FG Track Linear Model using Development Dataset

The REG Procedure
Model: FG_TRACK
Dependent Variable: handle

Number of Observations Read	590
Number of Observations Used	590

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	108	2.334856E13	2.161904E11	Infty	<.0001
Error	481	0	0		
Corrected Total	589	2.334856E13			

Root MSE	0	**R-Square**	1.0000
Dependent Mean	415260	**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.

race_number_11 =	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_12 =	0
race_number_13 =	0
conditions_of_race_C =	0
race_type_CAN =	Intercept - race_type_CLM - race_type_MCL - race_type_MSW - race_type_AOC - race_type_ALW - race_type_STK - race_type_STR
age_restriction_34 =	0
age_restriction_4U =	Intercept - age_restriction_3U - age_restriction_02 - age_restriction_03 - age_restriction_35 - age_restriction_45
stakes_indicator_N =	Intercept - race_type_STK
distance_id_700 =	0
distance_id_500 =	0
distance_id_650 =	0
distance_id_832 =	0
distance_id_450 =	0
distance_id_1200 =	0
distance_id_1000 =	0
distance_id_200 =	0
distance_id_950 =	0
course_type_T =	about_distance_indicator_A
track_condition_MY =	0
track_condition_SF =	0
weather_H =	0
minimum_claim_price_16K =	0
minimum_claim_price_32K =	0
minimum_claim_price__6K =	0
minimum_claim_price__4K =	0
maximum_claim_price_100K =	0
maximum_claim_price____0 =	-race_type_STR + minimum_claim_price___0
maximum_claim_price__32K =	0

maximum_claim_price__62K =	minimum_claim_price_62K
maximum_claim_price___6K =	0
maximum_claim_price__18K =	0
maximum_claim_price__14K =	0
grade_1 =	0
number_of_runners__3 =	0
number_of_runners_12 =	race_type_CLM + race_type_MCL + race_type_MSW + race_type_AOC + race_type_ALW + race_type_STK + race_type_STR - number_of_runners__4 - number_of_runners__5 - number_of_runners__6 - number_of_runners__7 - number_of_runners__8 - number_of_runners__9 - number_of_runners_10 - number_of_runners_11
abbreviated_name_RACE_HAS =	race_type_STK
race_date_Cinco_Mayo =	0
race_date_Memorial_Day =	0
race_date_Indep_Day =	0
race_date_Labor_Day =	0
race_date_Veterans_Day =	0
race_date_Boxing_Day =	0
race_weekday_Wed =	0

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	B	2.053803E-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
race_number_1		B	1.981306E-9	0	Infty	<.0001
race_number_2		B	2.786468E-9	0	Infty	<.0001
race_number_3		B	2.308401E-9	0	Infty	<.0001
race_number_4		B	2.471643E-9	0	Infty	<.0001
race_number_5		B	2.561097E-9	0	Infty	<.0001
race_number_6		B	2.793209E-9	0	Infty	<.0001
race_number_7		B	2.355889E-9	0	Infty	<.0001
race_number_8		B	2.560635E-9	0	Infty	<.0001
race_number_9		B	2.747811E-9	0	Infty	<.0001
race_number_10		B	3.285577E-9	0	Infty	<.0001
race_number_11		0	0	.	.	.
race_number_12		0	0	.	.	.
race_number_13		0	0	.	.	.
conditions_of_race_NW2_L		1	3.74197E-10	0	Infty	<.0001
conditions_of_race_NW1_X		1	8.7145E-10	0	Infty	<.0001
conditions_of_race_NW2_X		1	6.64893E-10	0	Infty	<.0001
conditions_of_race_NW3_L		1	2.23451E-10	0	Infty	<.0001
conditions_of_race_C		0	0	.	.	.
conditions_of_race_NW3_X		1	2.52509E-10	0	Infty	<.0001
conditions_of_race_OTHER		1	3.84213E-10	0	Infty	<.0001
race_type_CLM		B	-1.32048E-8	0	-Infty	<.0001
race_type_MCL		B	-1.25593E-8	0	-Infty	<.0001
race_type_MSW		B	-7.12577E-9	0	-Infty	<.0001
race_type_AOC		B	-1.43754E-8	0	-Infty	<.0001
race_type_ALW		B	-8.54209E-9	0	-Infty	<.0001
race_type_STK		B	-8.60488E-9	0	-Infty	<.0001
race_type_STR		B	-7.41856E-9	0	-Infty	<.0001
race_type_CAN		0	0	.	.	.

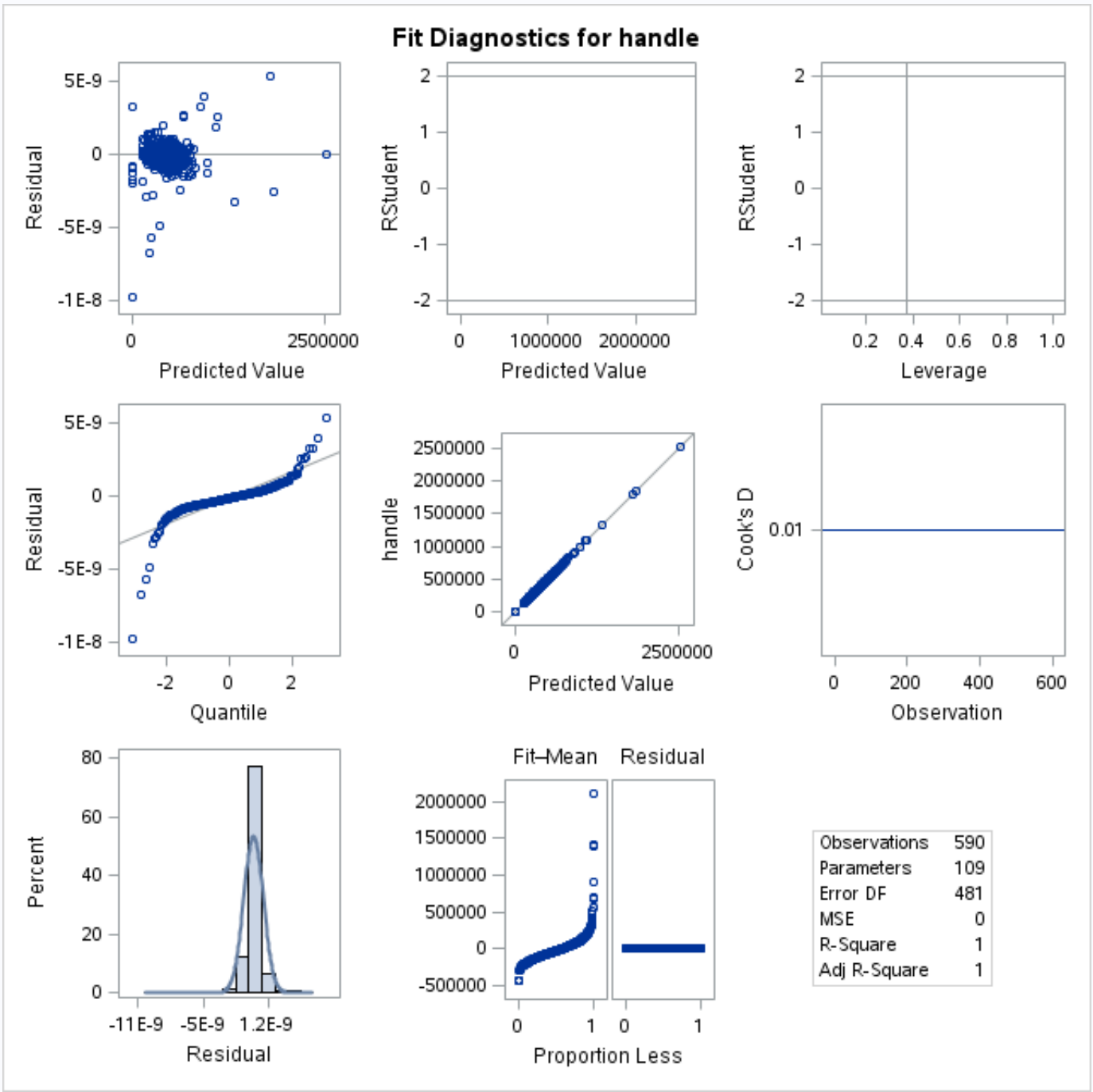
age_restriction_3U		B	-3.0879E-11	0	-Infty	<.0001
age_restriction_02		B	-2.5018E-10	0	-Infty	<.0001
age_restriction_34		0	0	.	.	.
age_restriction_03		B	-4.035E-11	0	-Infty	<.0001
age_restriction_35		B	-1.293E-10	0	-Infty	<.0001
age_restriction_45		B	-6.6313E-11	0	-Infty	<.0001
age_restriction_4U		0	0	.	.	.
sex_restriction_B		1	-1.6176E-10	0	-Infty	<.0001
sex_restriction_F		1	-4.7401E-11	0	-Infty	<.0001
stakes_indicator_N		0	0	.	.	.
distance_id_600		1	-1.88002E-8	0	-Infty	<.0001
distance_id_800		1	-1.87068E-8	0	-Infty	<.0001
distance_id_850		1	-1.88719E-8	0	-Infty	<.0001
distance_id_550		1	-1.87523E-8	0	-Infty	<.0001
distance_id_700		0	0	.	.	.
distance_id_500		0	0	.	.	.
distance_id_650		0	0	.	.	.
distance_id_900		1	-1.83191E-8	0	-Infty	<.0001
distance_id_832		0	0	.	.	.
distance_id_450		0	0	.	.	.
distance_id_750		1	-1.90303E-8	0	-Infty	<.0001
distance_id_818		1	-1.85877E-8	0	-Infty	<.0001
distance_id_1200		0	0	.	.	.
distance_id_1000		0	0	.	.	.
distance_id_200		0	0	.	.	.
distance_id_950		0	0	.	.	.
about_distance_indicator_A		B	2.91616E-11	0	Infty	<.0001
course_type_T		0	0	.	.	.
purse_usa_30K		1	-2.2455E-10	0	-Infty	<.0001
purse_usa_40K		1	4.19151E-10	0	Infty	<.0001
purse_usa_100K		1	7.82938E-10	0	Infty	<.0001
purse_usa_MT_100K		1	5.550918E-9	0	Infty	<.0001
track_condition_FT		1	1.083145E-8	0	Infty	<.0001
track_condition_FM		1	1.077026E-8	0	Infty	<.0001
track_condition_SY		1	1.086543E-8	0	Infty	<.0001
track_condition_GD		1	1.161657E-8	0	Infty	<.0001
track_condition_YL		1	1.045241E-8	0	Infty	<.0001
track_condition_MY		0	0	.	.	.
track_condition_SF		0	0	.	.	.
track_condition_WF		1	1.064312E-8	0	Infty	<.0001
weather_C		1	5.98963E-10	0	Infty	<.0001
weather_L		1	5.79391E-10	0	Infty	<.0001
weather_O		1	2.51261E-10	0	Infty	<.0001
weather_H		0	0	.	.	.
weather_R		1	-9.2418E-10	0	-Infty	<.0001
minimum_claim_price___0		B	-9.3318E-9	0	-Infty	<.0001
minimum_claim_price_10K		1	-1.33208E-9	0	-Infty	<.0001
minimum_claim_price_16K		0	0	.	.	.
minimum_claim_price_25K		1	-2.1267E-9	0	-Infty	<.0001
minimum_claim_price_12K		1	-9.6293E-10	0	-Infty	<.0001
minimum_claim_price_40K		1	5.17086E-10	0	Infty	<.0001

minimum_claim_price_20K		1	-2.43479E-9	0	-Infty	<.0001
minimum_claim_price_50K		1	1.229333E-9	0	Infty	<.0001
minimum_claim_price__5K		1	-3.33939E-9	0	-Infty	<.0001
minimum_claim_price_32K		0	0	.	.	.
minimum_claim_price_30K		1	-1.8072E-10	0	-Infty	<.0001
minimum_claim_price_15K		1	-9.096E-10	0	-Infty	<.0001
minimum_claim_price__9K		1	-3.69784E-9	0	-Infty	<.0001
minimum_claim_price__8K		1	-4.16399E-9	0	-Infty	<.0001
minimum_claim_price_62K		B	-3.57921E-9	0	-Infty	<.0001
minimum_claim_price__7K		1	-3.30056E-9	0	-Infty	<.0001
minimum_claim_price__6K		0	0	.	.	.
minimum_claim_price_17K		1	-3.725E-9	0	-Infty	<.0001
minimum_claim_price__4K		0	0	.	.	.
minimum_claim_price_18K		1	-4.08617E-9	0	-Infty	<.0001
maximum_claim_price_100K		0	0	.	.	.
maximum_claim_price____0		0	0	.	.	.
maximum_claim_price__10K		1	2.2872E-10	0	Infty	<.0001
maximum_claim_price__25K		1	-1.16971E-9	0	-Infty	<.0001
maximum_claim_price__16K		1	-3.226E-9	0	-Infty	<.0001
maximum_claim_price__12K		1	-2.83599E-9	0	-Infty	<.0001
maximum_claim_price__40K		1	-4.34022E-9	0	-Infty	<.0001
maximum_claim_price__50K		1	-4.65726E-9	0	-Infty	<.0001
maximum_claim_price___5K		1	3.59088E-11	0	Infty	<.0001
maximum_claim_price__20K		1	-2.5542E-10	0	-Infty	<.0001
maximum_claim_price__32K		0	0	.	.	.
maximum_claim_price__15K		1	-2.27983E-9	0	-Infty	<.0001
maximum_claim_price__35K		1	-3.51861E-9	0	-Infty	<.0001
maximum_claim_price__30K		1	-1.55623E-9	0	-Infty	<.0001
maximum_claim_price___8K		1	-2.74172E-9	0	-Infty	<.0001
maximum_claim_price__17K		1	-2.67739E-9	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		0	0	.	.	.
maximum_claim_price__13K		1	-3.65309E-9	0	-Infty	<.0001
maximum_claim_price__80K		1	-3.67195E-9	0	-Infty	<.0001
grade_1		0	0	.	.	.
grade_2		1	-1.06139E-8	0	-Infty	<.0001
grade_3		1	-3.5978E-9	0	-Infty	<.0001
number_of_runners__3		0	0	.	.	.
number_of_runners__4		B	7.46405E-10	0	Infty	<.0001
number_of_runners__5		B	5.45679E-10	0	Infty	<.0001
number_of_runners__6		B	9.22377E-10	0	Infty	<.0001
number_of_runners__7		B	9.30165E-10	0	Infty	<.0001
number_of_runners__8		B	7.48143E-10	0	Infty	<.0001
number_of_runners__9		B	8.76899E-10	0	Infty	<.0001
number_of_runners_10		B	8.59392E-10	0	Infty	<.0001
number_of_runners_11		B	7.36799E-10	0	Infty	<.0001
number_of_runners_12		0	0	.	.	.
abbreviated_name_RACE_HAS		0	0	.	.	.
track_sealed_indicator_Y		1	4.64587E-11	0	Infty	<.0001

track_sealed_indicator_N		1	-6.6867E-10	0	-Infty	<.0001
race_date_Super_Bowl		1	-7.1066E-11	0	-Infty	<.0001
race_date_Patricks_Day		1	-8.0191E-11	0	-Infty	<.0001
race_date_Good_Friday		1	1.37936E-10	0	Infty	<.0001
race_date_Easter		1	-3.315E-11	0	-Infty	<.0001
race_date_Cinco_Mayo		0	0	.	.	.
race_date_Memorial_Day		0	0	.	.	.
race_date_Indep_Day		0	0	.	.	.
race_date_Labor_Day		0	0	.	.	.
race_date_Veterans_Day		0	0	.	.	.
race_date_Thanksgiving		1	4.52022E-10	0	Infty	<.0001
race_date_Boxing_Day		0	0	.	.	.
race_date_New_Year_Day		1	-1.049E-10	0	-Infty	<.0001
race_weekday_Sun		1	7.27791E-12	0	Infty	<.0001
race_weekday_Mon		1	2.14938E-10	0	Infty	<.0001
race_weekday_Wed		0	0	.	.	.
race_weekday_Thu		1	5.12821E-11	0	Infty	<.0001
race_weekday_Fri		1	5.73901E-11	0	Infty	<.0001
race_weekday_Sat		1	-7.8754E-12	0	-Infty	<.0001

FG Track Linear Model using Development Dataset

The REG Procedure
Model: FG_TRACK
Dependent Variable: handle


Fit Diagnostics for handle
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Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
handle
Predicted Value
Cook's D
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Percent
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Fit–Mean
Residual
Proportion Less
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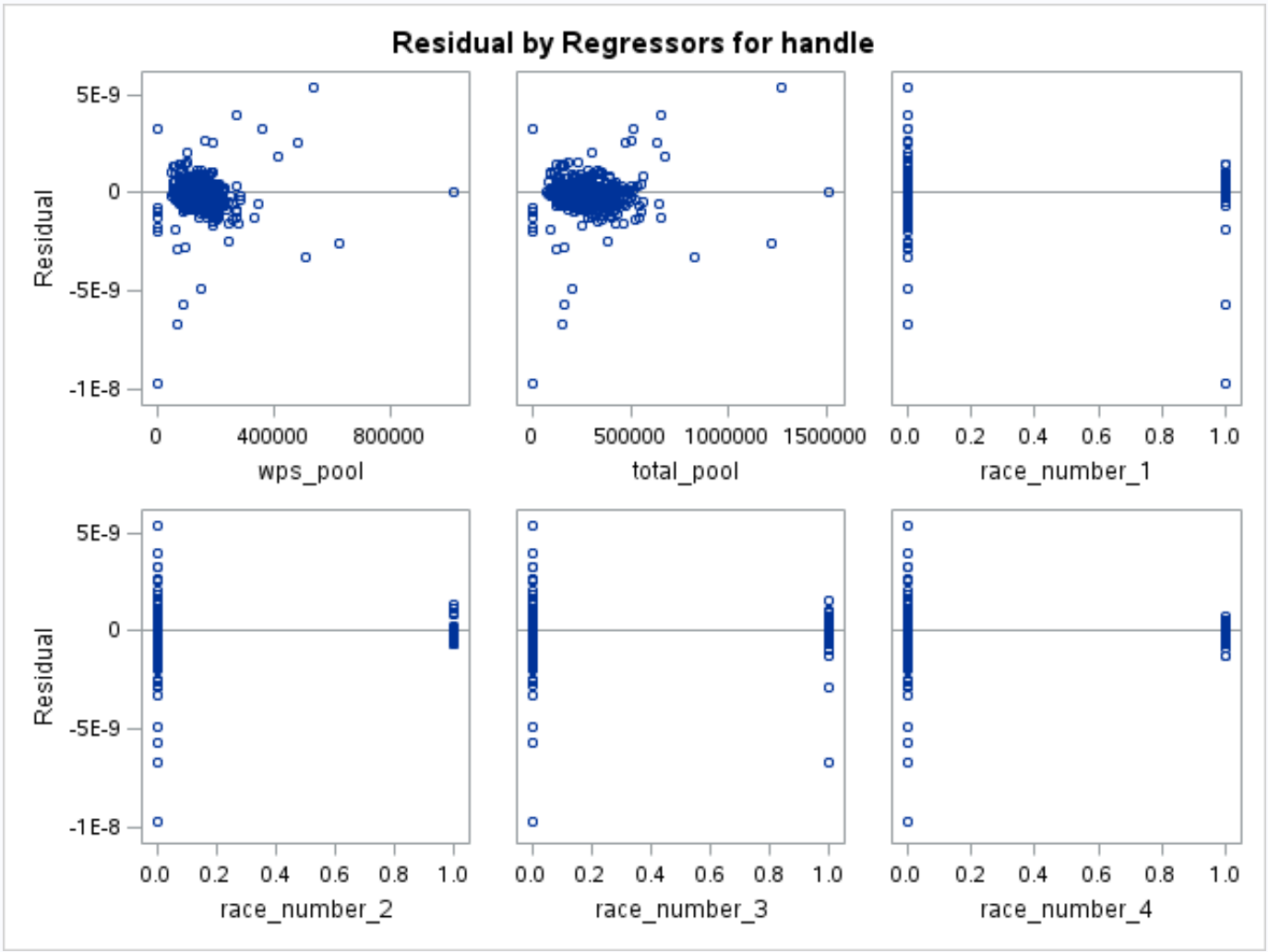
Parameters 109
Error DF 481
MSE 0
R-Square 1
Adj R-Square 1


Residual by Regressors for handle
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-1E-8
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800000
wps_pool
0
500000
1000000
1500000
total_pool
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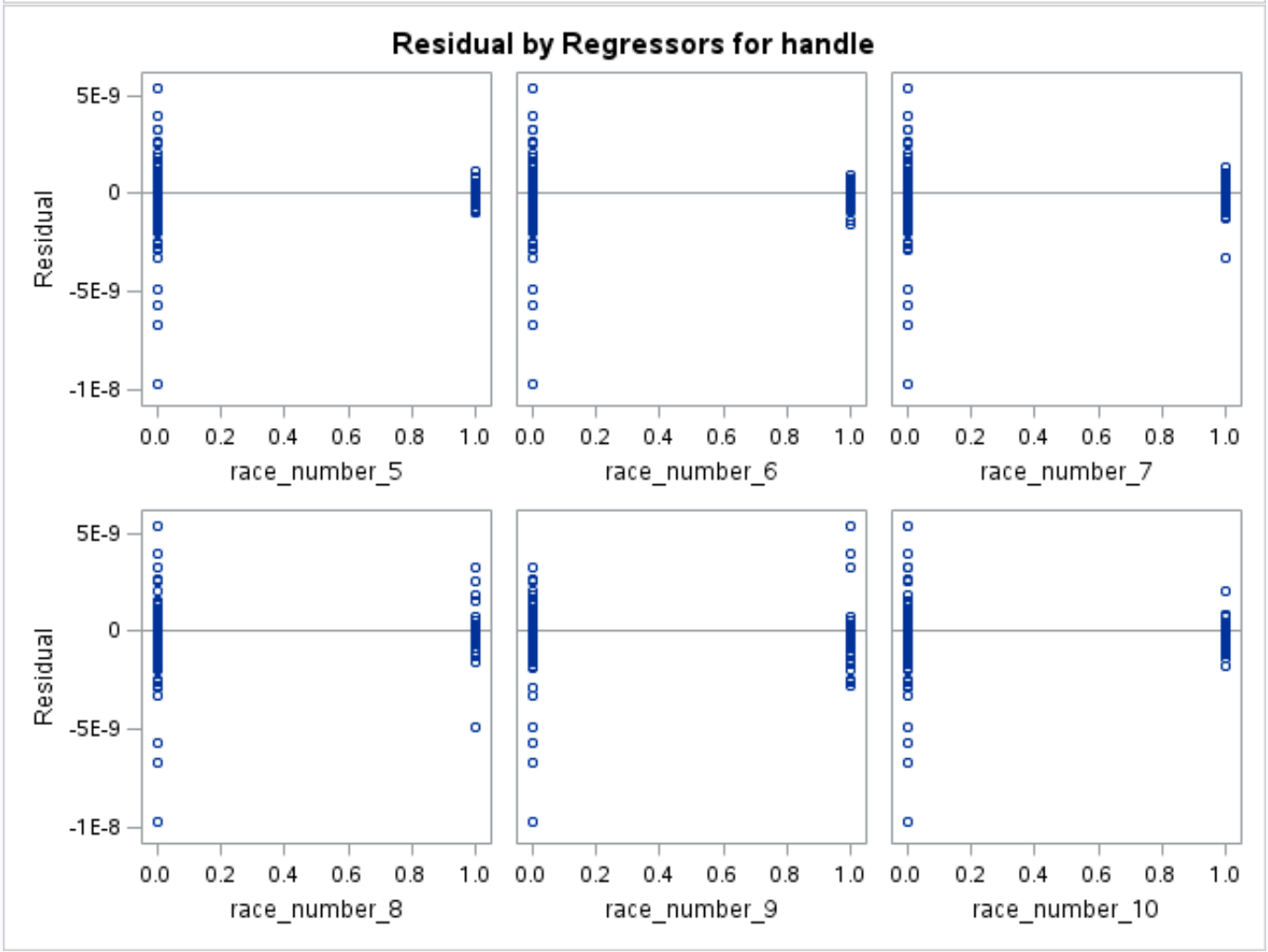
0.2
0.4
0.6
0.8
1.0
race_number_1
race_number_2
race_number_3
race_number_4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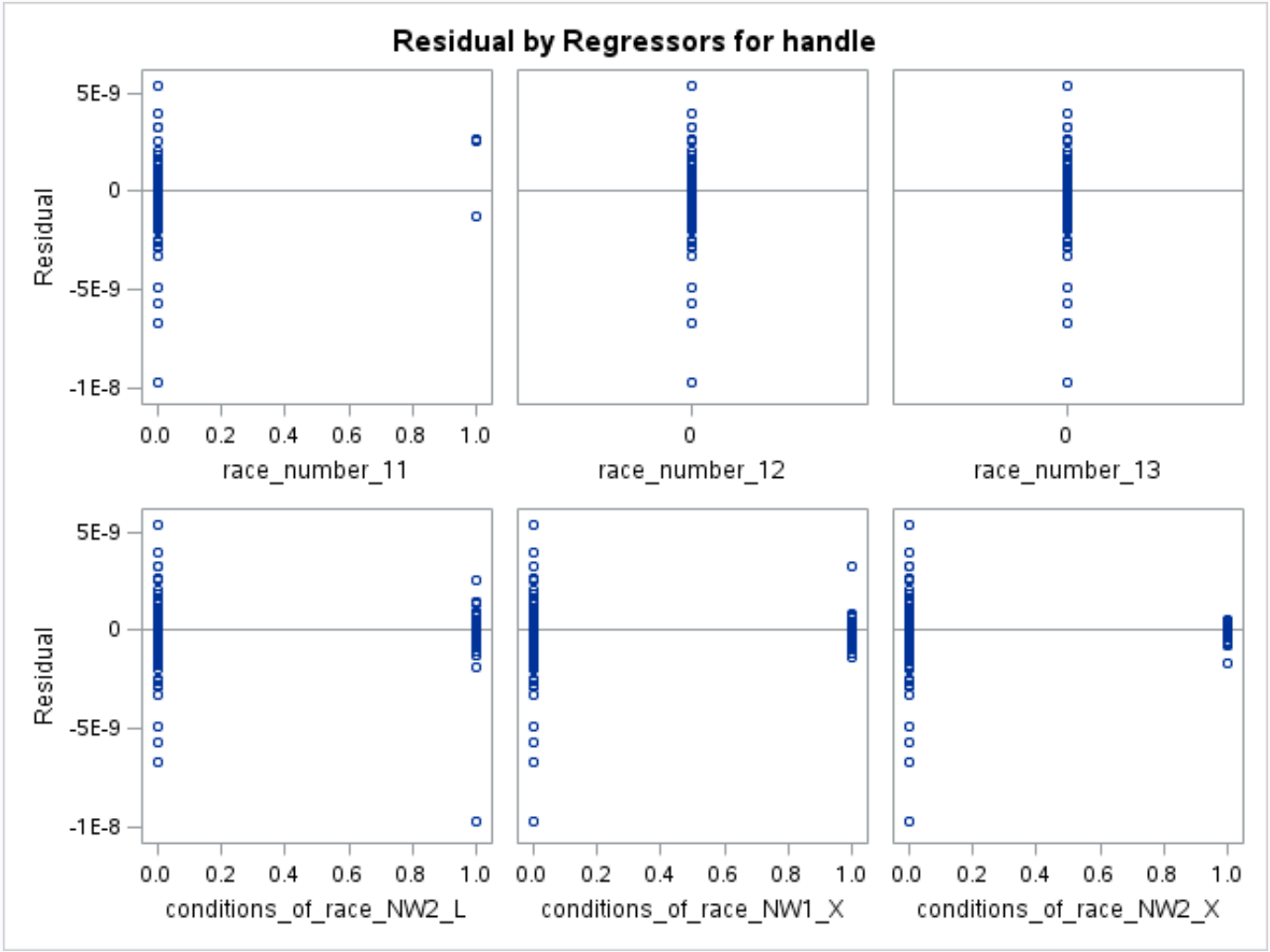
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_number_5
race_number_6
race_number_7
race_number_8
race_number_9
race_number_10


Residual by Regressors for handle
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-5E-9
-1E-8
0.0 0.2 0.4 0.6 0.8 1.0
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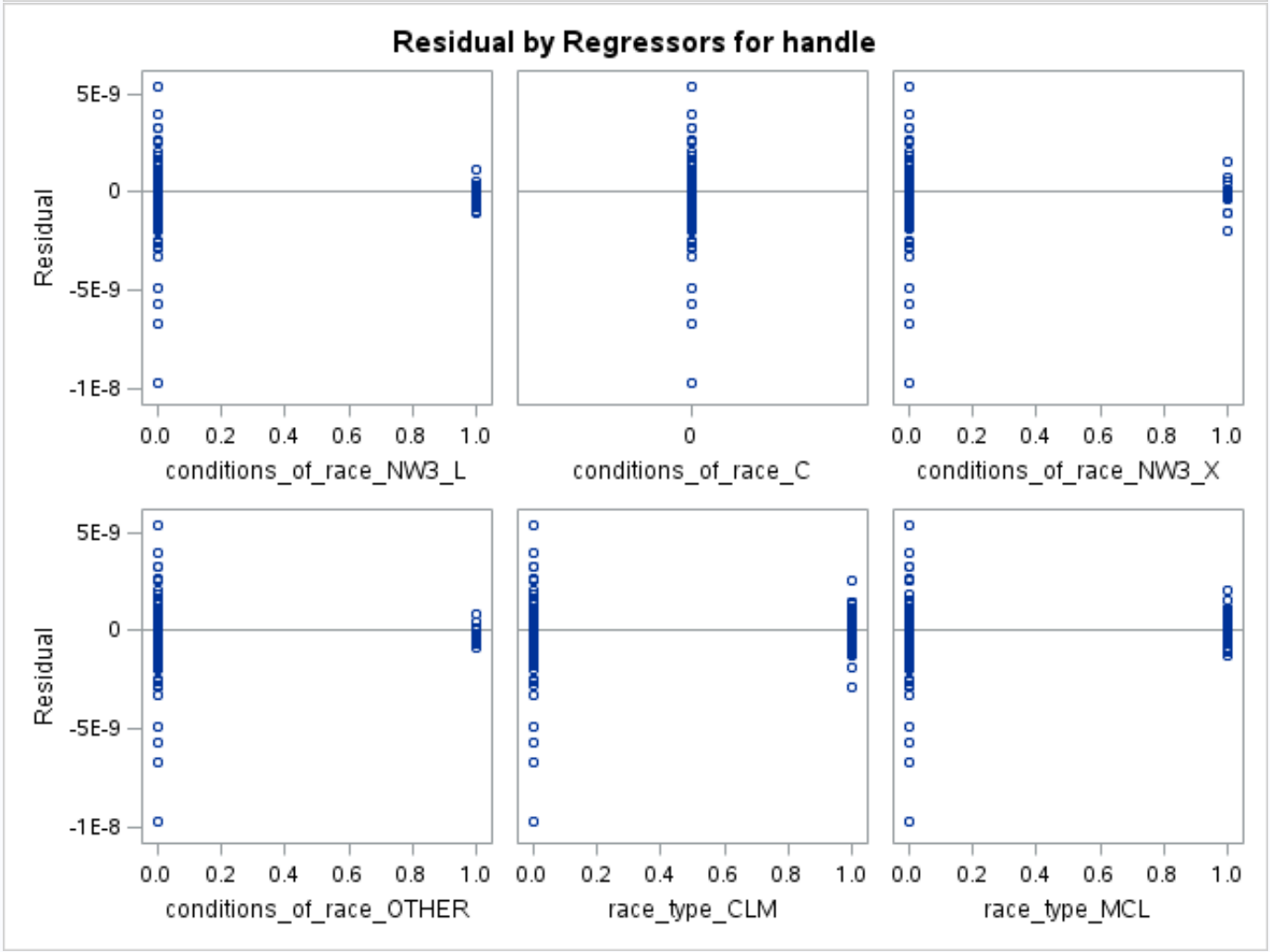
race_number_12
0
race_number_13
conditions_of_race_NW2_L
conditions_of_race_NW1_X
conditions_of_race_NW2_X


Residual by Regressors for handle
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-5E-9
-1E-8
0.0 0.2 0.4 0.6 0.8 1.0
conditions_of_race_NW3_L
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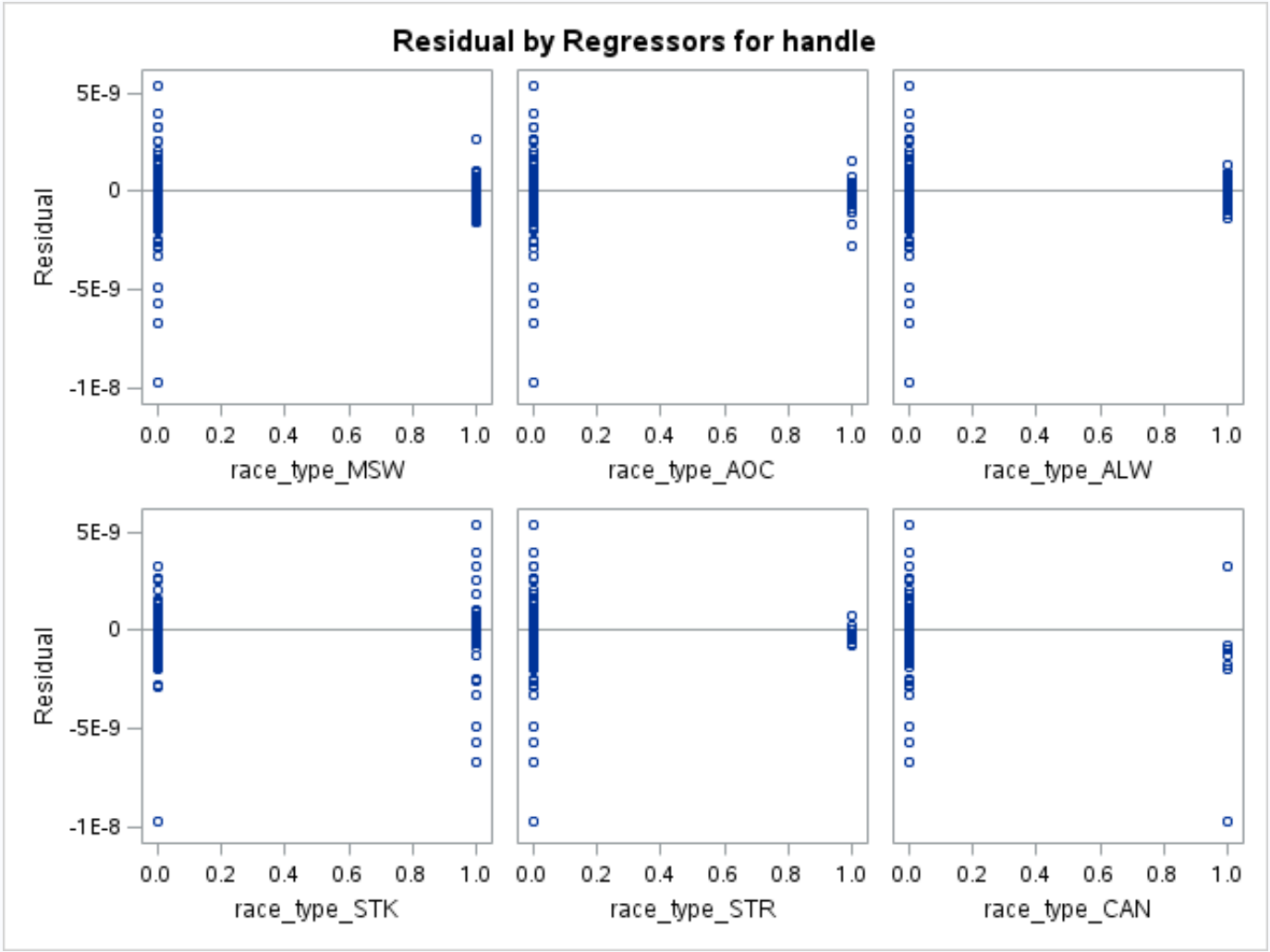
conditions_of_race_C
conditions_of_race_NW3_X
conditions_of_race_OTHER
race_type_CLM
race_type_MCL


Residual by Regressors for handle
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0.2
0.4
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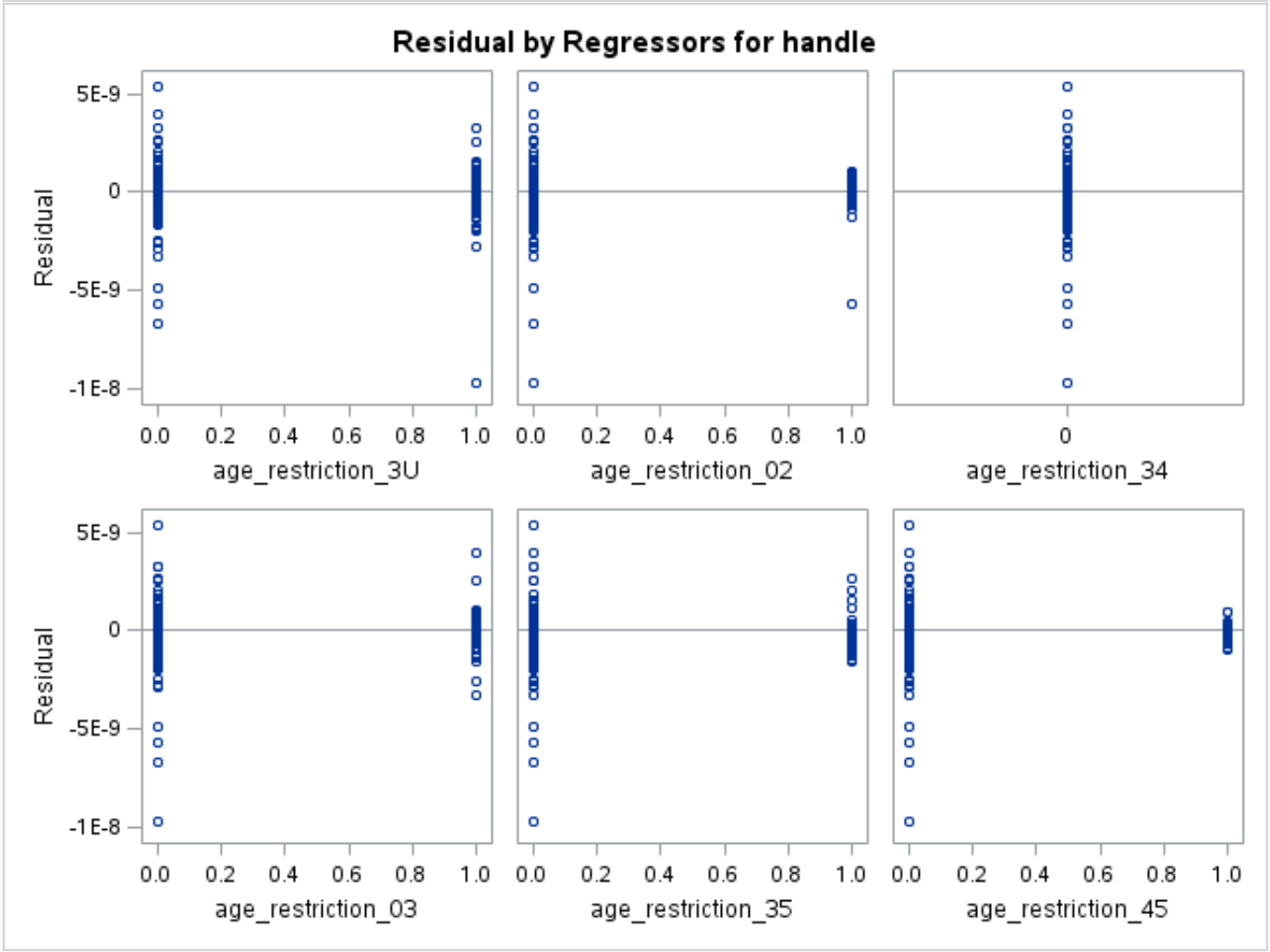
race_type_AOC
race_type_ALW
race_type_STK
race_type_STR
race_type_CAN


Residual by Regressors for handle
Residual
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-5E-9
-1E-8
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0.4
0.6
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age_restriction_02
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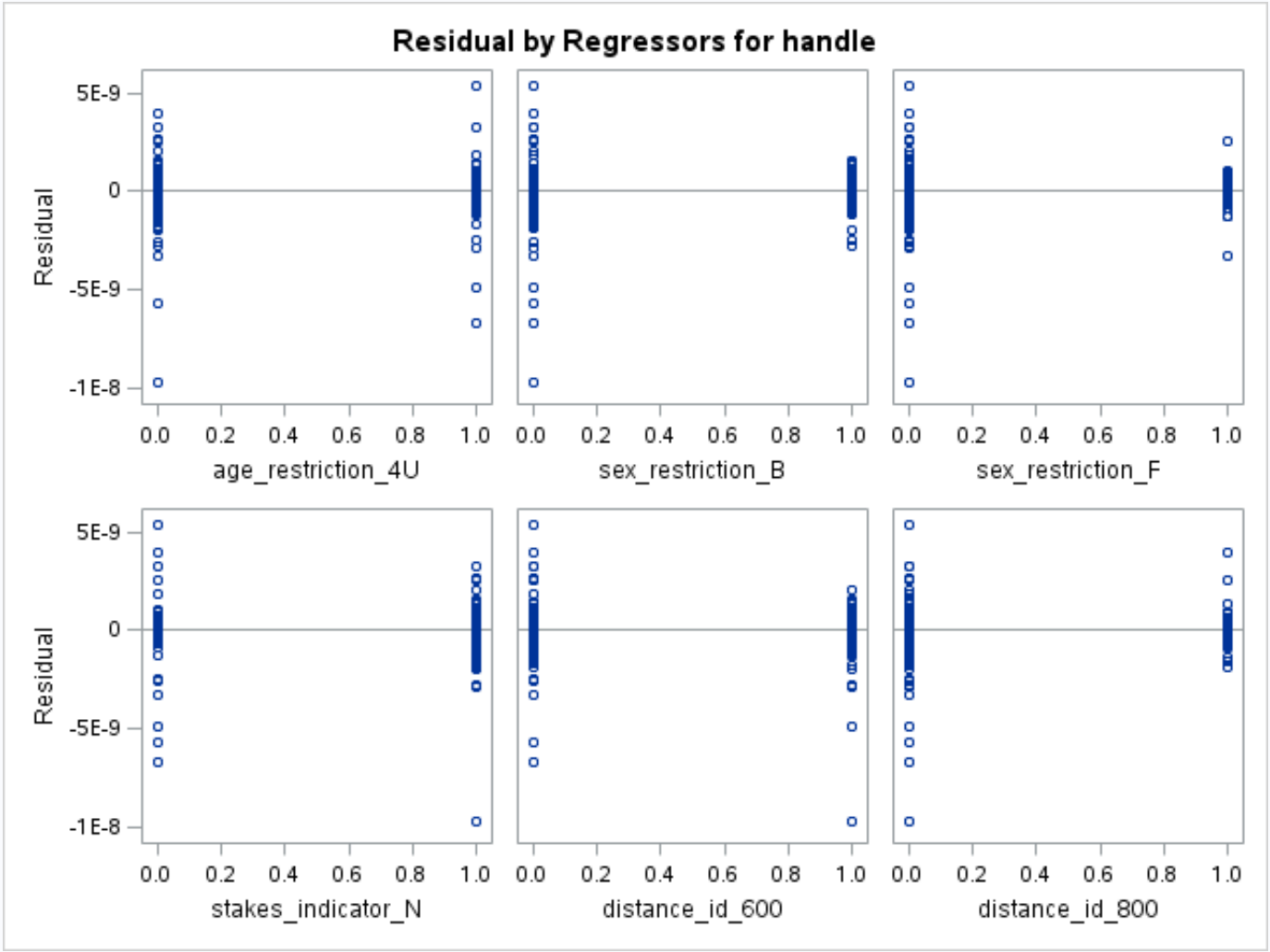
age_restriction_34
age_restriction_03
age_restriction_35
age_restriction_45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-5E-9
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0.2
0.4
0.6
0.8
1.0
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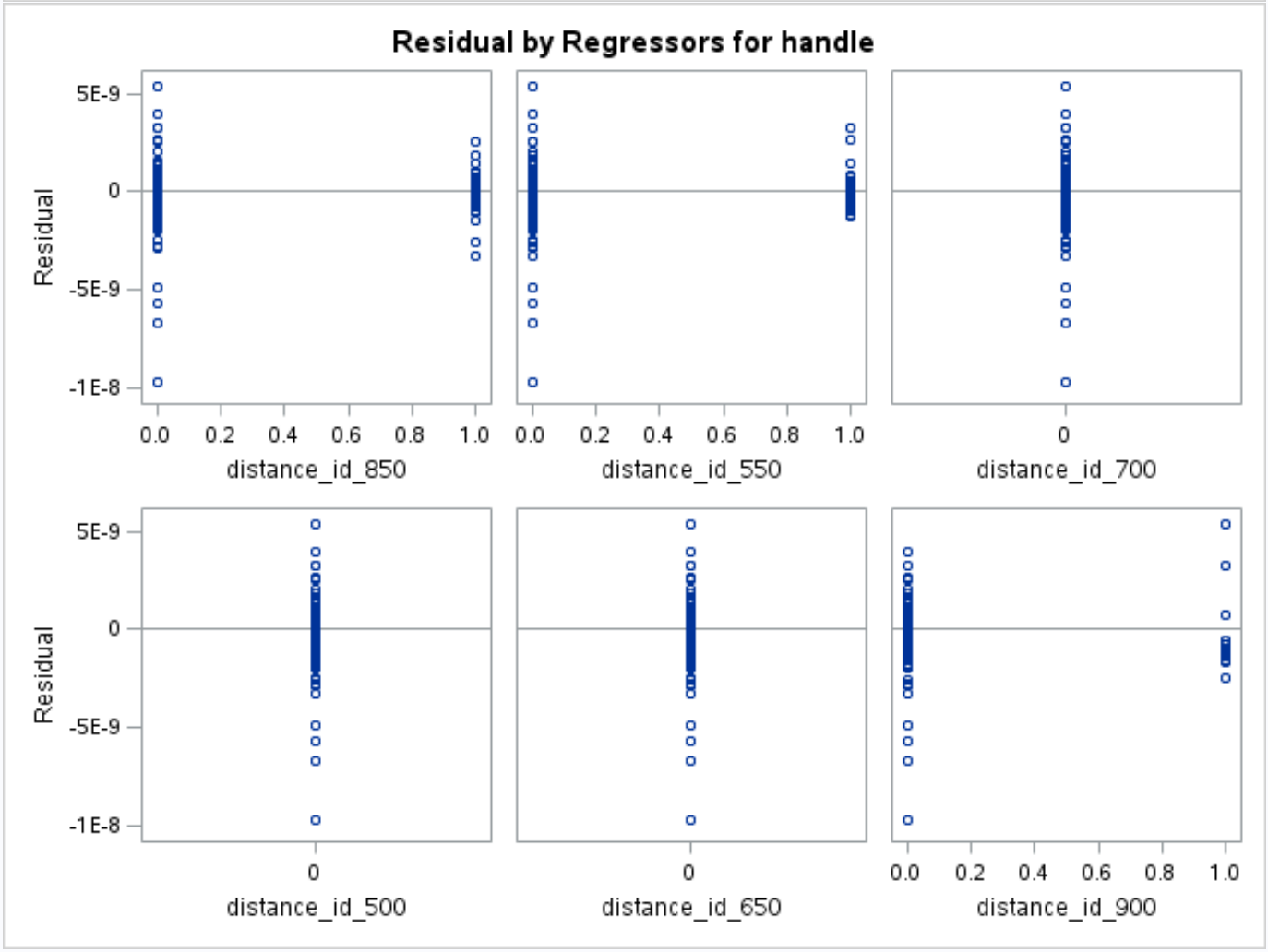
sex_restriction_B
sex_restriction_F
stakes_indicator_N
distance_id_600
distance_id_800


Residual by Regressors for handle
Residual
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-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
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distance_id_550
distance_id_700
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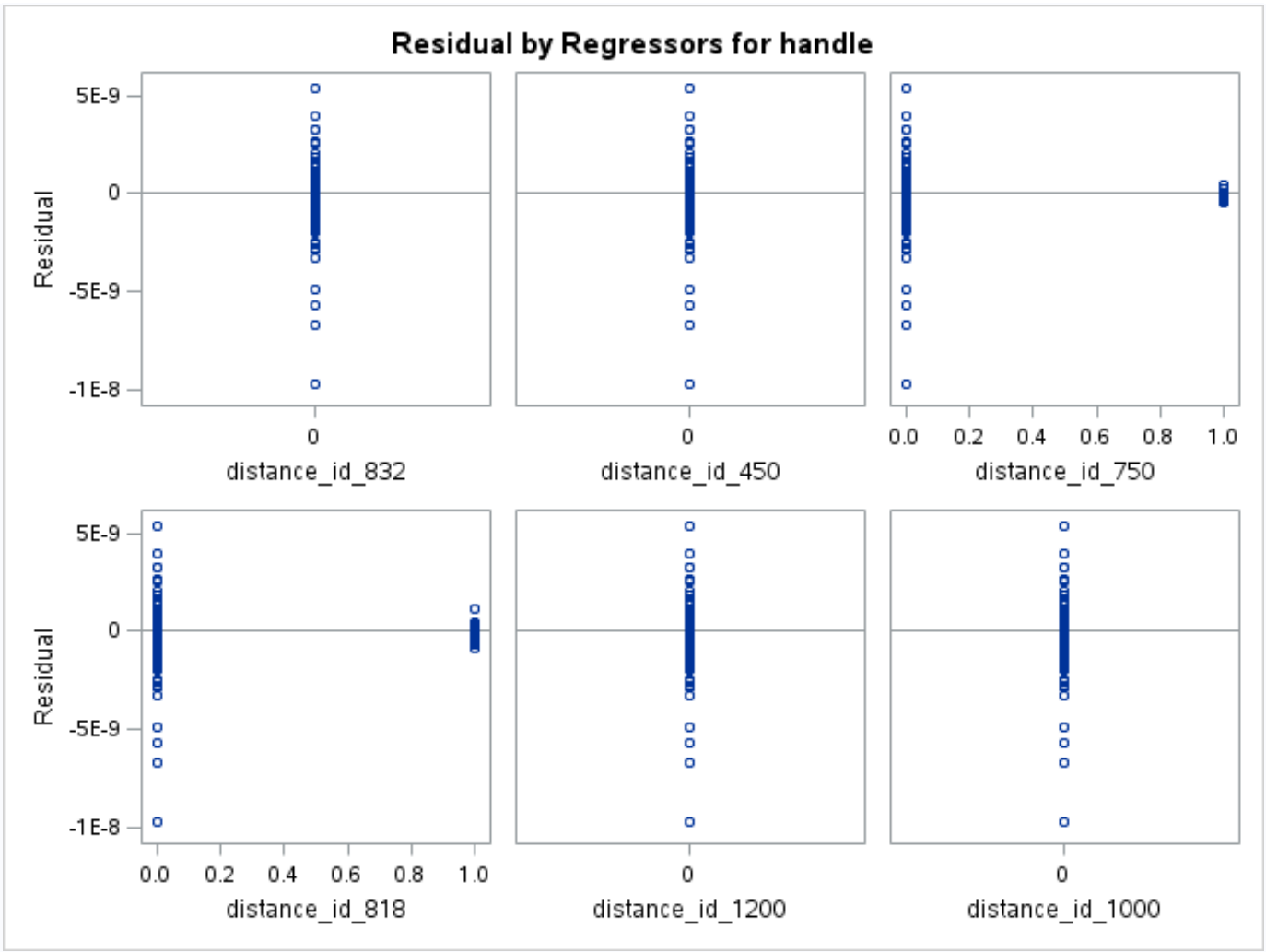
distance_id_500
distance_id_650
distance_id_900


Residual by Regressors for handle
Residual
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-5E-9
-1E-8
0
distance_id_832
distance_id_450
distance_id_750
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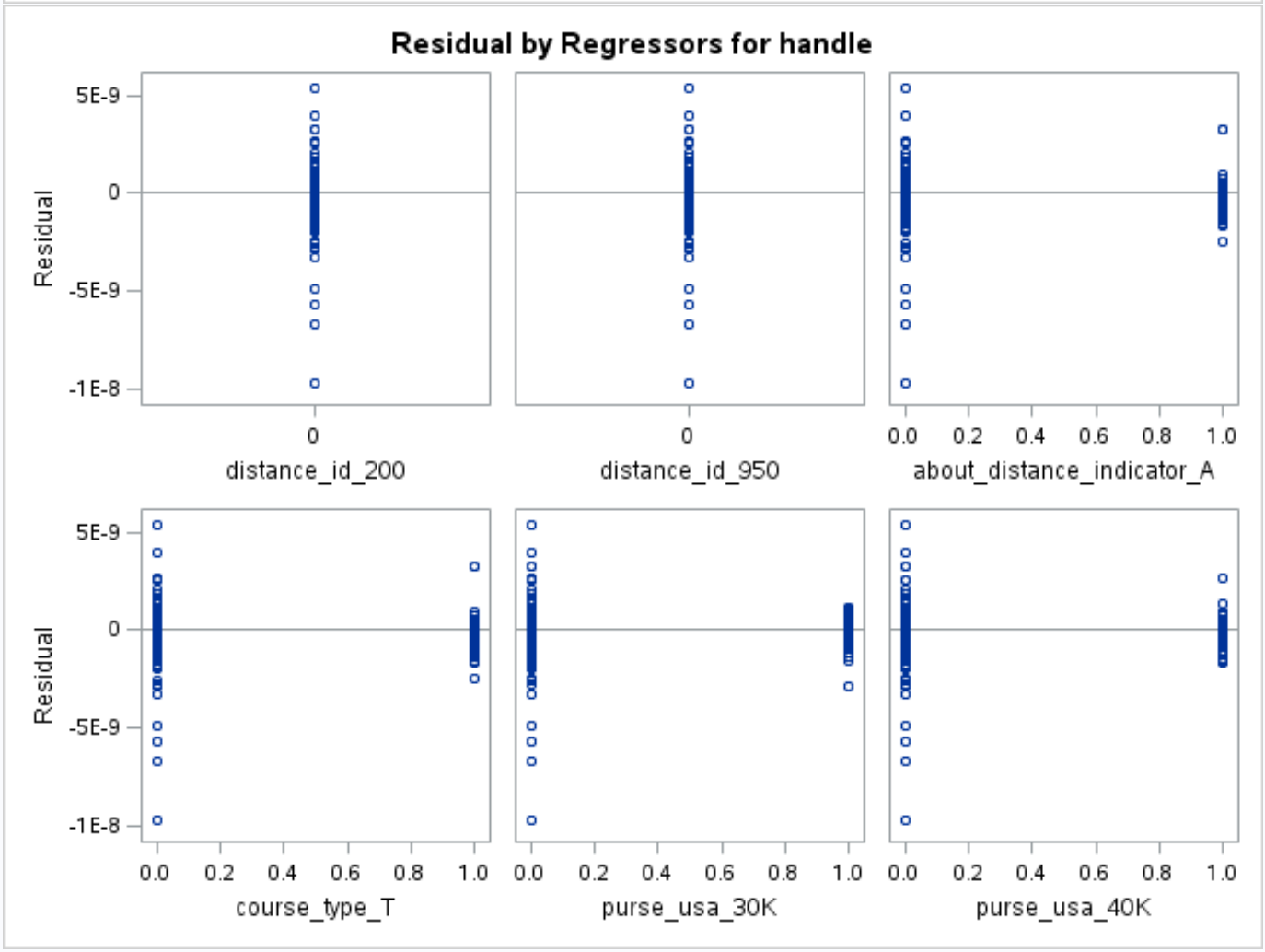
0.2
0.4
0.6
0.8
1.0
distance_id_818
distance_id_1200
distance_id_1000


Residual by Regressors for handle
Residual
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-5E-9
-1E-8
0
distance_id_200
distance_id_950
about_distance_indicator_A
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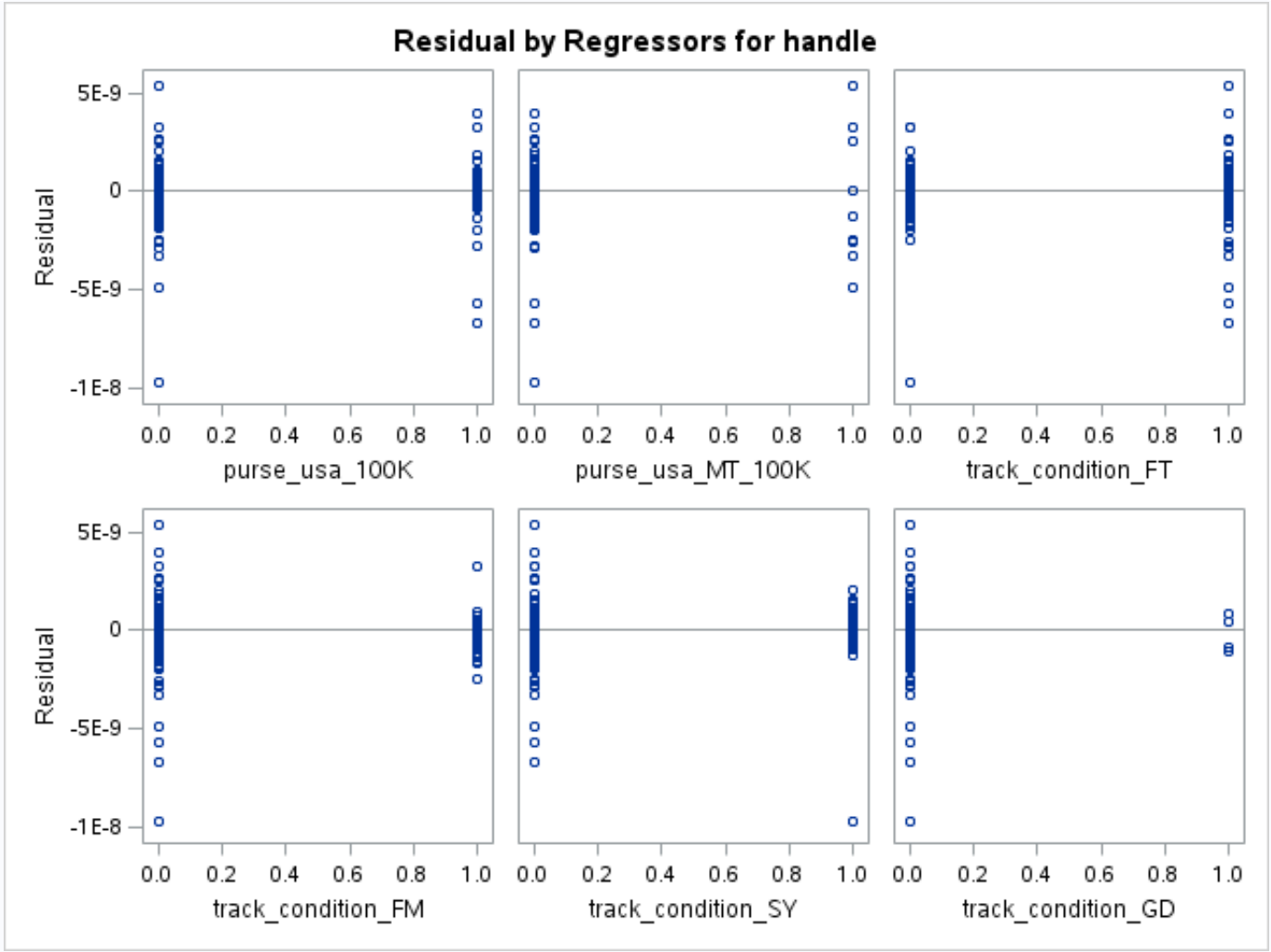
0.2
0.4
0.6
0.8
1.0
course_type_T
purse_usa_30K
purse_usa_40K


Residual by Regressors for handle
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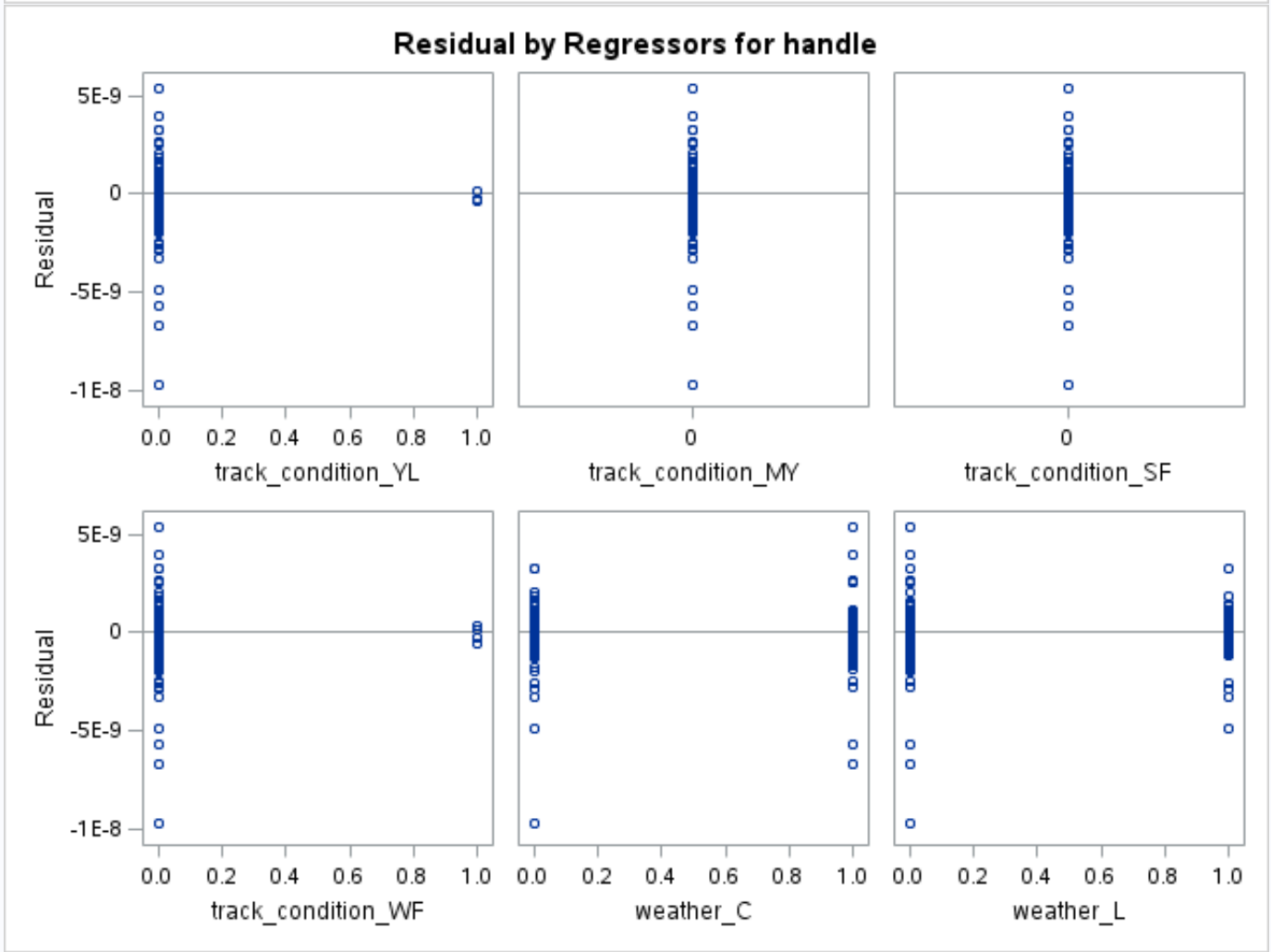
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
purse_usa_100K
purse_usa_MT_100K
track_condition_FT
track_condition_FM
track_condition_SY
track_condition_GD


Residual by Regressors for handle
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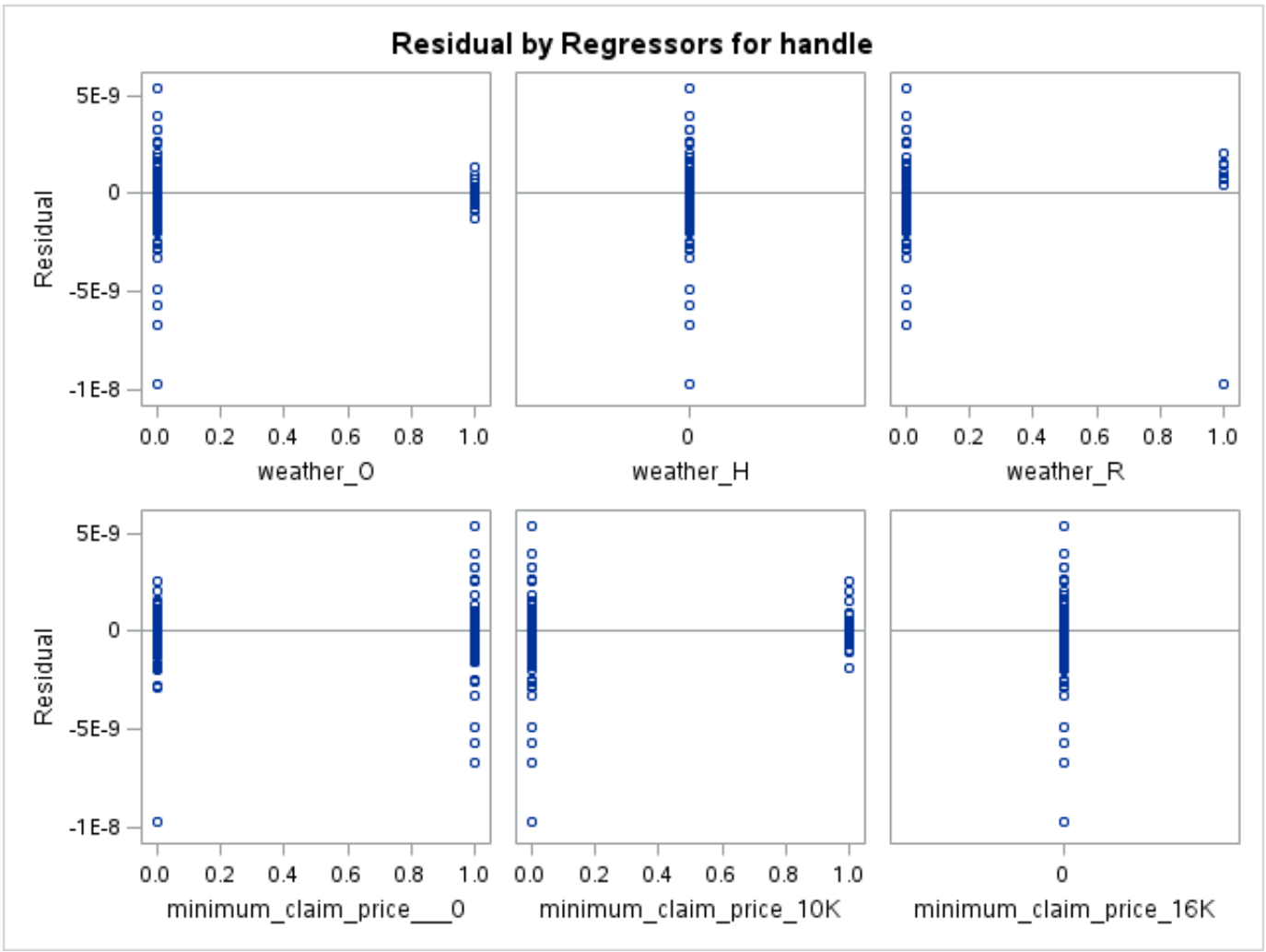
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
track_condition_YL
0
track_condition_MY
0
track_condition_SF
track_condition_WF
weather_C
weather_L


Residual by Regressors for handle
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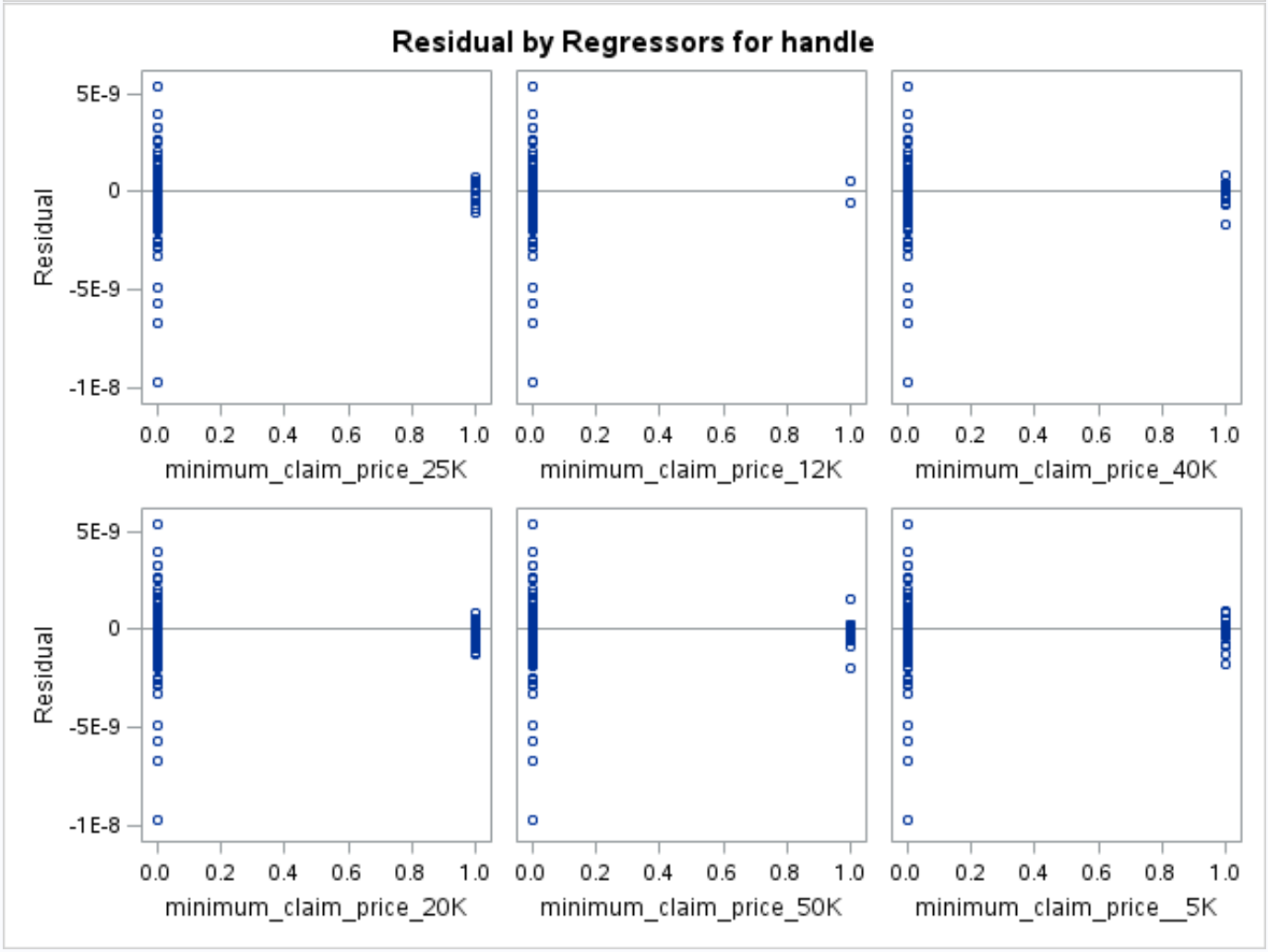
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
weather_O
0
weather_H
weather_R
minimum_claim_price___0
minimum_claim_price_10K
minimum_claim_price_16K


Residual by Regressors for handle
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-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
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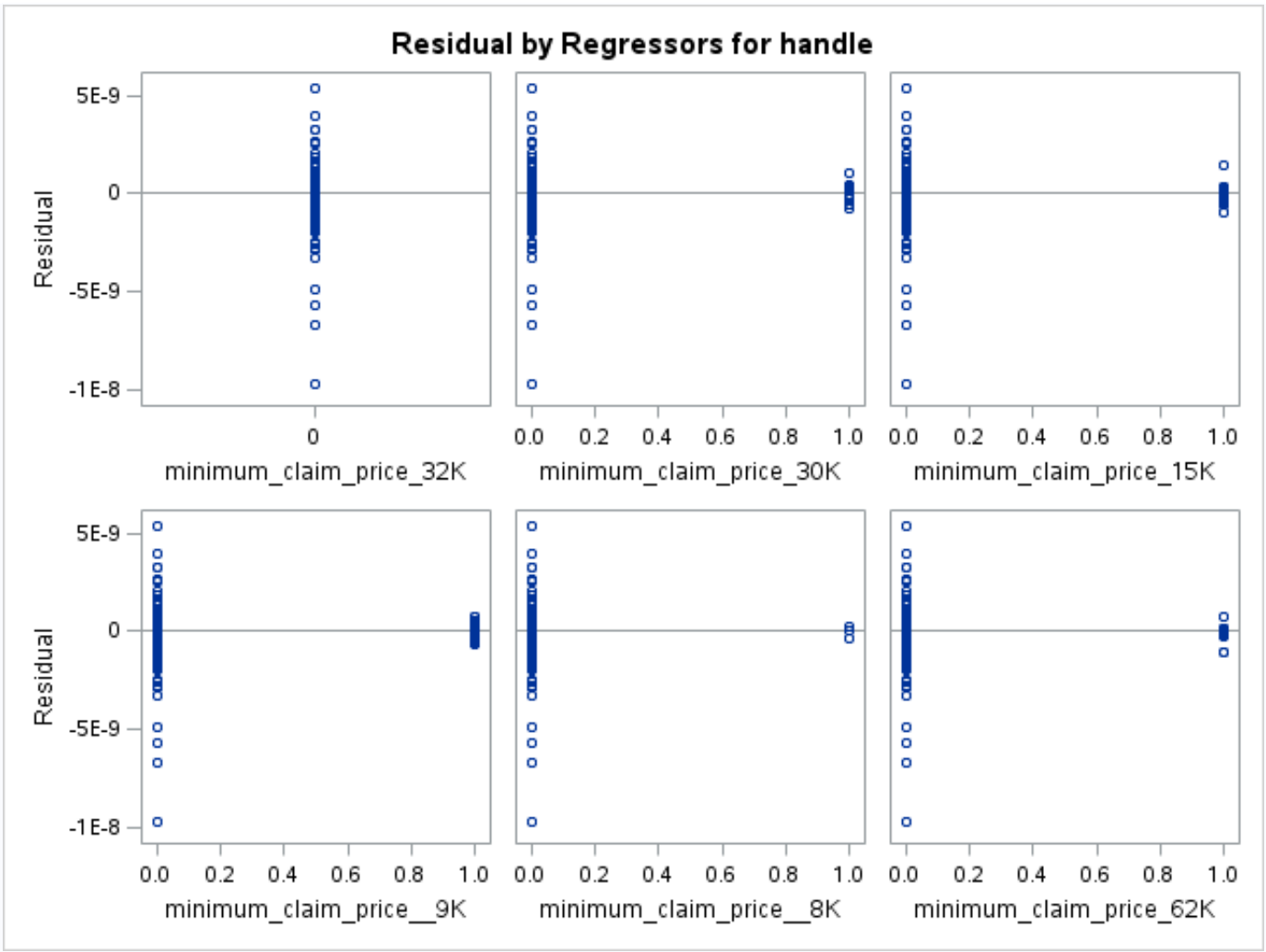
minimum_claim_price_12K
minimum_claim_price_40K
minimum_claim_price_20K
minimum_claim_price_50K
minimum_claim_price__5K


Residual by Regressors for handle
Residual
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-5E-9
-1E-8
0
0.0 0.2 0.4 0.6 0.8 1.0
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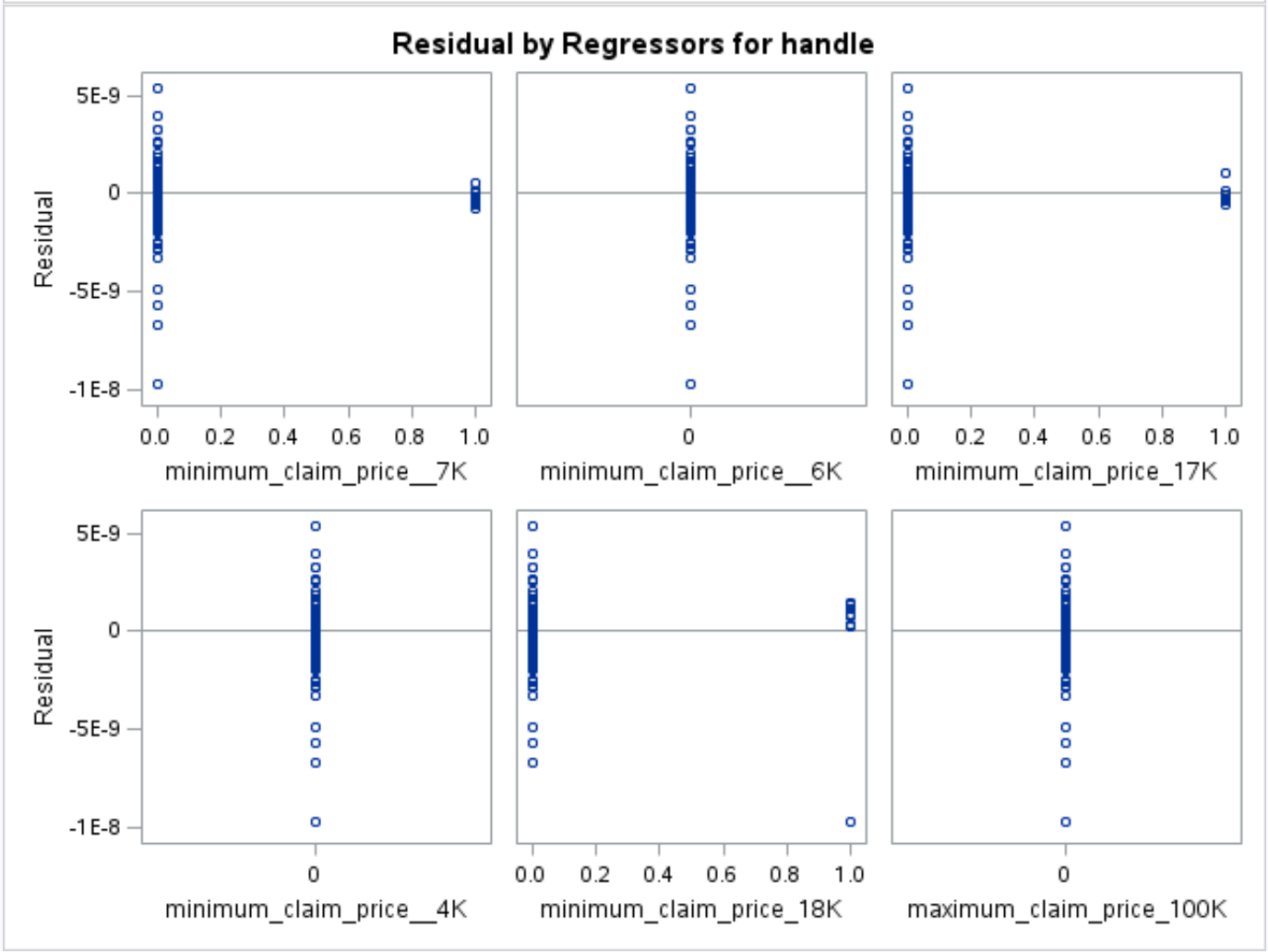
minimum_claim_price_30K
minimum_claim_price_15K
minimum_claim_price__9K
minimum_claim_price__8K
minimum_claim_price_62K


Residual by Regressors for handle
Residual
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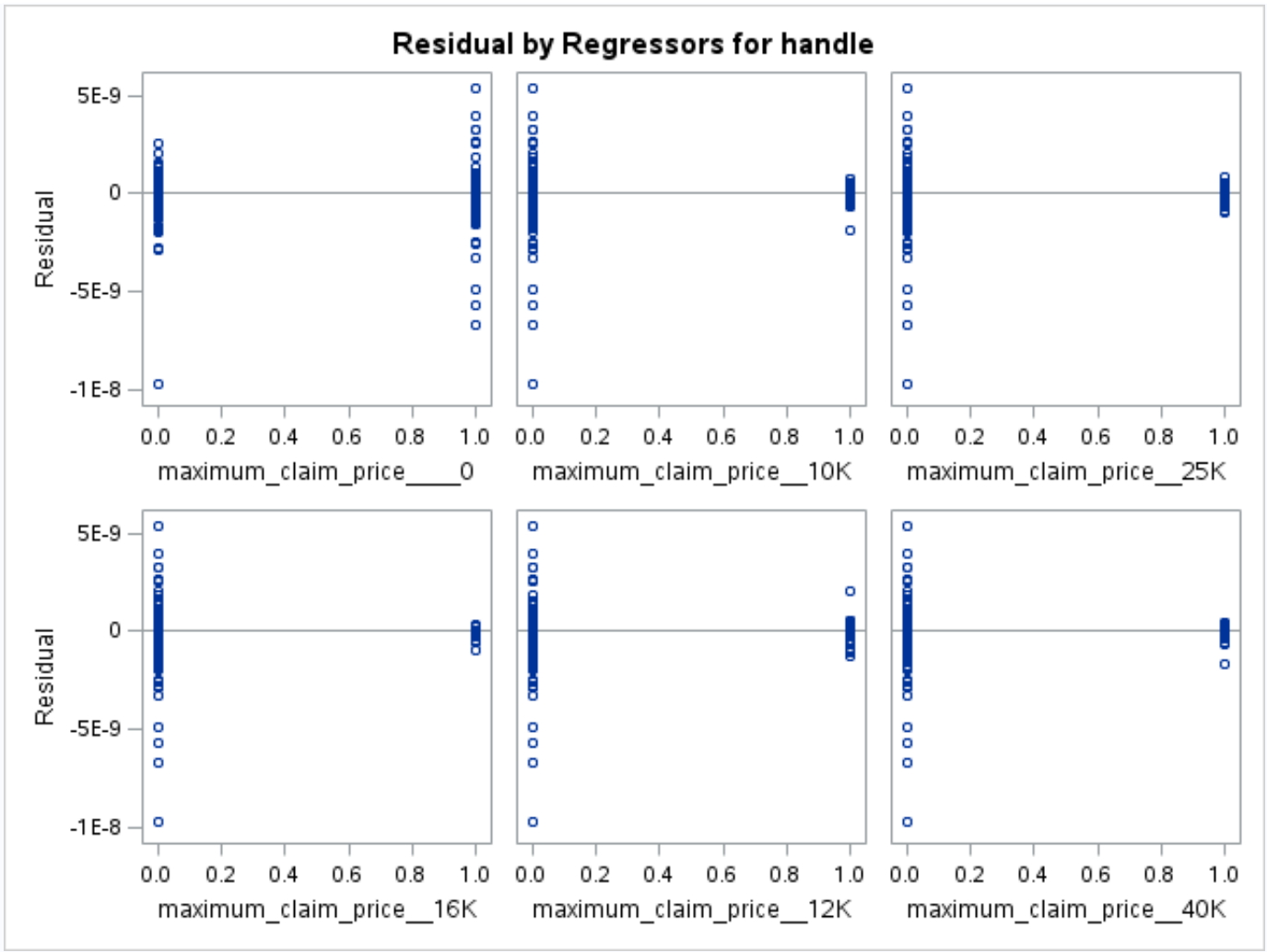
0
-5E-9
-1E-8
0.0 0.2 0.4 0.6 0.8 1.0
0
minimum_claim_price__7K
minimum_claim_price__6K
minimum_claim_price_17K
minimum_claim_price__4K
minimum_claim_price_18K
maximum_claim_price_100K


Residual by Regressors for handle
Residual
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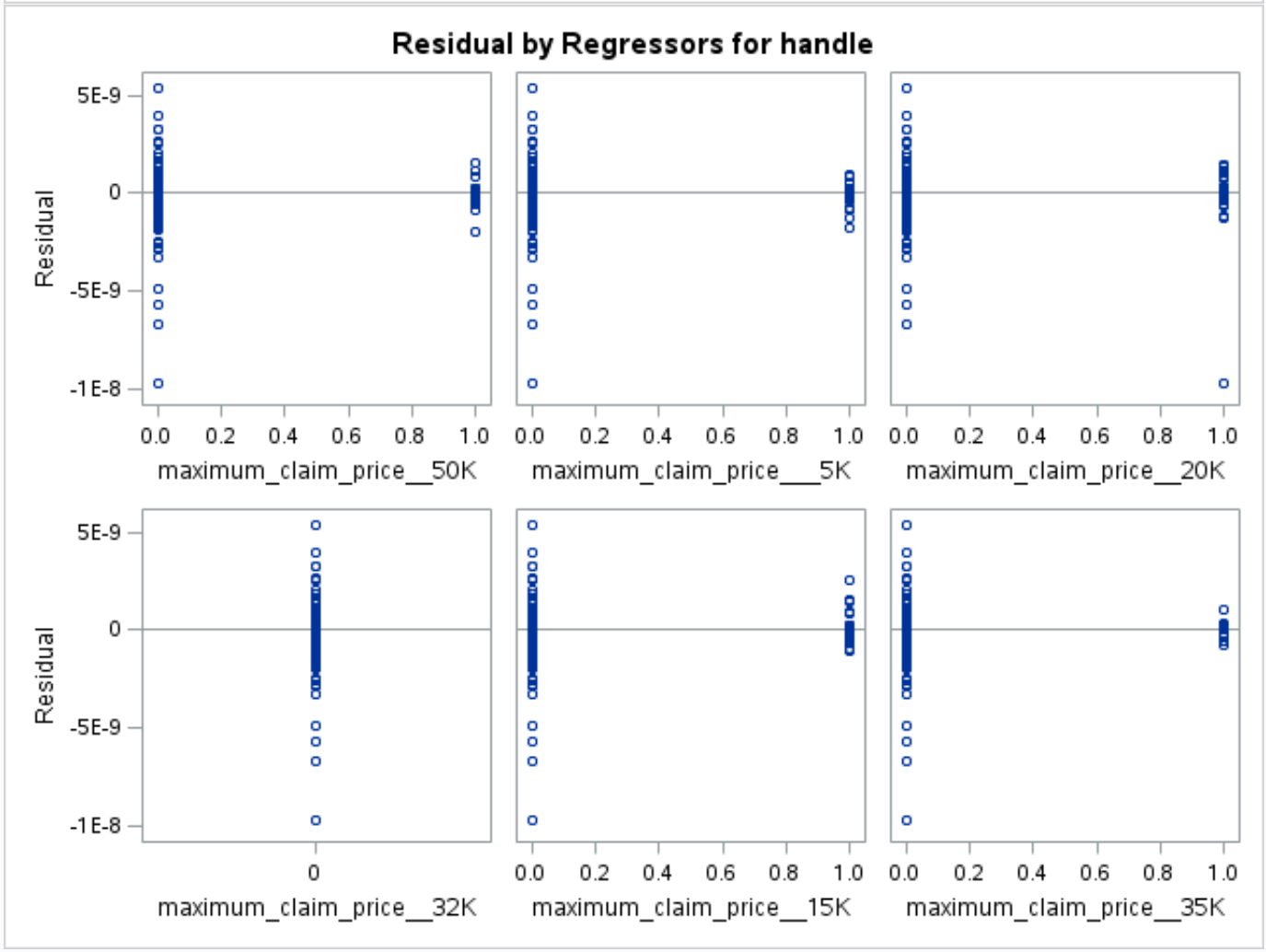
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price____0
maximum_claim_price__10K
maximum_claim_price__25K
maximum_claim_price__16K
maximum_claim_price__12K
maximum_claim_price__40K


Residual by Regressors for handle
Residual
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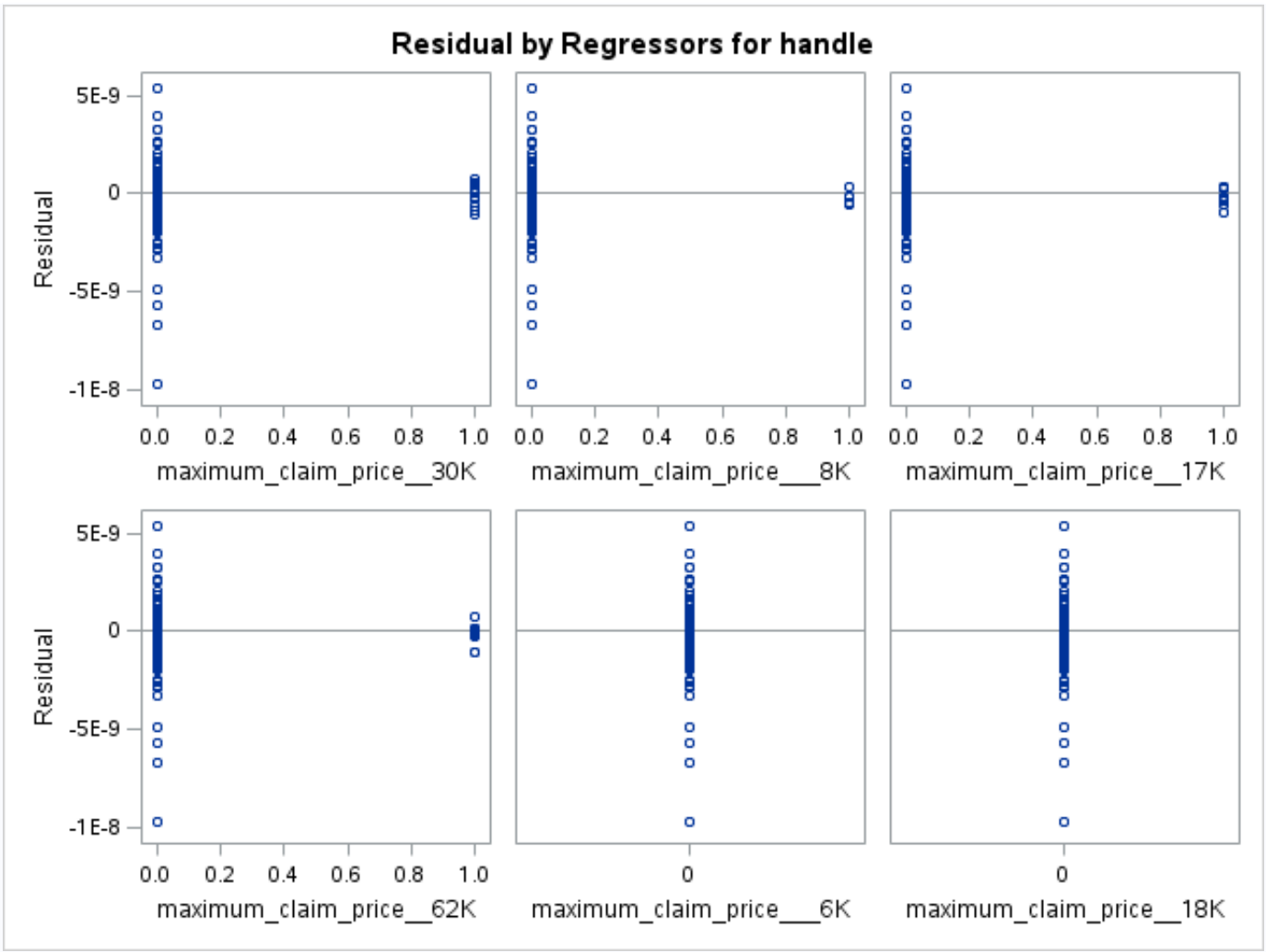
0
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price__50K
maximum_claim_price___5K
maximum_claim_price__20K
maximum_claim_price__32K
maximum_claim_price__15K
maximum_claim_price__35K


Residual by Regressors for handle
Residual
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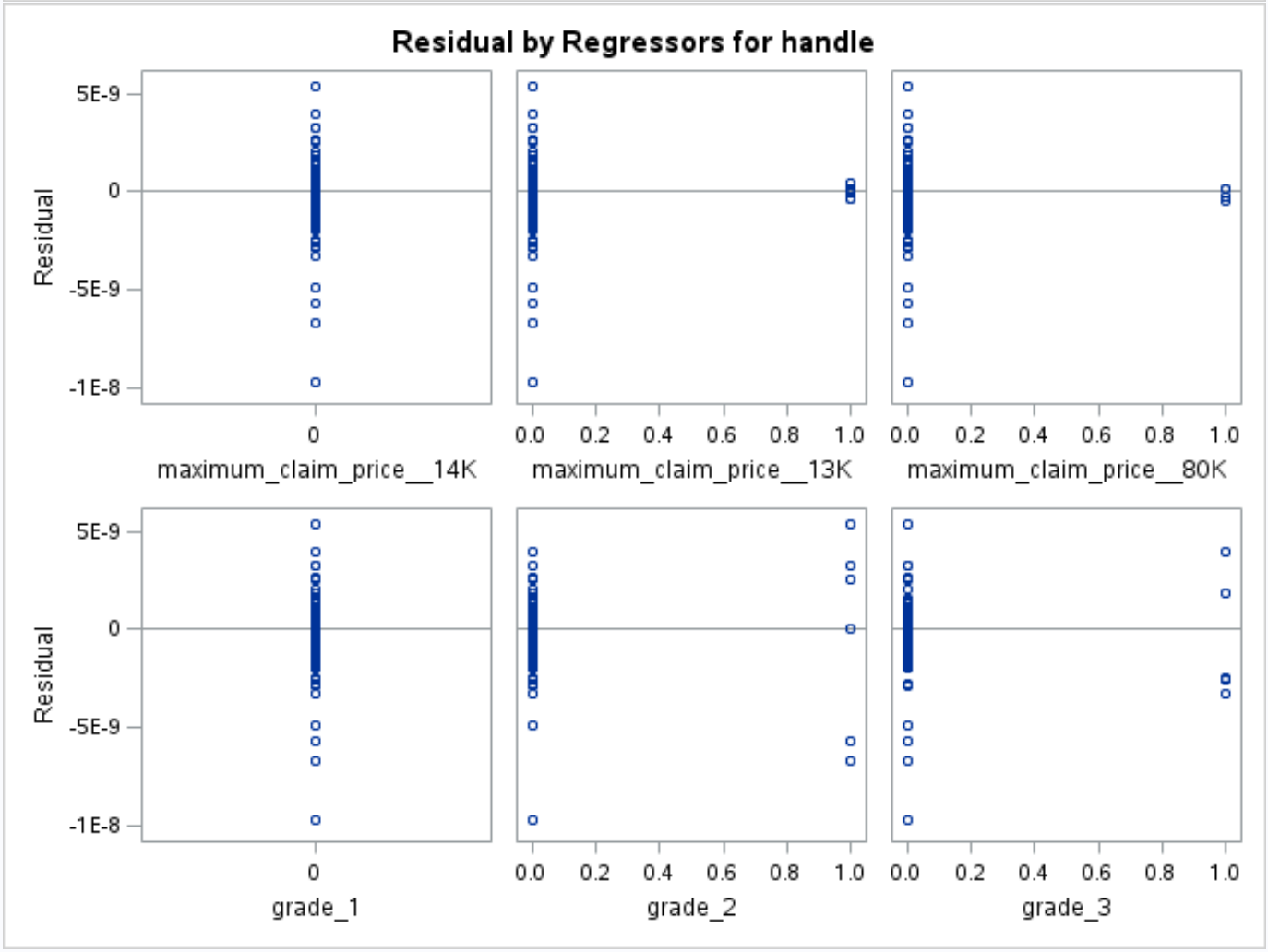
0
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price__30K
maximum_claim_price___8K
maximum_claim_price__17K
maximum_claim_price__62K
maximum_claim_price___6K
maximum_claim_price__18K


Residual by Regressors for handle
Residual
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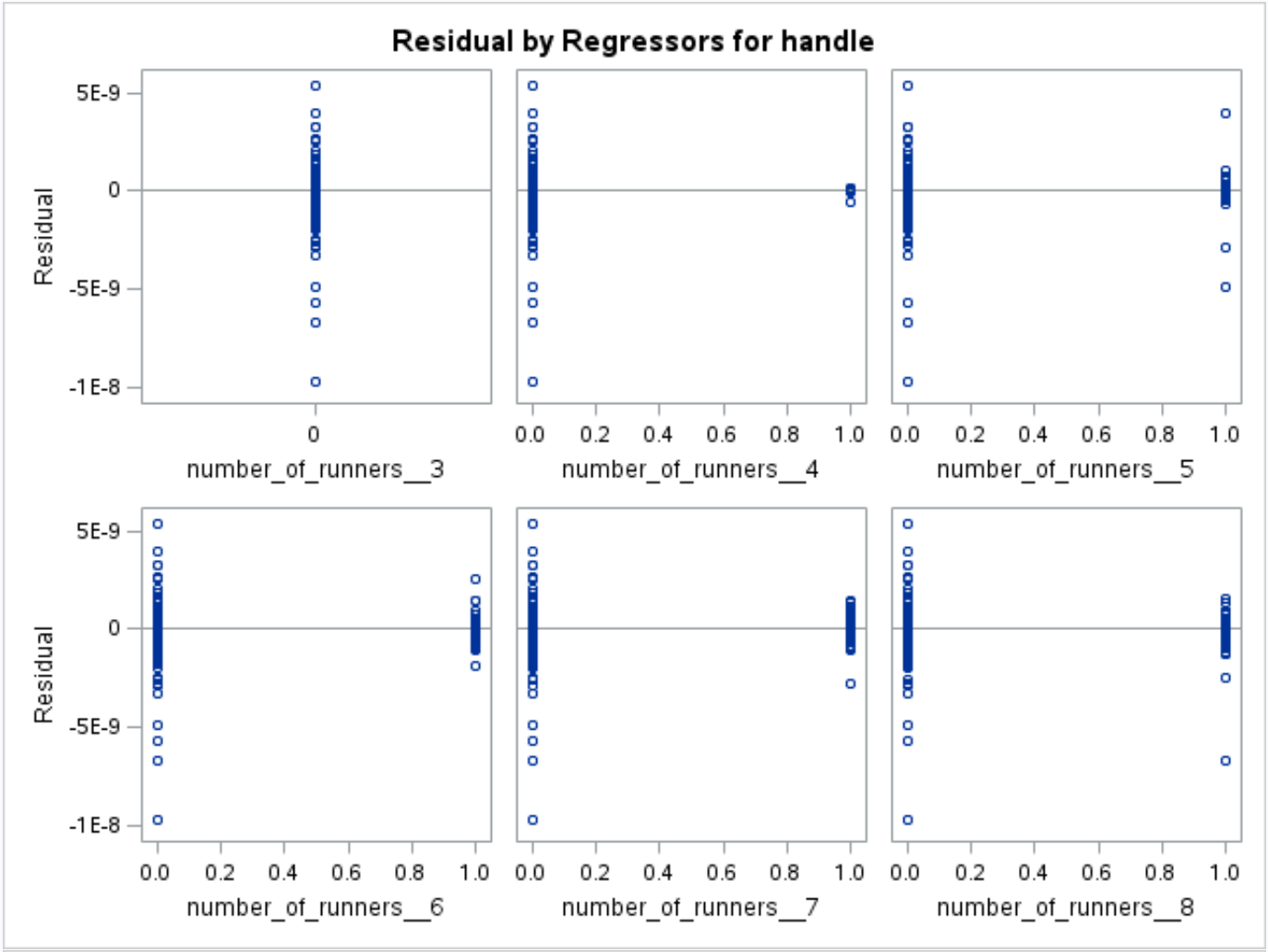
0
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
maximum_claim_price__14K
maximum_claim_price__13K
maximum_claim_price__80K
grade_1
grade_2
grade_3


Residual by Regressors for handle
Residual
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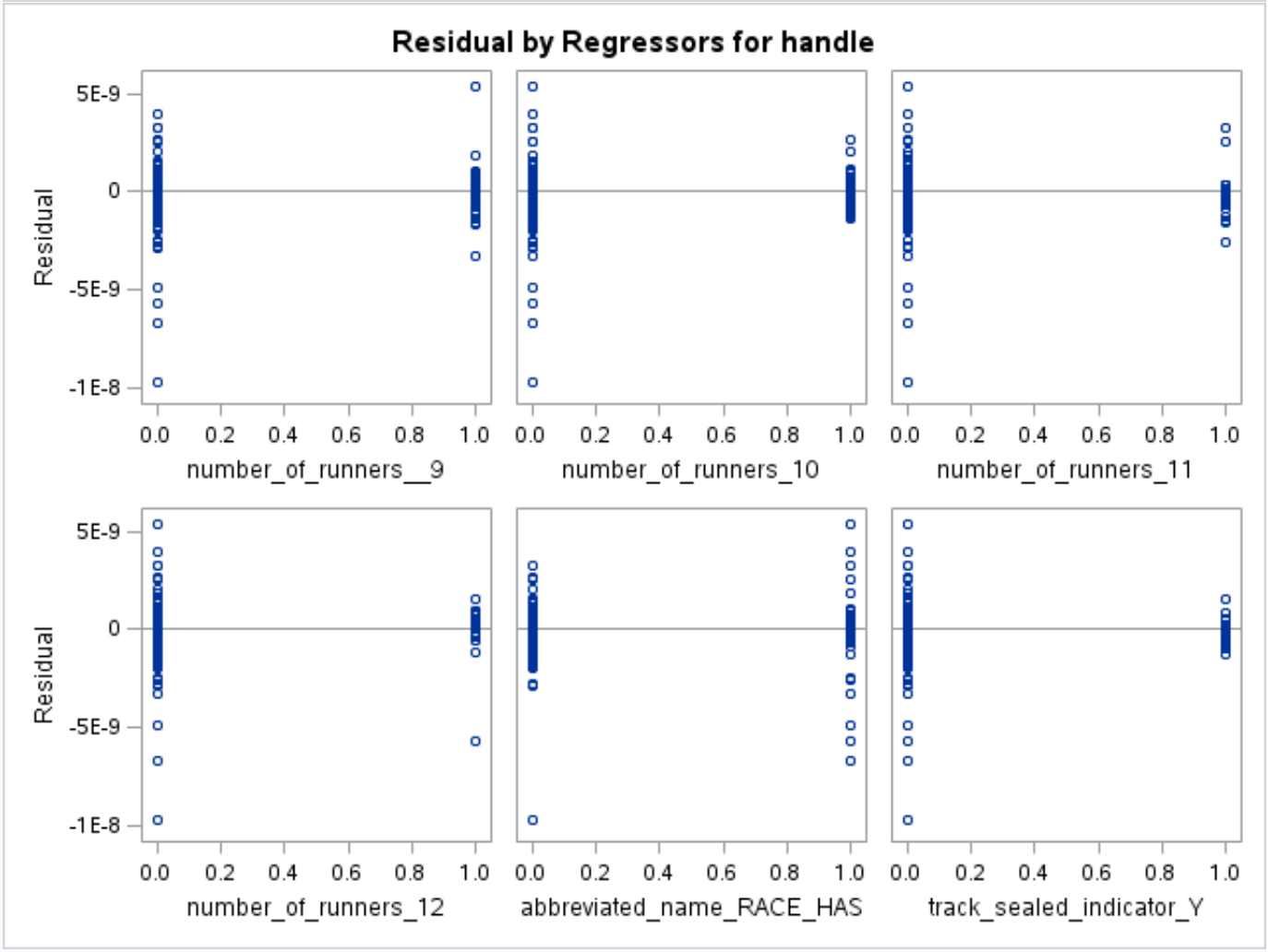
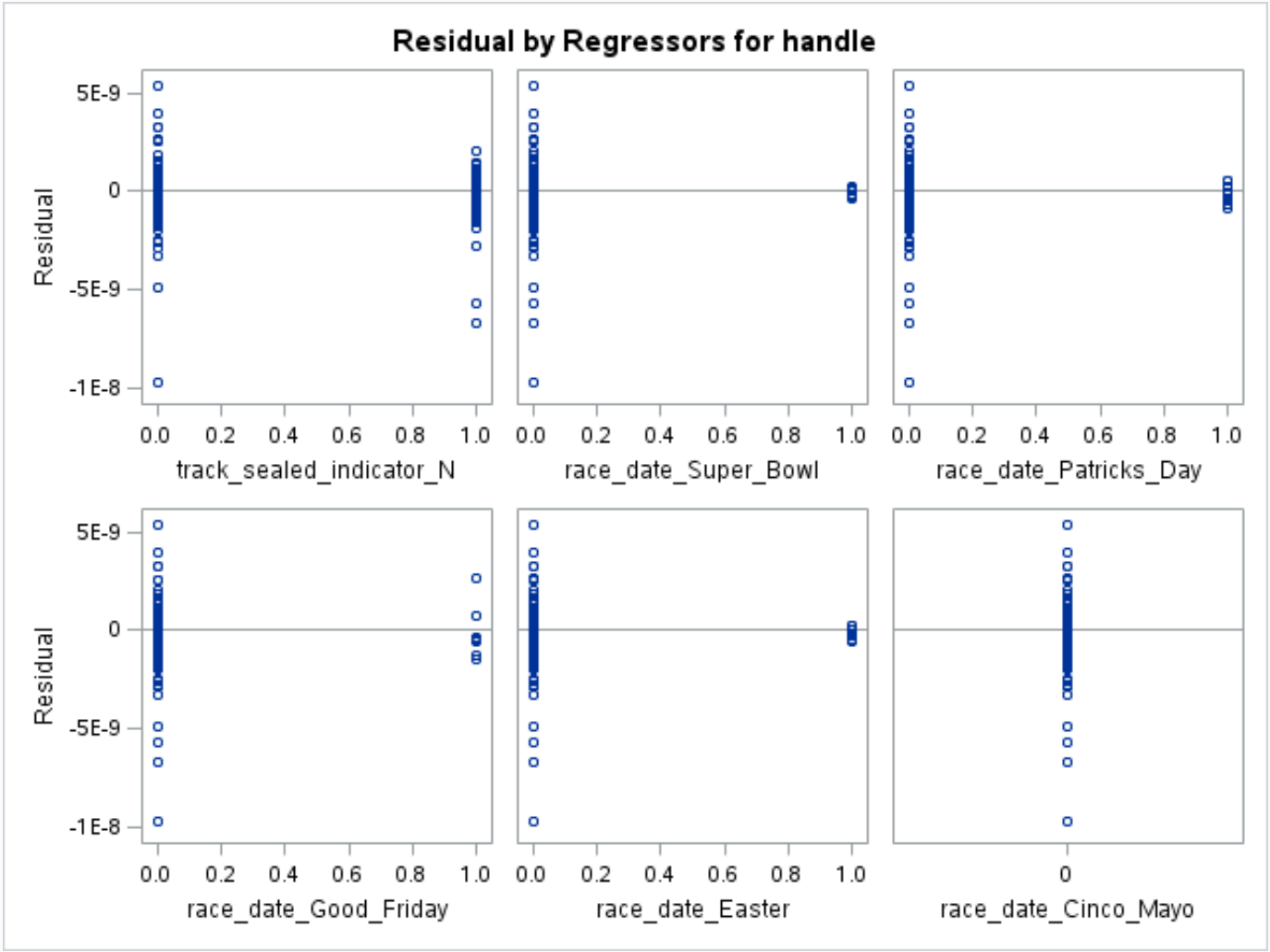
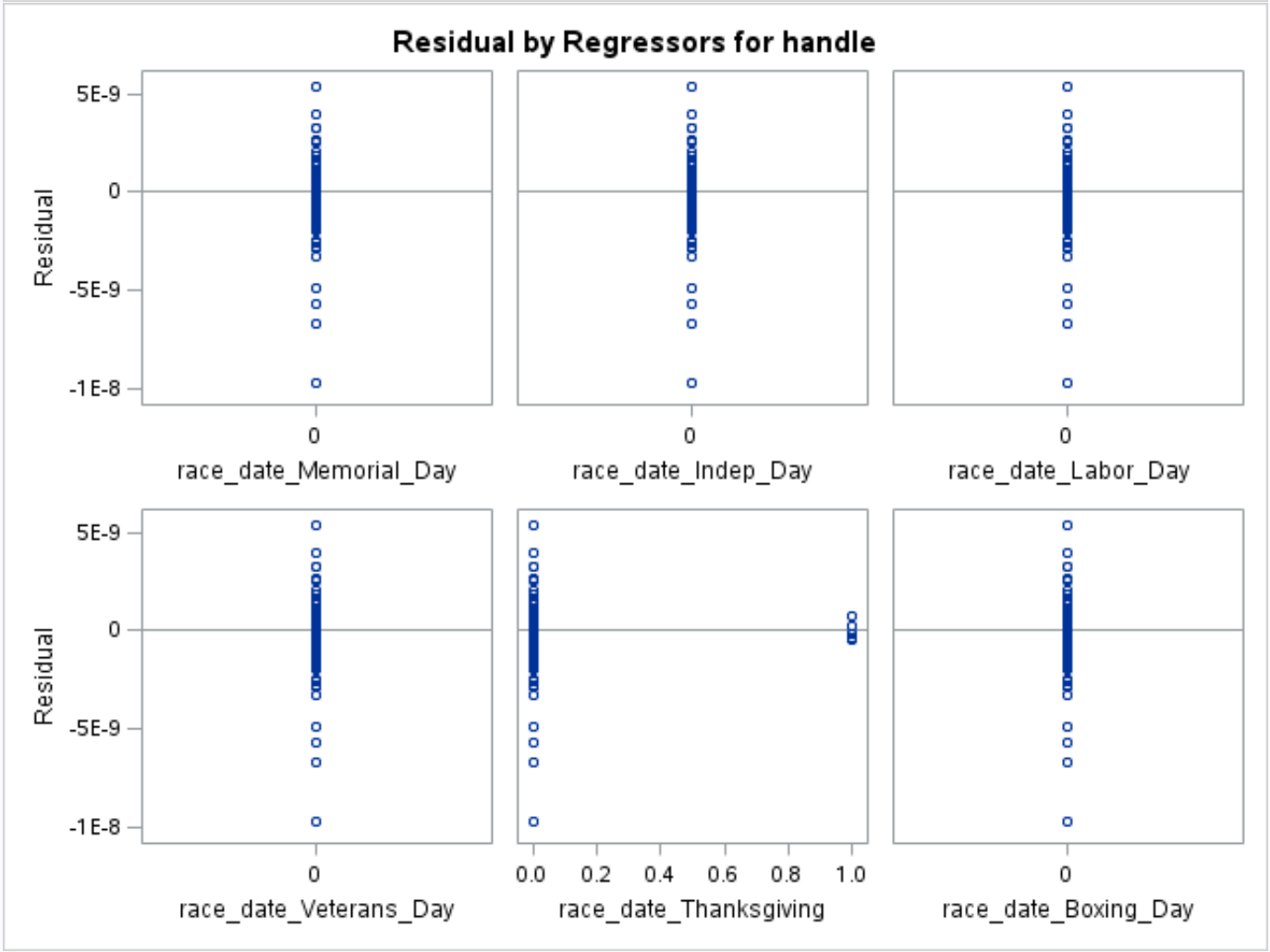
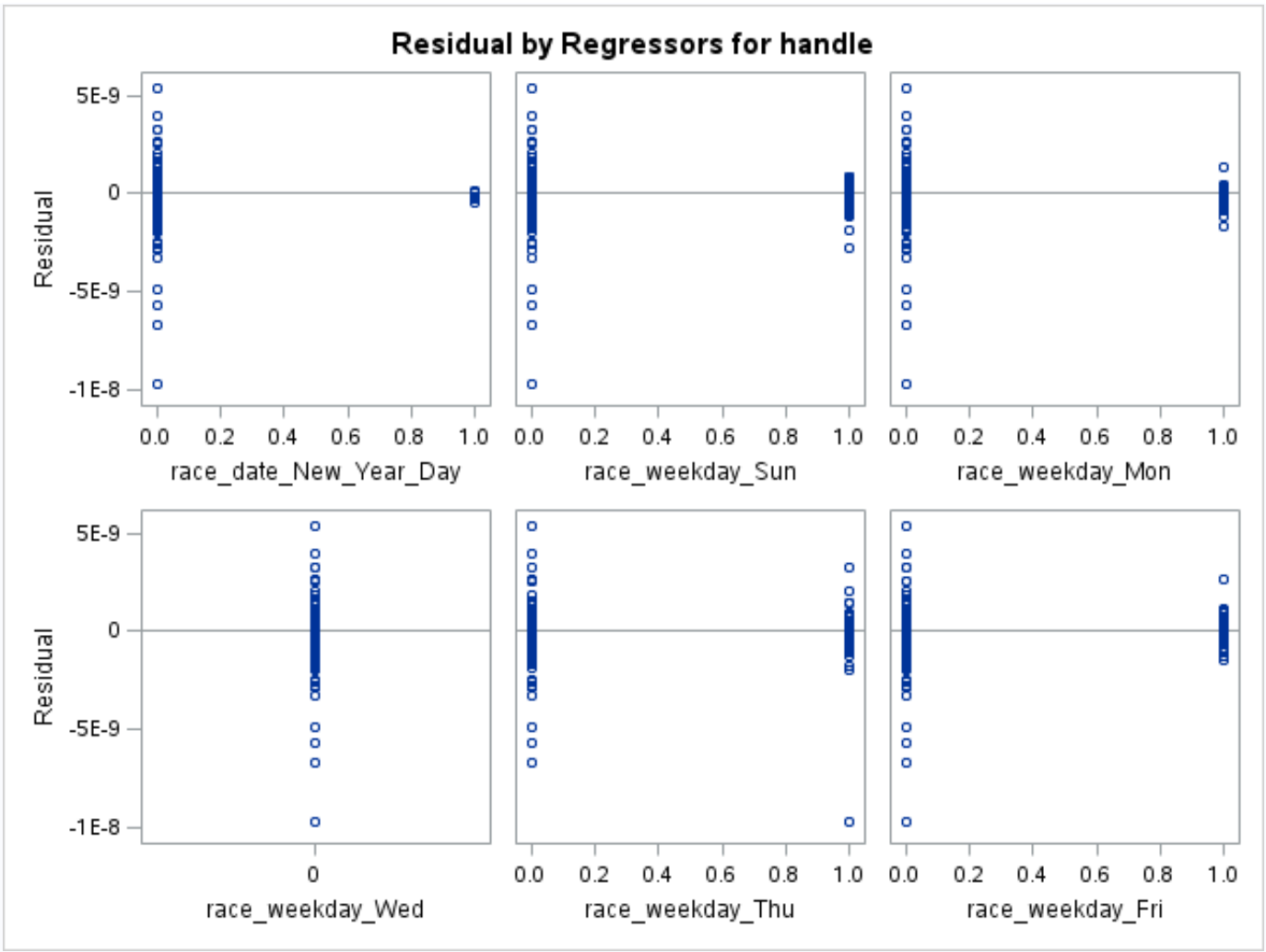
0
-5E-9
-1E-8
0
number_of_runners__3
0.0 0.2 0.4 0.6 0.8 1.0
number_of_runners__4
number_of_runners__5
number_of_runners__6
number_of_runners__7
number_of_runners__8


Residual by Regressors for handle
Residual
5E-9
0
-5E-9
-1E-8
0.0 0.2 0.4 0.6 0.8 1.0
number_of_runners__9
number_of_runners_10
number_of_runners_11
number_of_runners_12
abbreviated_name_RACE_HAS
track_sealed_indicator_Y


Residual by Regressors for handle
Residual
5E-9
0
-5E-9
-1E-8
0.0 0.2 0.4 0.6 0.8 1.0
track_sealed_indicator_N
race_date_Super_Bowl
race_date_Patricks_Day
race_date_Good_Friday
race_date_Easter
0
race_date_Cinco_Mayo


Residual by Regressors for handle
Residual
5E-9
0
-5E-9
-1E-8
0
race_date_Memorial_Day
race_date_Indep_Day
race_date_Labor_Day
race_date_Veterans_Day
0.0 0.2 0.4 0.6 0.8 1.0
race_date_Thanksgiving
race_date_Boxing_Day


Residual by Regressors for handle
Residual
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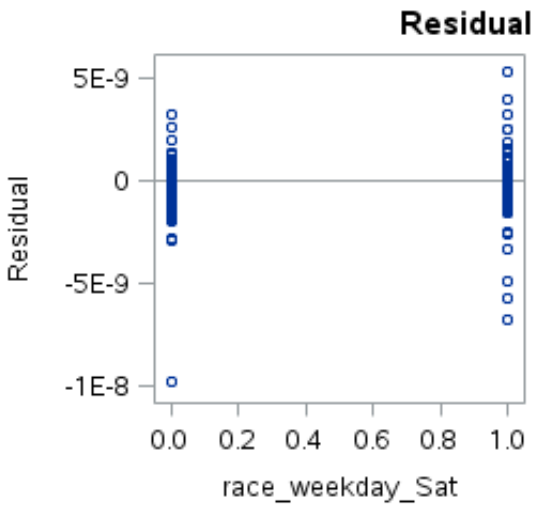
0
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_date_New_Year_Day
race_weekday_Sun
race_weekday_Mon
race_weekday_Wed
race_weekday_Thu
race_weekday_Fri


Residual by Regressors for handle
Residual
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0
-5E-9
-1E-8
0.0
0.2
0.4
0.6
0.8
1.0
race_weekday_Sat