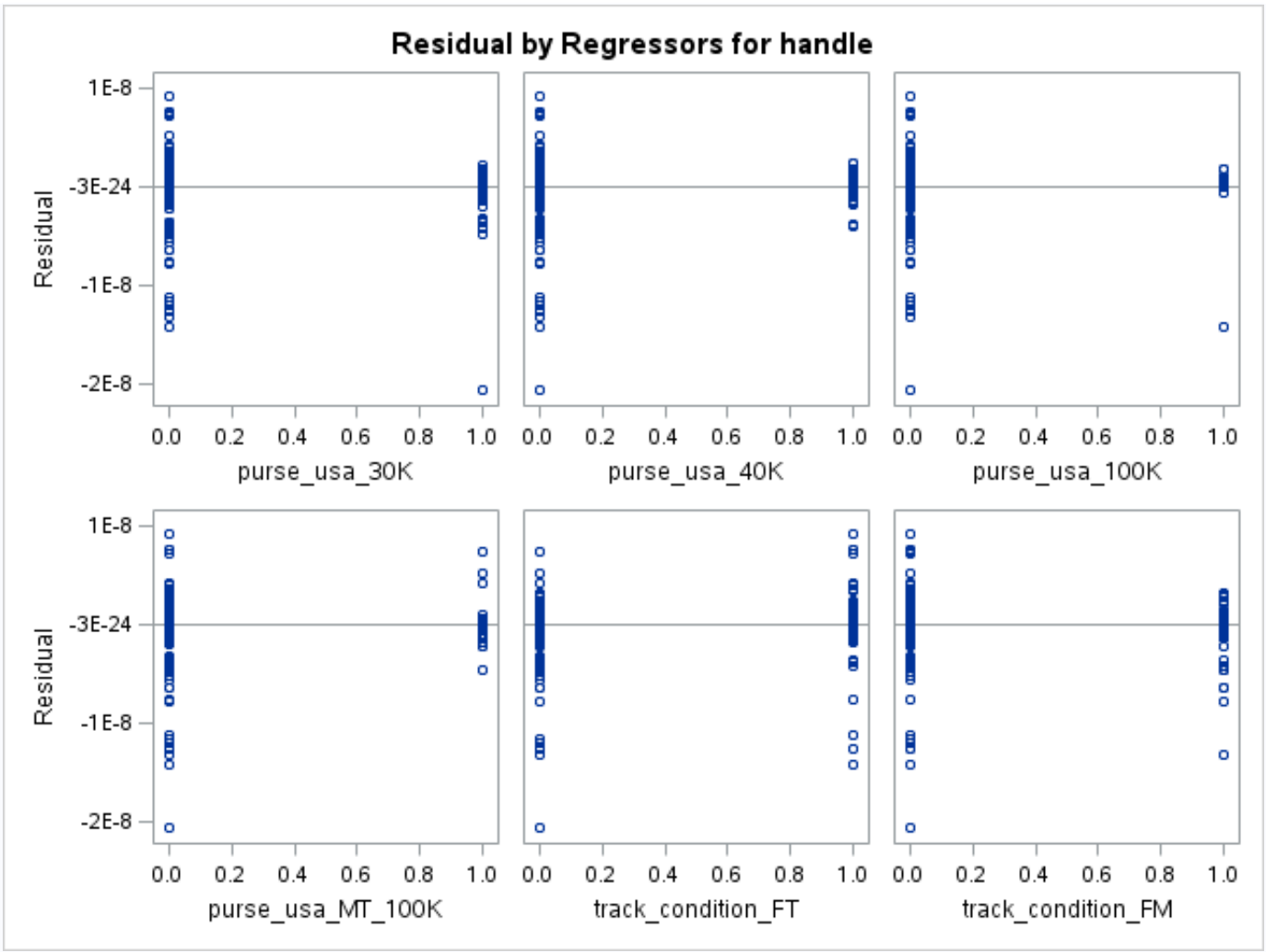
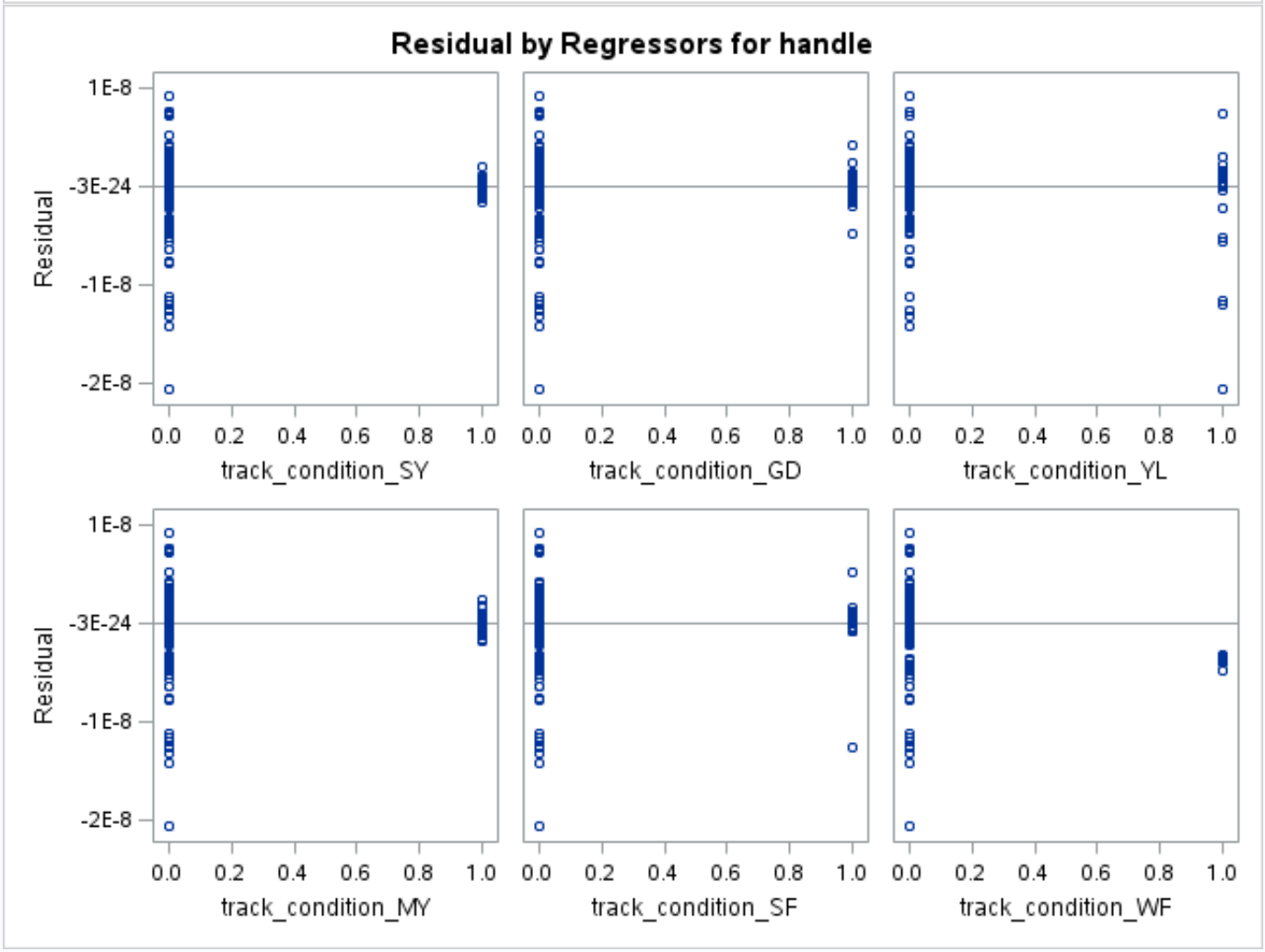
0.2
0.4
0.6
0.8
1.0
sex_restriction_B
sex_restriction_F
stakes_indicator_N


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
distance_id_600
distance_id_800
distance_id_850
distance_id_550
distance_id_700
distance_id_500


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
distance_id_650
distance_id_900
0
distance_id_832
distance_id_450
distance_id_750
distance_id_818


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
distance_id_1200
distance_id_1000
0
distance_id_200
distance_id_950
about_distance_indicator_A
course_type_T


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
purse_usa_30K
purse_usa_40K
purse_usa_100K
purse_usa_MT_100K
track_condition_FT
track_condition_FM


Residual by Regressors for handle
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-3E-24
-1E-8
-2E-8
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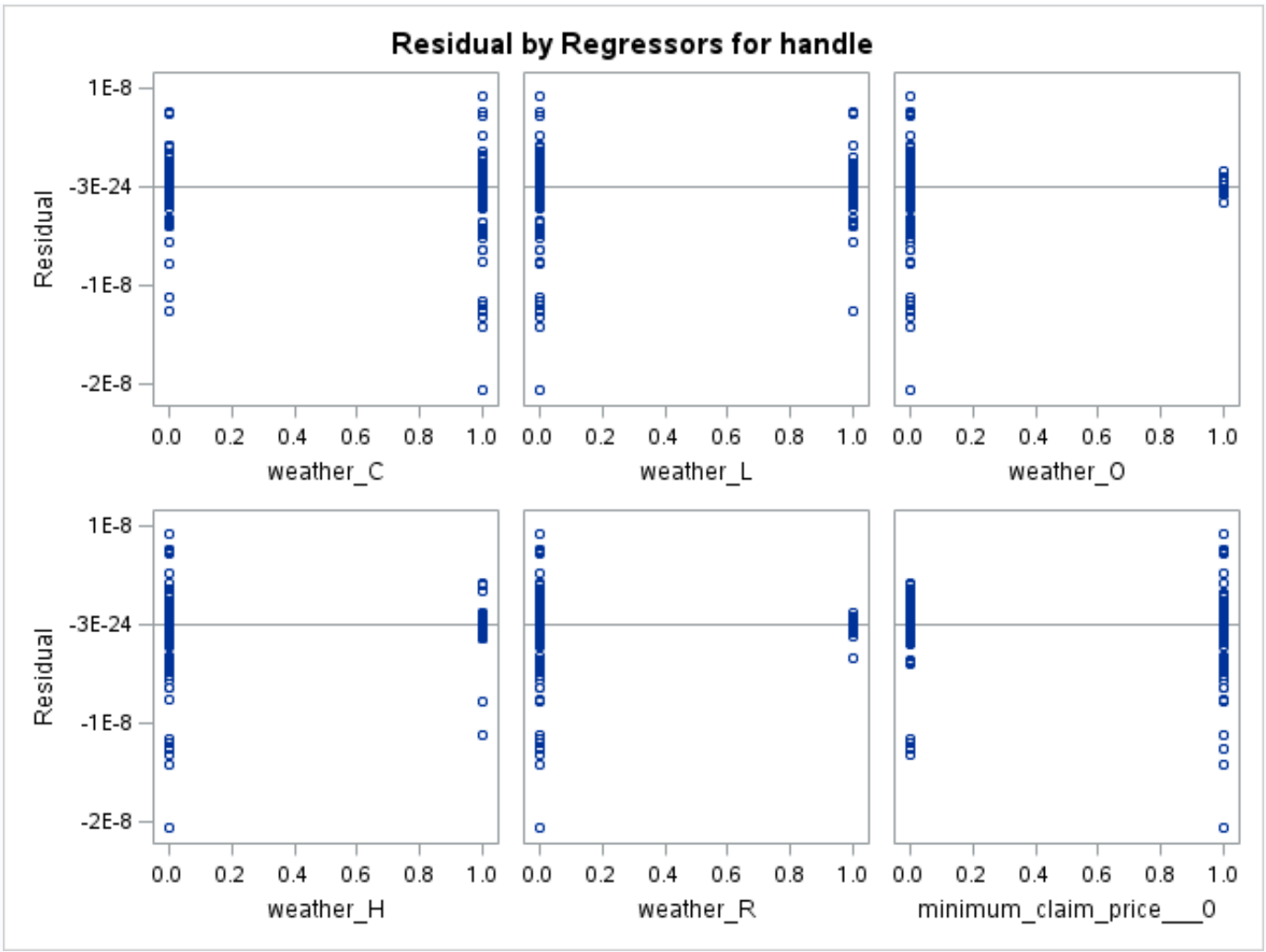
0.2
0.4
0.6
0.8
1.0
track_condition_SY
track_condition_GD
track_condition_YL
track_condition_MY
track_condition_SF
track_condition_WF


Residual by Regressors for handle
Residual
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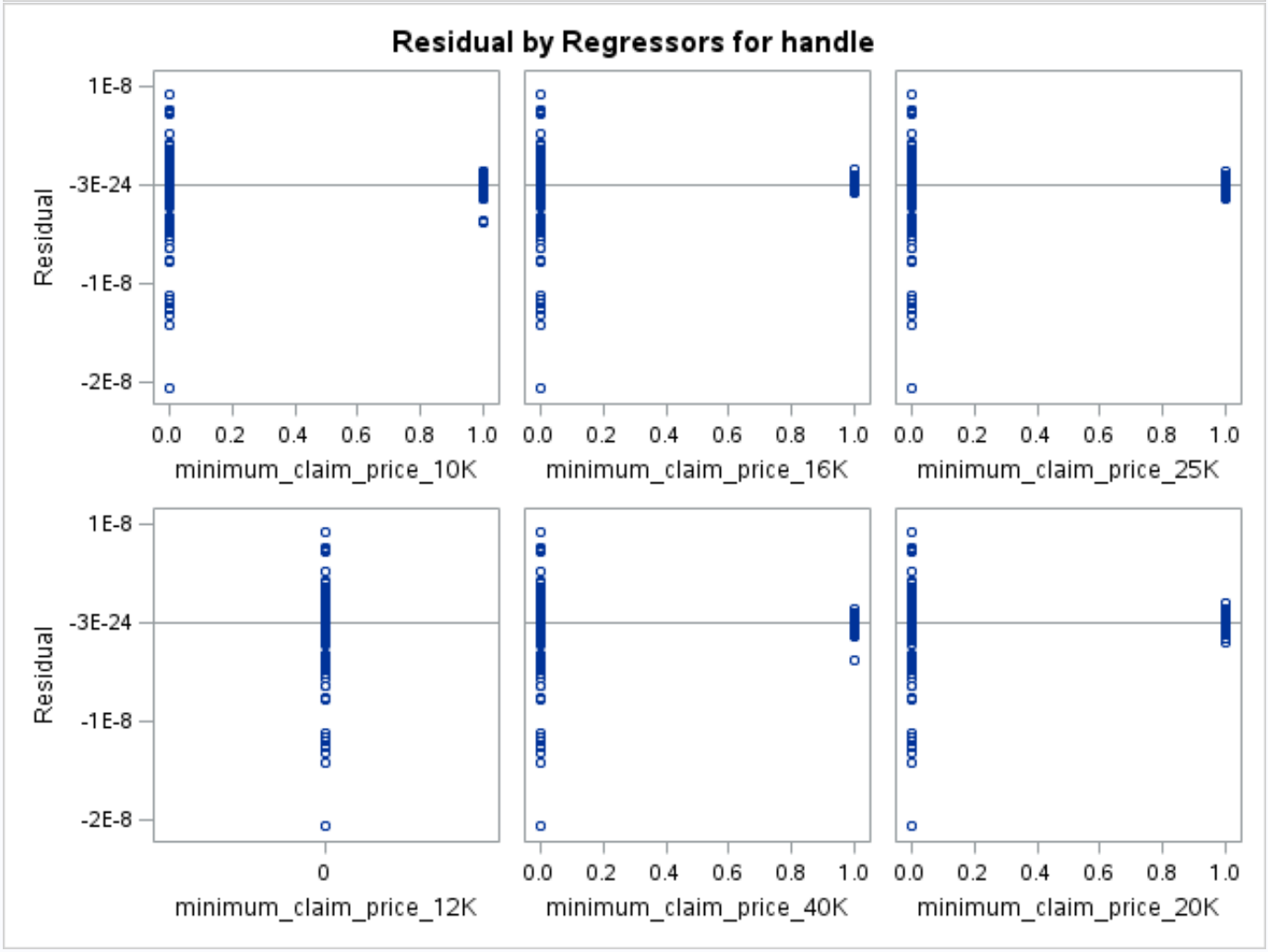
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
weather_C
weather_L
weather_O
weather_H
weather_R
minimum_claim_price___0


Residual by Regressors for handle
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-1E-8
-2E-8
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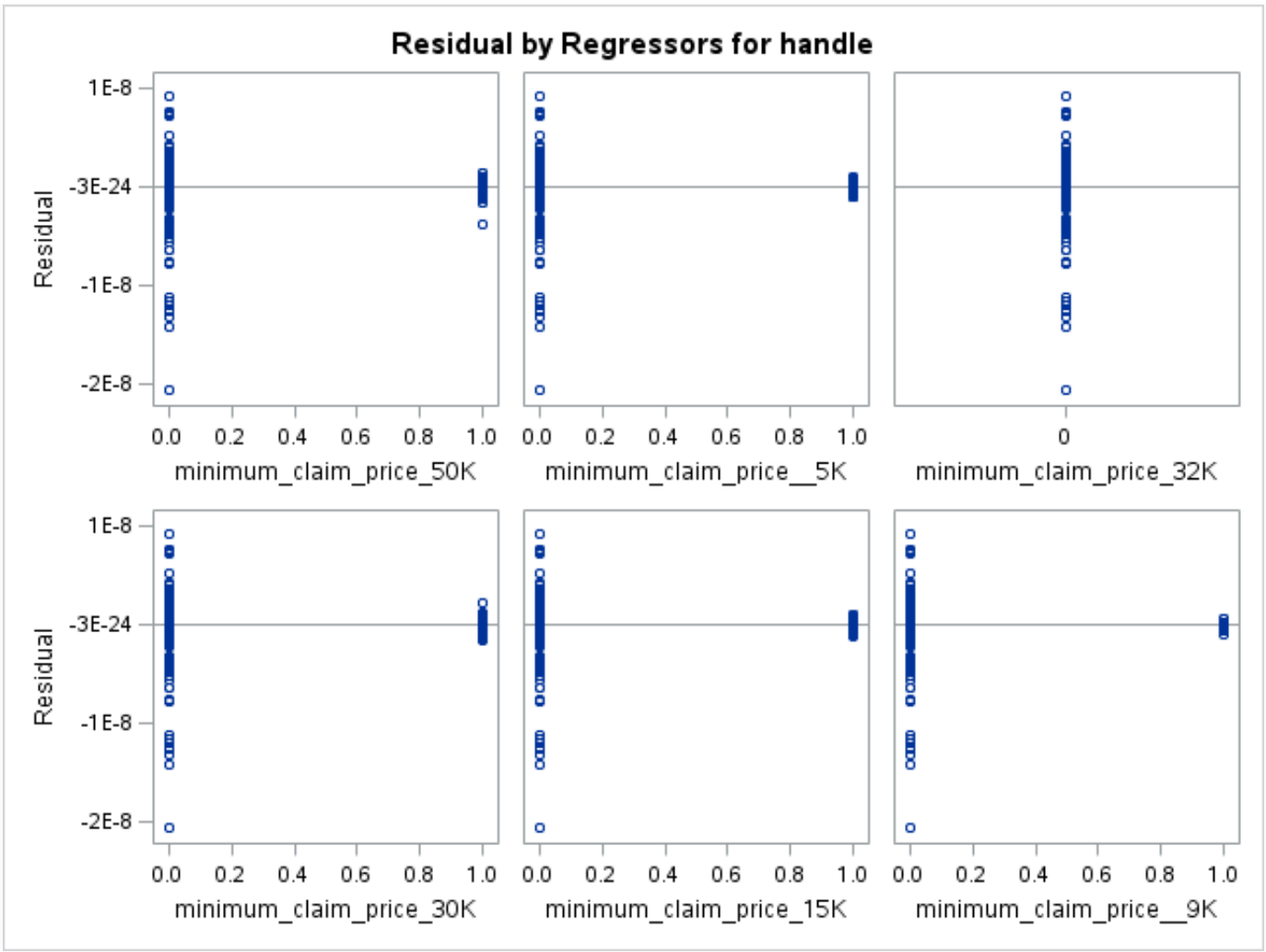
0.2
0.4
0.6
0.8
1.0
0
minimum_claim_price_10K
minimum_claim_price_16K
minimum_claim_price_25K
minimum_claim_price_12K
minimum_claim_price_40K
minimum_claim_price_20K


Residual by Regressors for handle
Residual
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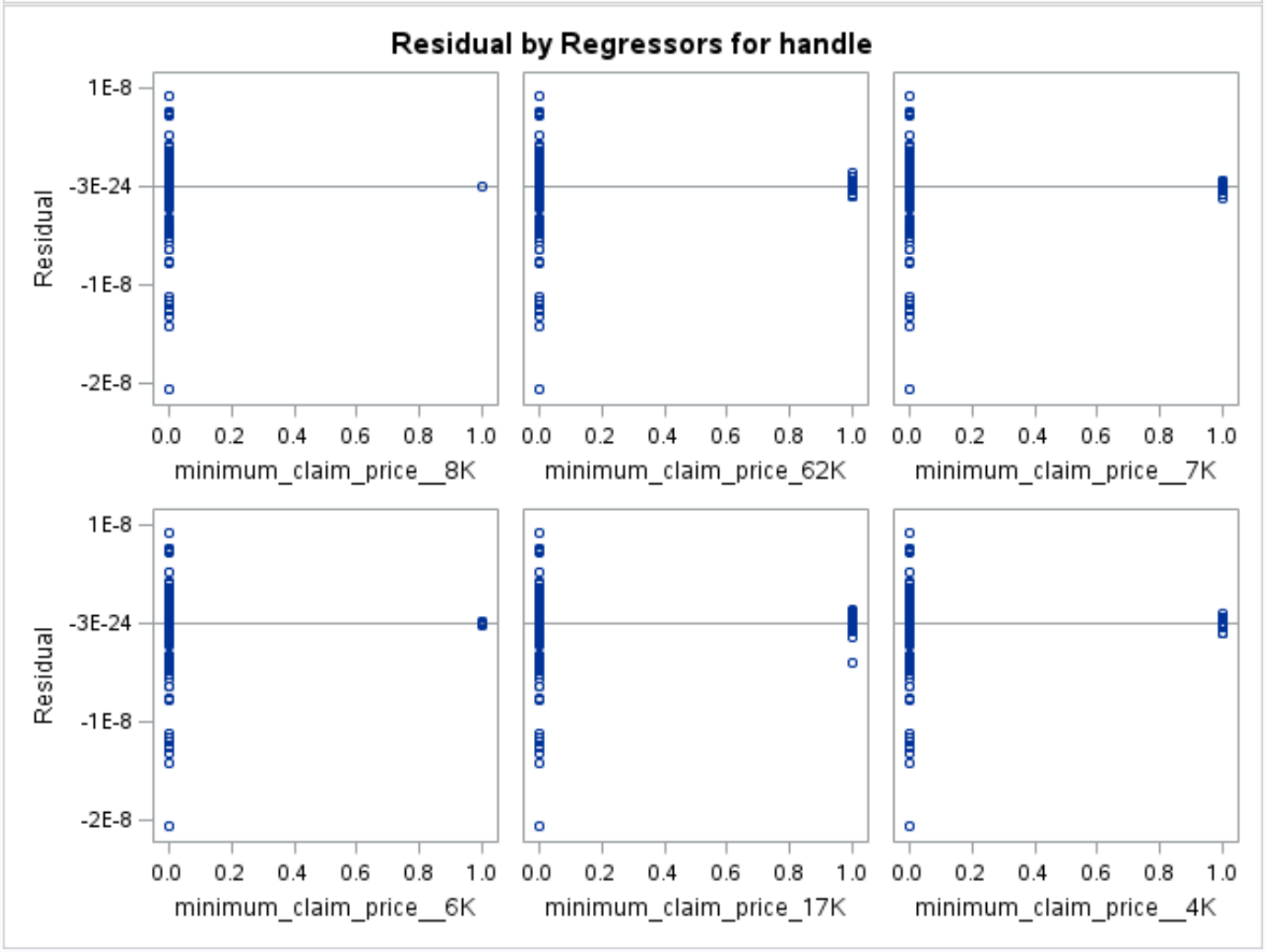
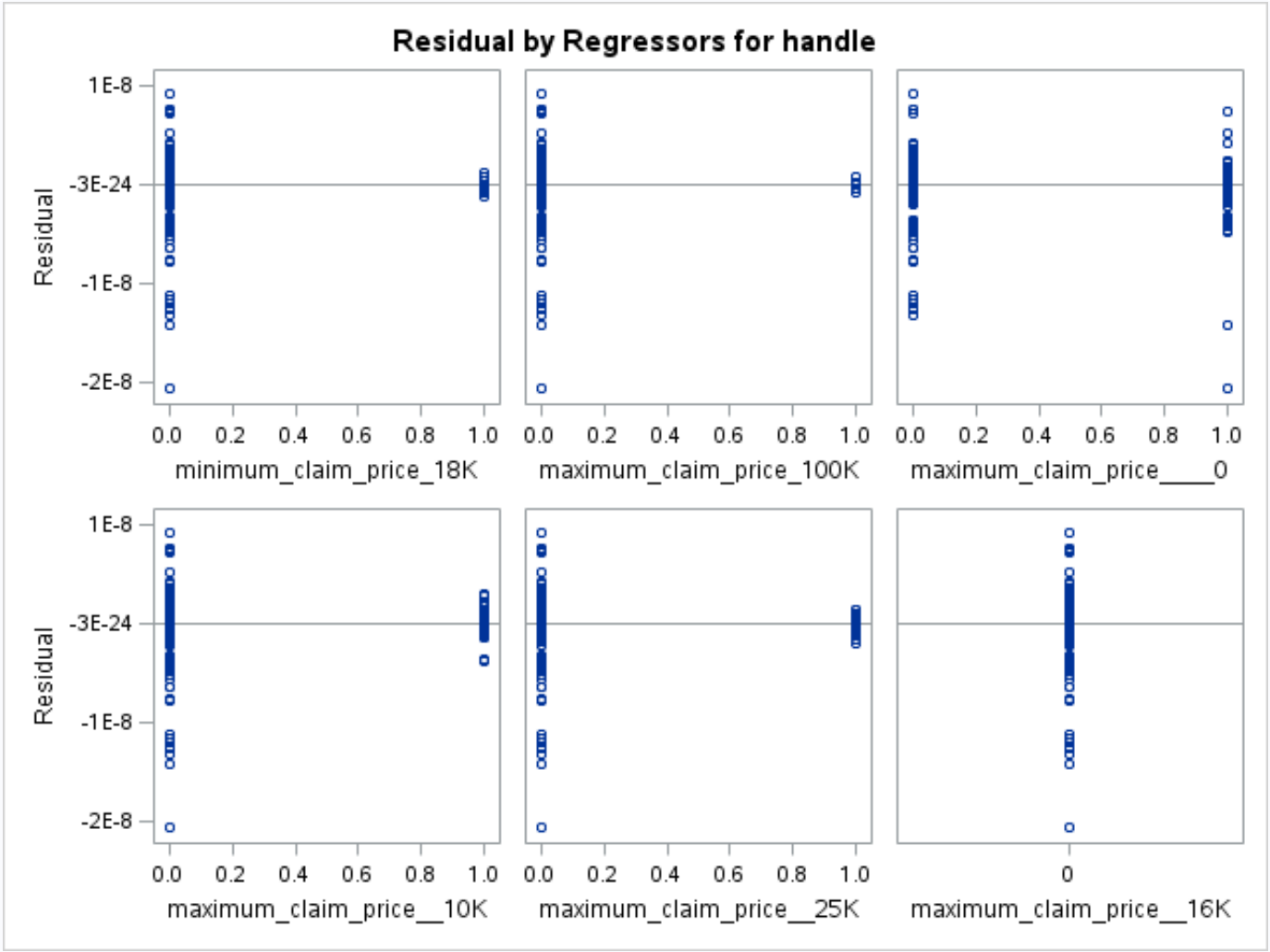
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
minimum_claim_price_50K
minimum_claim_price__5K
0
minimum_claim_price_32K
minimum_claim_price_30K
minimum_claim_price_15K
minimum_claim_price__9K


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
minimum_claim_price__8K
minimum_claim_price_62K
minimum_claim_price__7K
minimum_claim_price__6K
minimum_claim_price_17K
minimum_claim_price__4K


Residual by Regressors for handle
Residual
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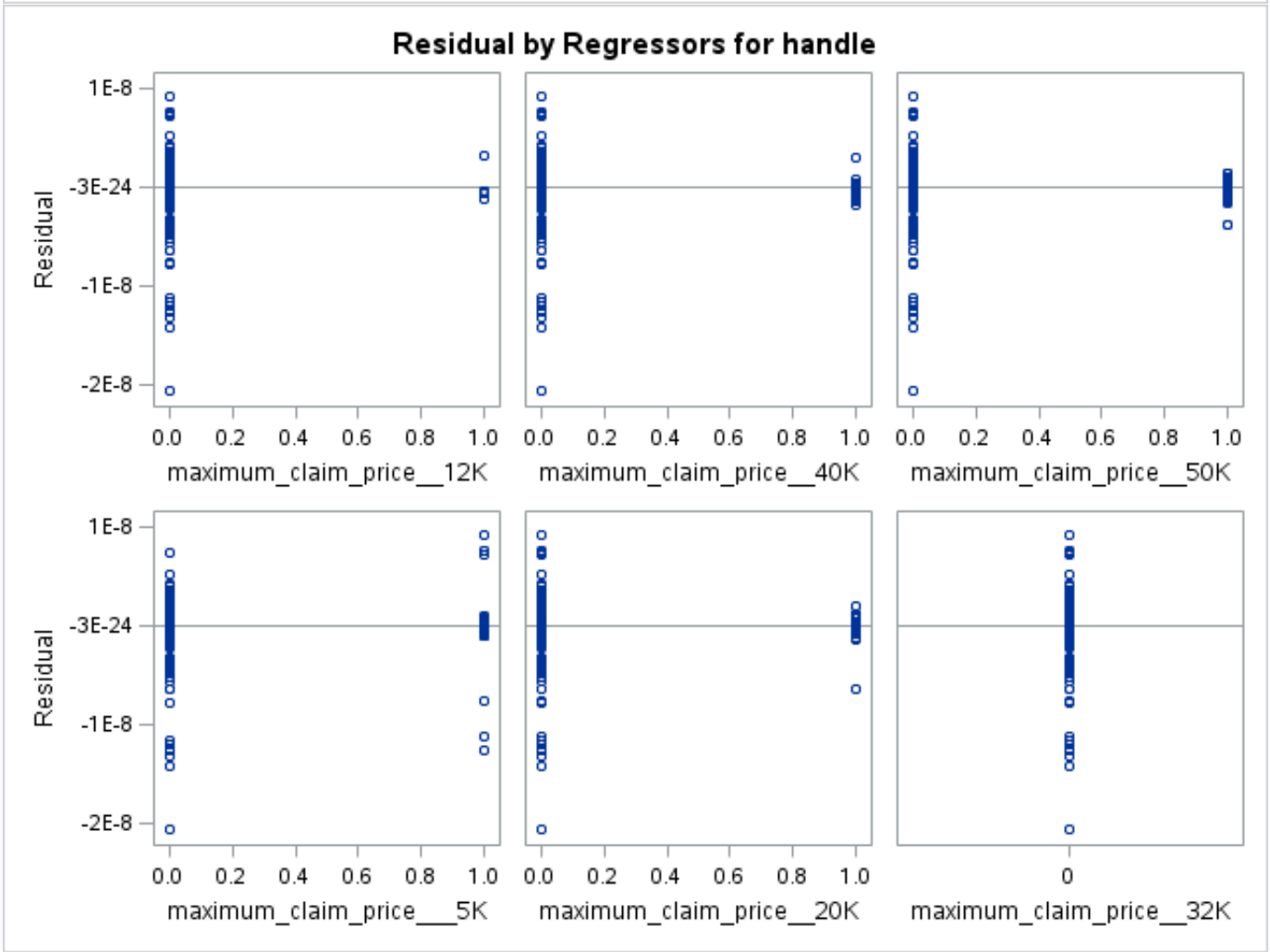
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
minimum_claim_price_18K
maximum_claim_price_100K
maximum_claim_price____0
maximum_claim_price__10K
maximum_claim_price__25K
0
maximum_claim_price__16K


Residual by Regressors for handle
Residual
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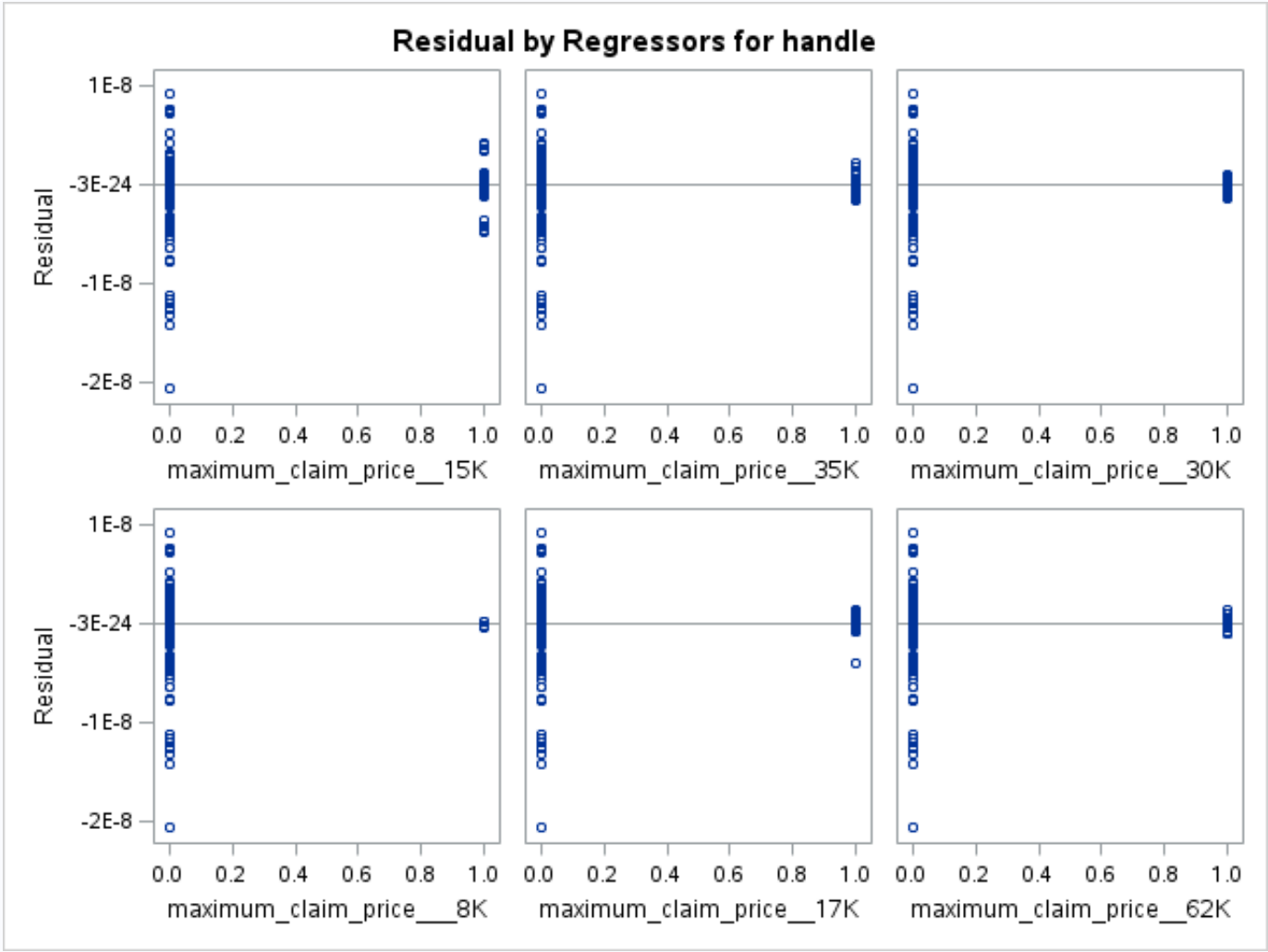
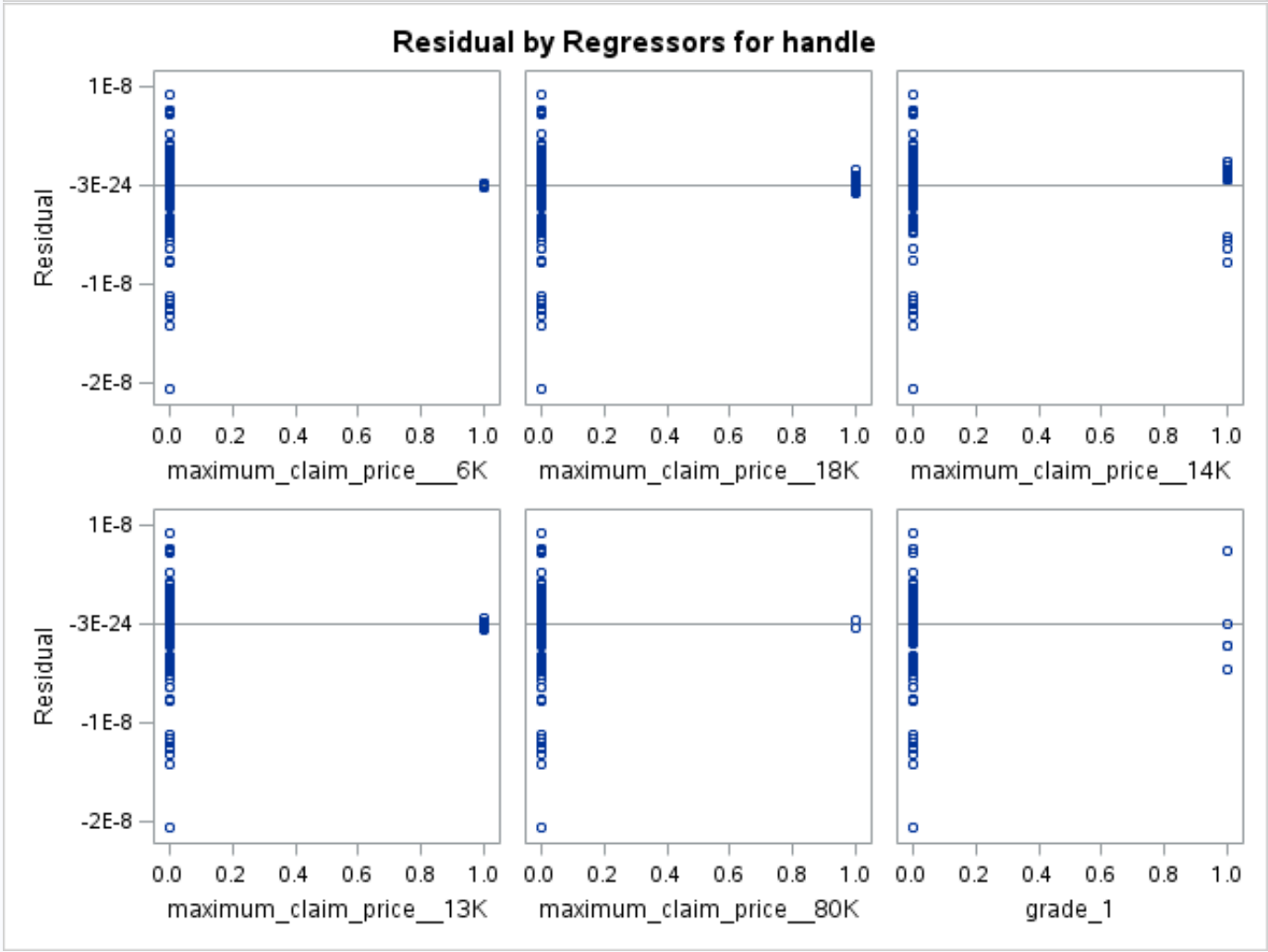
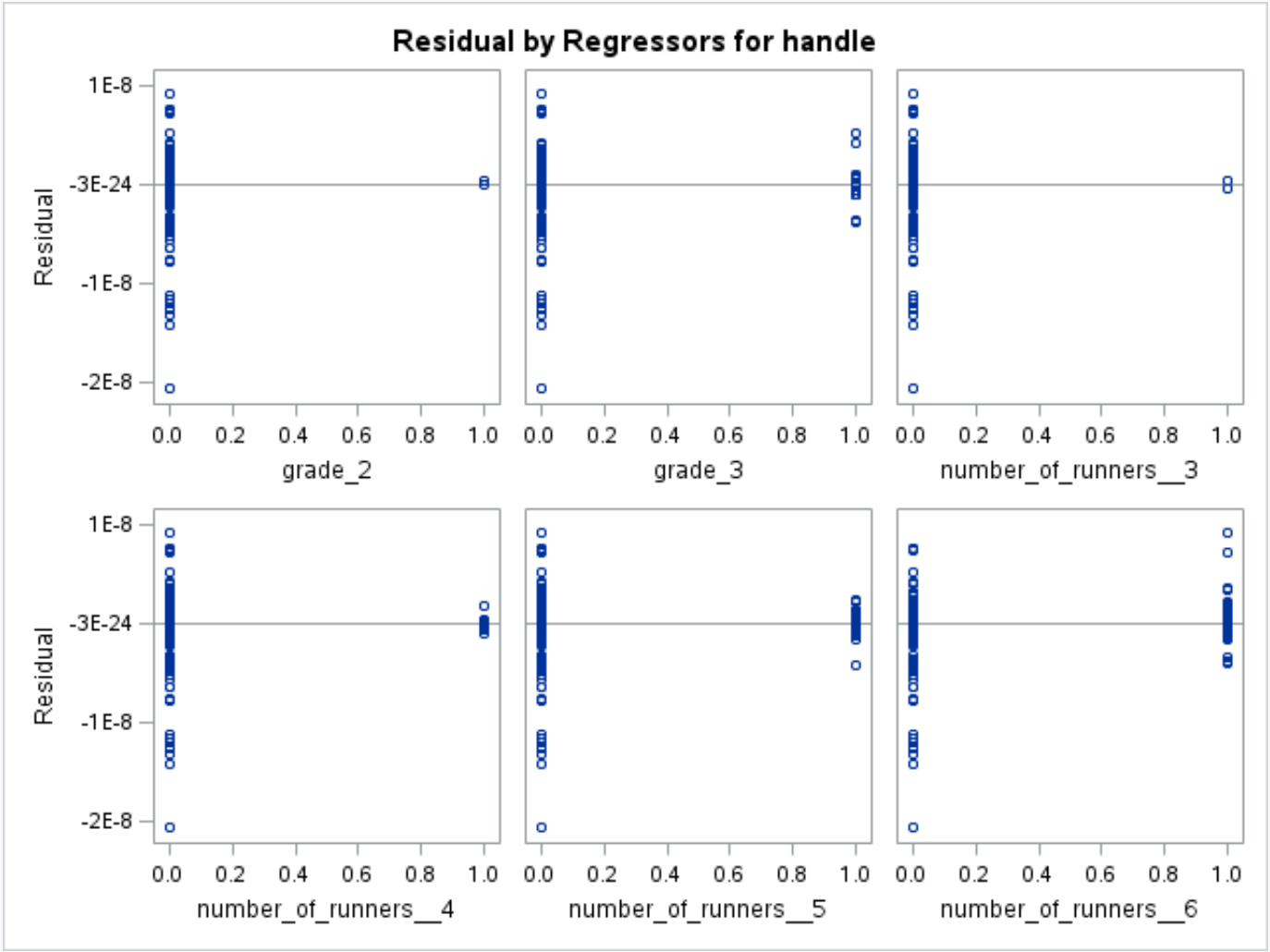
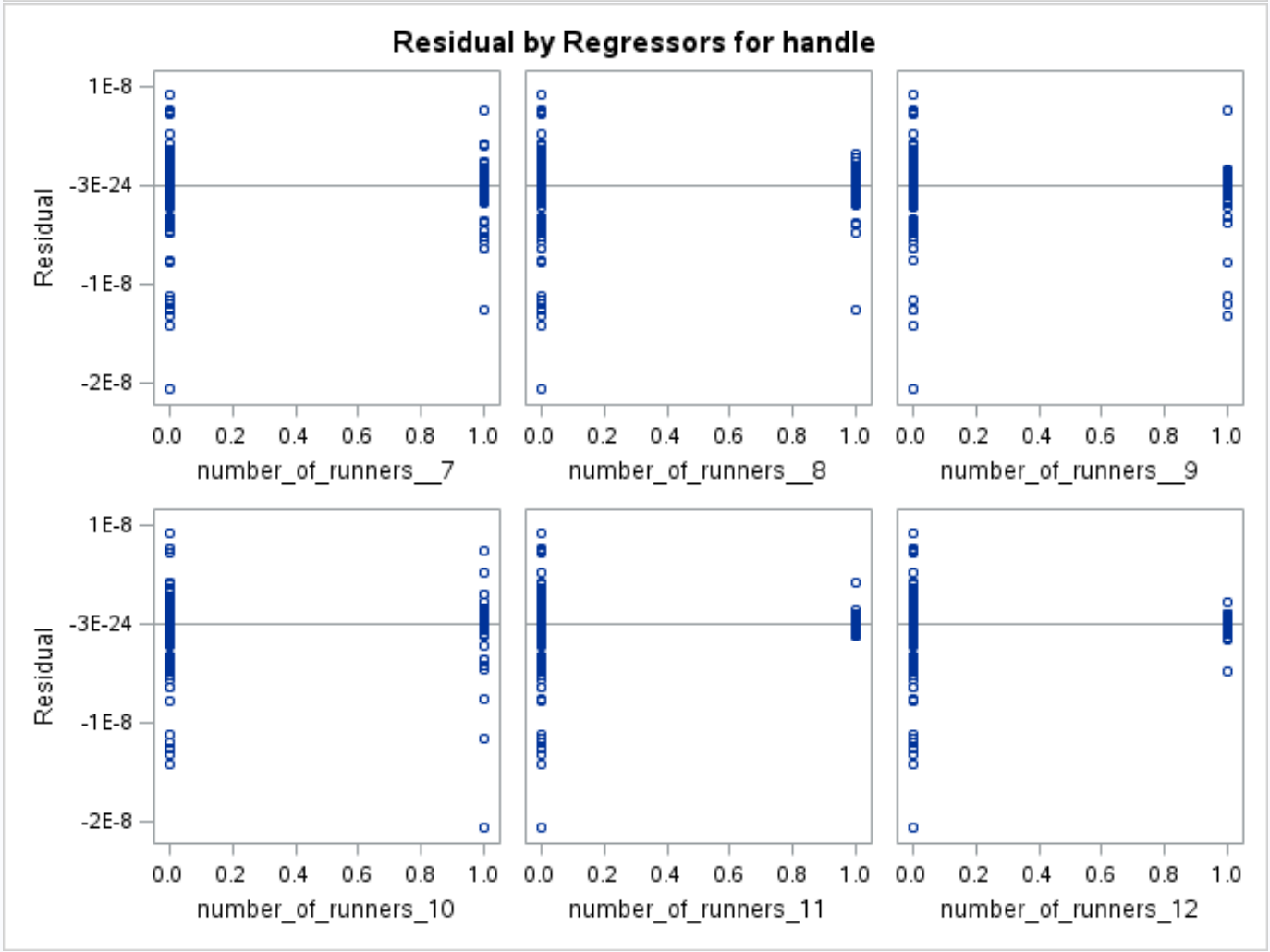
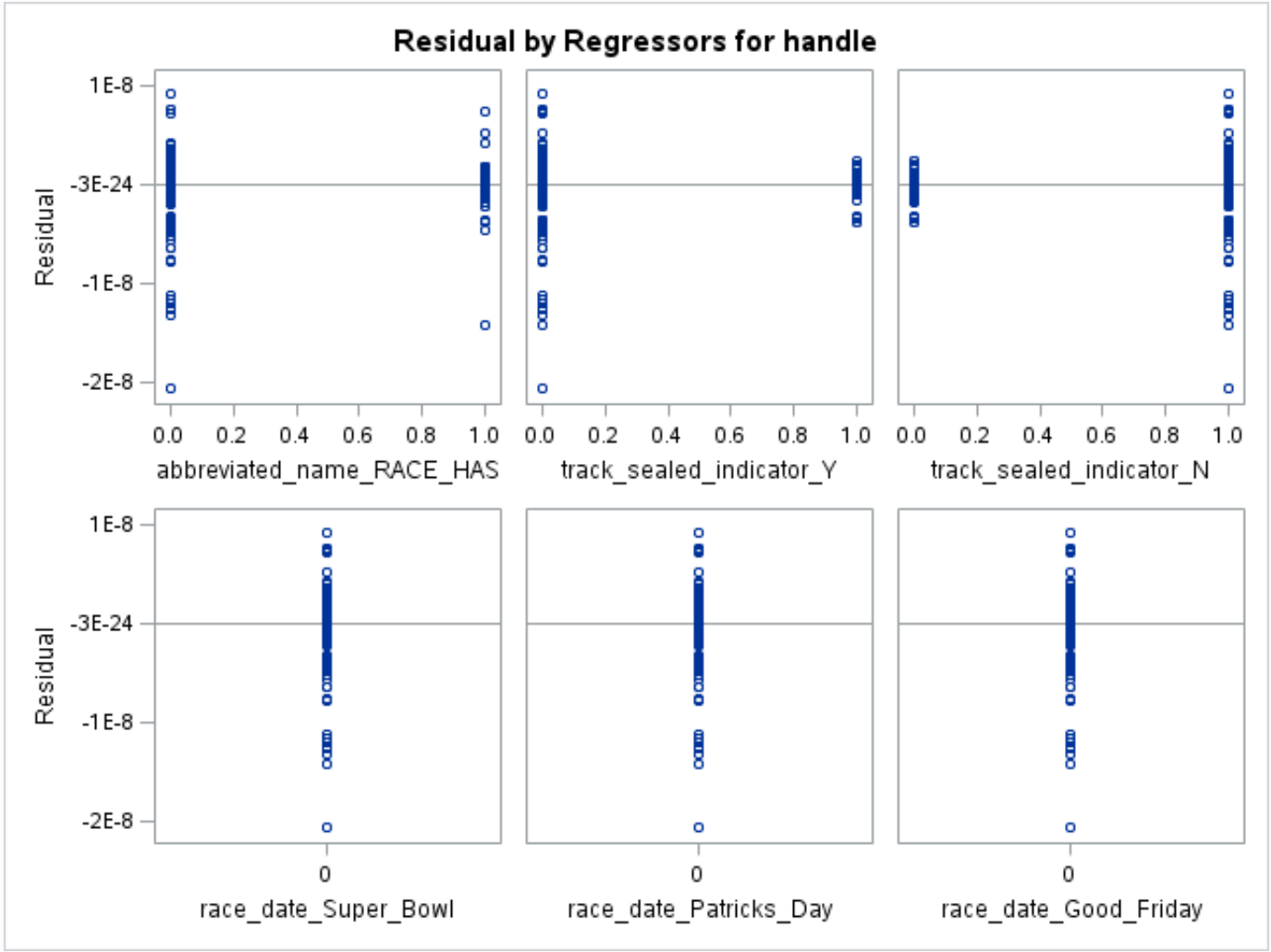
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price__12K
maximum_claim_price__40K
maximum_claim_price__50K
maximum_claim_price___5K
maximum_claim_price__20K
0
maximum_claim_price__32K

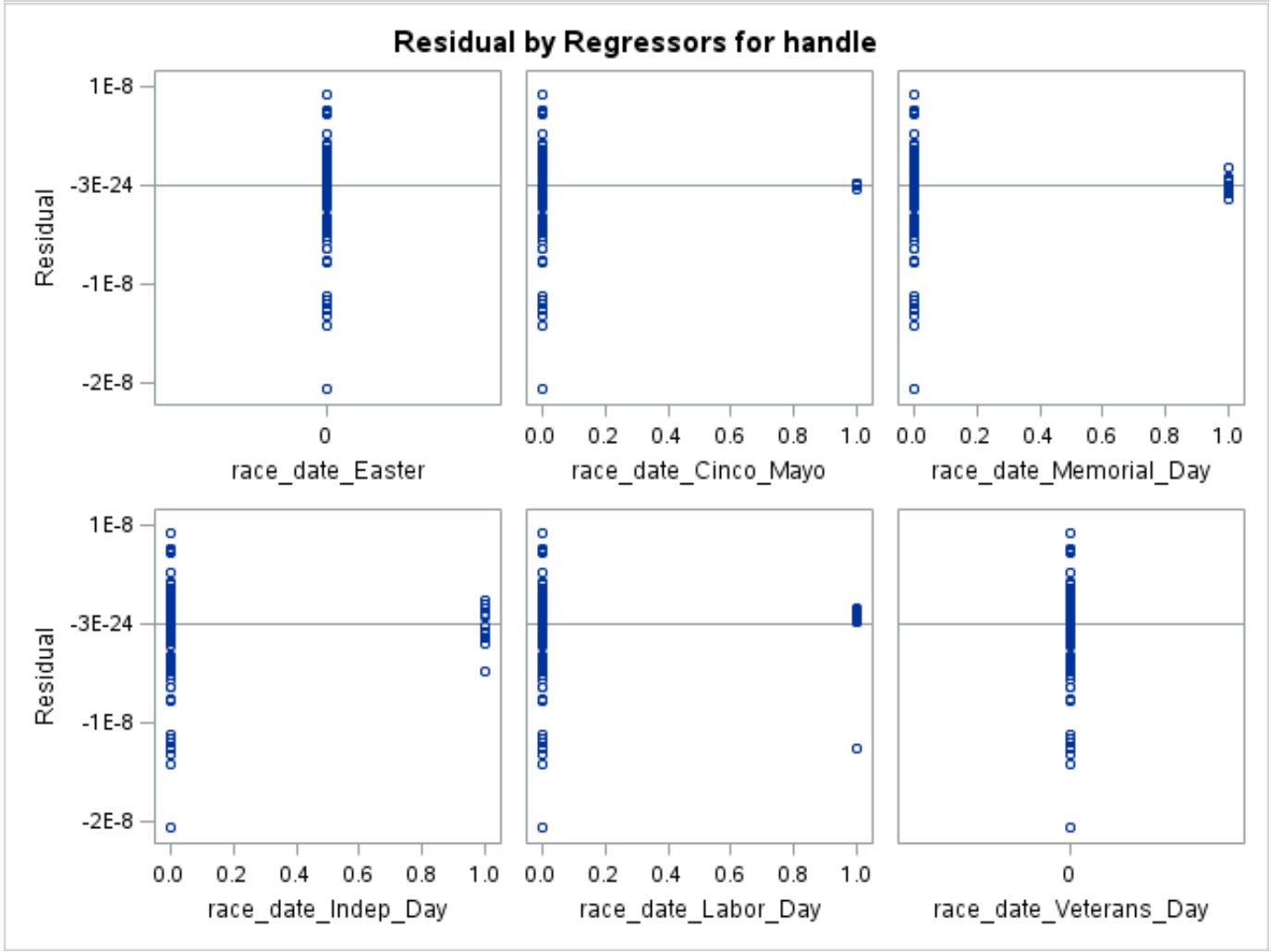

Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price__15K
maximum_claim_price__35K
maximum_claim_price__30K
maximum_claim_price___8K
maximum_claim_price__17K
maximum_claim_price__62K

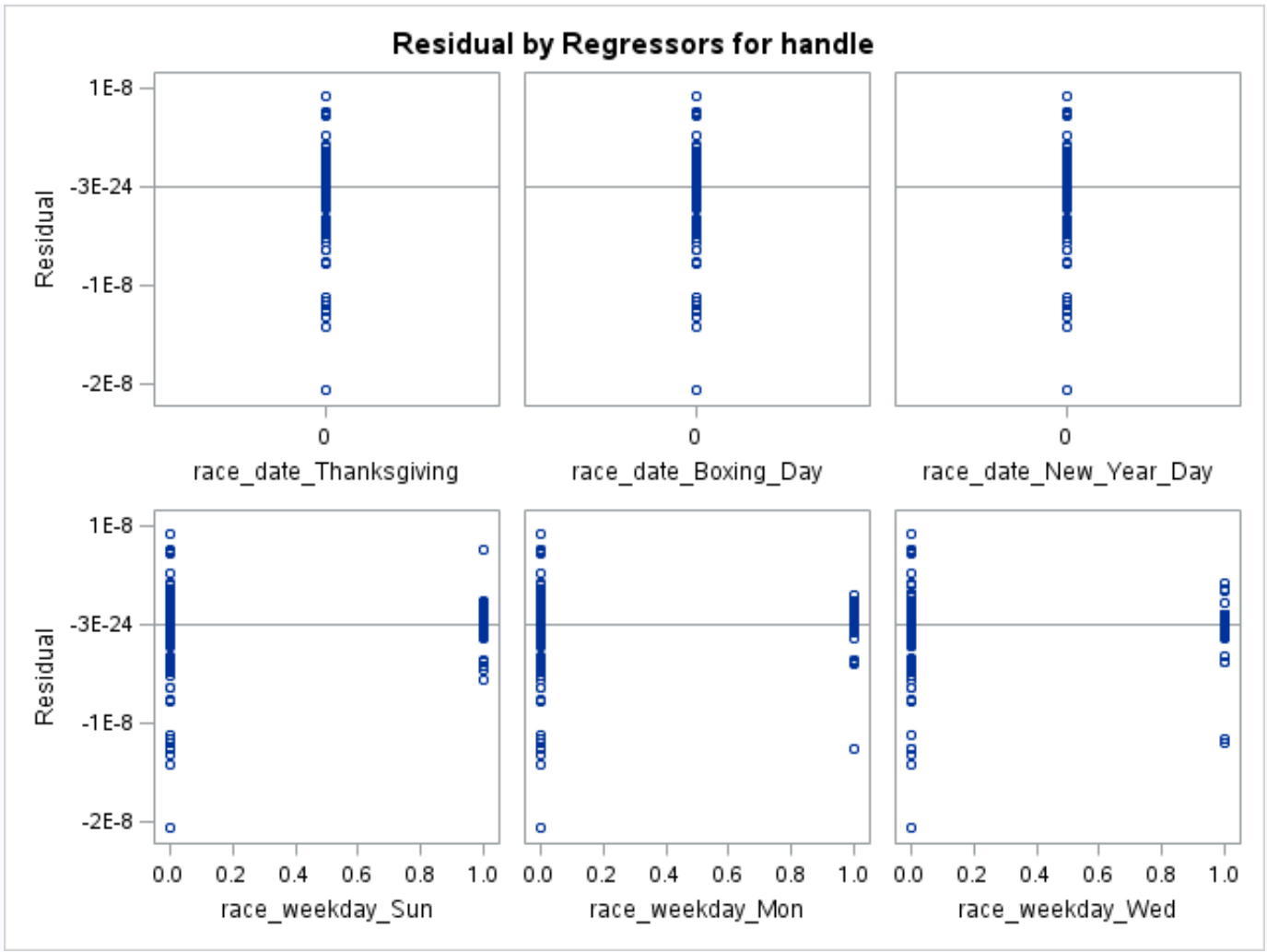

Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price___6K
maximum_claim_price__18K
maximum_claim_price__14K
maximum_claim_price__13K
maximum_claim_price__80K
grade_1

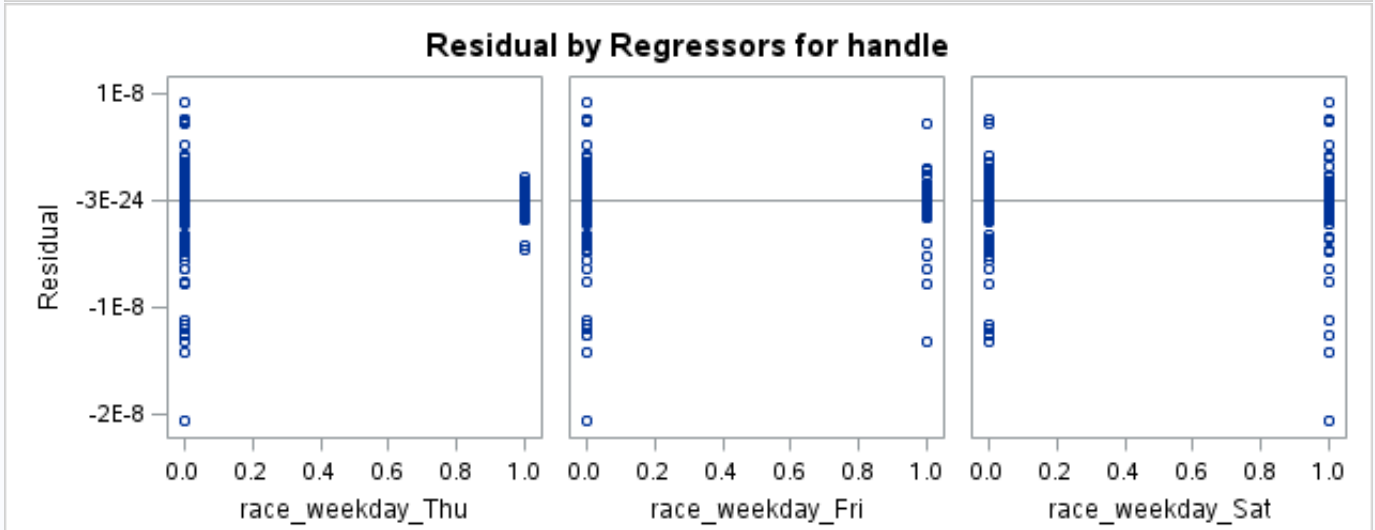

Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
grade_2
grade_3
number_of_runners__3
number_of_runners__4
number_of_runners__5
number_of_runners__6


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
number_of_runners__7
number_of_runners__8
number_of_runners__9
number_of_runners_10
number_of_runners_11
number_of_runners_12


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0.0
0.2
0.4
0.6
0.8
1.0
abbreviated_name_RACE_HAS
track_sealed_indicator_Y
track_sealed_indicator_N
0
race_date_Super_Bowl
race_date_Patricks_Day
race_date_Good_Friday


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0
race_date_Easter
0.0
0.2
0.4
0.6
0.8
1.0
race_date_Cinco_Mayo
race_date_Memorial_Day
race_date_Indep_Day
race_date_Labor_Day
race_date_Veterans_Day


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
0
race_date_Thanksgiving
race_date_Boxing_Day
race_date_New_Year_Day
race_weekday_Sun
race_weekday_Mon
race_weekday_Wed
0.0
0.2
0.4
0.6
0.8
1.0


Residual by Regressors for handle
Residual
1E-8
-3E-24
-1E-8
-2E-8
race_weekday_Thu
race_weekday_Fri
race_weekday_Sat
0.0
0.2
0.4
0.6
0.8
1.0