```
*-------------------------------------------------------------*
User:                 ACER
Date:                 May 11, 2024
Time:                 18:45:35
*-------------------------------------------------------------*
* Training Output
*-------------------------------------------------------------*



Variable Summary

           Measurement    Frequency
 Role         Level          Count

INPUT      INTERVAL           21
TARGET     INTERVAL            1



Predicted and decision variables

Type               Variable                      Label

TARGET       percent_vaccinated
PREDICTED    P_percent_vaccinated    Predicted: percent_vacc
inated
RESIDUAL     R_percent_vaccinated    Residual: percent_vacci
nated


```

The DMREG Procedure

Model Information

Training Data Set	WORK.EM_DMREG.VIEW
DMDB Catalog	WORK.REG2_DMDB
Target Variable	percent_vaccinated
Target Measurement Level	Interval
Error	Normal
Link Function	Identity
Number of Model Parameters	22
Number of Observations	982

Stepwise Selection Procedure

Step 0: Intercept entered.

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0	.	.	.
Error	981	60726	61.902623		
Corrected Total	981	60726			

Model Fit Statistics

R-Square	0.0000	Adj R-Sq	0.0000
AIC	4052.3019	BIC	4052.5260
SBC	4057.1915	C(p)	1286.6257

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	51.8089	0.2511	206.35	<.0001

Step 1: Effect revenues_per_capita_PIT entered.

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	19939	19939	479.09	<.0001
Error	980	40787	41.619458		
Corrected Total	981	60726			

Model Fit Statistics

```
 96
 97 R-Square        0.3283     Adj R-Sq        0.3277
 98 AIC           3663.4515     BIC          3663.7797
 99 SBC           3673.2307     C(p)          544.3842
100
101
102                       Analysis of Maximum Likelihood Estimat
    es
103
104                                                          Standa
    rd
105 Parameter                              DF    Estimate       Err
    or    t Value    Pr > |t|
106
107 Intercept                               1     42.0964      0.48
    92      86.06      <.0001
108 revenues_per_capita_PIT                 1      0.0127    0.0005
    82      21.89      <.0001
109
110
111 Step 2: Effect forests_area entered.
112
113
114                                Analysis of Variance
115
116                                      Sum of
117 Source                  DF         Squares     Mean Square
     F Value    Pr > F
118
119 Model                    2           26168           13084
      370.65    <.0001
120 Error                  979           34559       35.299915
121 Corrected Total        981           60726
122
123
124               Model Fit Statistics
```

```
125
126 R-Square        0.4309     Adj R-Sq        0.4298
127 AIC          3502.7261     BIC          3503.1799
128 SBC          3517.3949     C(p)          313.9061
129
130
131                      Analysis of Maximum Likelihood Estimat
    es
132
133                                                        Standa
    rd
134 Parameter                            DF    Estimate       Err
    or    t Value    Pr > |t|
135
136 Intercept                             1     45.8121      0.53
    03      86.39      <.0001
137 forests_area                          1    -0.00298    0.0002
    24     -13.28      <.0001
138 revenues_per_capita_PIT               1      0.0109    0.0005
    54      19.68      <.0001
139
140
141 Step 3: Effect persons_per_appartment entered.
142
143
144                             Analysis of Variance
145
146                                     Sum of
147 Source                  DF         Squares     Mean Square
     F Value    Pr > F
148
149 Model                    3           29758     9919.454954
      313.27    <.0001
150 Error                  978           30968       31.664732
151 Corrected Total        981           60726
152
```

```
153
154                Model Fit Statistics
155
156 R-Square        0.4900     Adj R-Sq        0.4885
157 AIC           3397.0017     BIC          3397.7529
158 SBC           3416.5600     C(p)          181.8898
159
160
161                       Analysis of Maximum Likelihood Estimat
    es
162
163                                                          Standa
    rd
164 Parameter                              DF    Estimate       Err
    or    t Value    Pr > |t|
165
166 Intercept                               1     60.1759      1.43
    94      41.81      <.0001
167 forests_area                            1    -0.00290    0.0002
    13     -13.65      <.0001
168 persons_per_appartment                  1     -4.4346      0.41
    65     -10.65      <.0001
169 revenues_per_capita_PIT                 1     0.00933    0.0005
    45      17.14      <.0001
170
171
172 Step 4: Effect installations_network_gas entered.
173
174
175                               Analysis of Variance
176
177                                     Sum of
178 Source                   DF         Squares     Mean Square
     F Value    Pr > F
179
180 Model                     4           30696     7674.006315
```

```
      249.66    <.0001
181 Error                 977           30030       30.737408
182 Corrected Total       981           60726
183
184
185               Model Fit Statistics
186
187 R-Square        0.5055     Adj R-Sq        0.5035
188 AIC          3368.8090     BIC          3369.5392
189 SBC          3393.2570     C(p)          148.8915
190
191
192                       Analysis of Maximum Likelihood Estimat
    es
193
194                                                          Standa
    rd
195 Parameter                            DF    Estimate       Err
    or    t Value    Pr > |t|
196
197 Intercept                             1     59.7485      1.42
    02      42.07      <.0001
198 forests_area                         1    -0.00303    0.0002
    11     -14.37      <.0001
199 installations_network_gas            1     -0.0355     0.006
    42      -5.52      <.0001
200 persons_per_appartment               1     -4.3000      0.41
    10     -10.46      <.0001
201 revenues_per_capita_PIT              1      0.0108    0.0005
    98      18.04      <.0001
202
203
204 Step 5: Effect installations_central_heating entered.
205
206
207                              Analysis of Variance
```

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	31925	6385.069099	216.37	<.0001
Error	976	28801	29.509352		
Corrected Total	981	60726			

Model Fit Statistics

R-Square	0.5257	Adj R-Sq	0.5233
AIC	3329.7641	BIC	3330.7109
SBC	3359.1016	C(p)	105.0069

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	49.1034	2.1579	22.75	<.0001
forests_area	1	-0.00250	0.0002	-11.24	<.0001
installations_central_heating	1	0.1804	0.0280	6.45	<.0001
installations_network_gas	1	-0.0449	0.0064	-6.96	<.0001
persons_per_appartment	1	-5.1268	0.4226	-12.13	<.0001

```
234 revenues_per_capita_PIT              1     0.00925    0.0006
    34      14.59      <.0001
235
236
237 Step 6: Effect unemployment_rate_m entered.
238
239
240                              Analysis of Variance
241
242                                    Sum of
243 Source                  DF         Squares     Mean Square
     F Value    Pr > F
244
245 Model                    6           32411     5401.800107
      186.00    <.0001
246 Error                  975           28316       29.041715
247 Corrected Total        981           60726
248
249
250               Model Fit Statistics
251
252 R-Square        0.5337     Adj R-Sq        0.5308
253 AIC          3315.0710     BIC          3316.0690
254 SBC          3349.2981     C(p)           88.8872
255
256
257                      Analysis of Maximum Likelihood Estimat
    es
258
259                                                          Standa
    rd
260 Parameter                          DF    Estimate       Err
    or    t Value    Pr > |t|
261
262 Intercept                           1     52.5767      2.30
    32      22.83      <.0001
```

forests_area	1	-0.00241	0.0002	21	-10.90	<.0001
installations_central_heating	1	0.1780	0.02	77	6.42	<.0001
installations_network_gas	1	-0.0432	0.006	42	-6.73	<.0001
persons_per_appartment	1	-5.5500	0.43	18	-12.85	<.0001
revenues_per_capita_PIT	1	0.00835	0.0006	66	12.55	<.0001
unemployment_rate_m	1	-0.3062	0.07	49	-4.09	<.0001

Step 7: Effect persons_per_room entered.

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	32957	4708.159183	165.14	<.0001
Error	974	27769	28.510635		
Corrected Total	981	60726			

Model Fit Statistics

R-Square	0.5427	Adj R-Sq	0.5394
AIC	3297.9394	BIC	3299.0927
SBC	3337.0562	C(p)	70.4960

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	48.1972	2.4917	19.34	<.0001
forests_area	1	-0.00233	0.00020	-10.60	<.0001
installations_central_heating	1	0.1549	0.0280	5.53	<.0001
installations_network_gas	1	-0.0467	0.00641	-7.28	<.0001
persons_per_appartment	1	-7.5810	0.6311	-12.01	<.0001
persons_per_room	1	16.9550	3.8733	4.38	<.0001
revenues_per_capita_PIT	1	0.00958	0.00071	13.37	<.0001
unemployment_rate_m	1	-0.3801	0.07615	-4.99	<.0001

Step 8: Effect population_density entered.

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	33521	4190.113046		

```
      149.86    <.0001
315 Error                  973           27206       27.960502
316 Corrected Total        981           60726
317
318
319                Model Fit Statistics
320
321 R-Square        0.5520     Adj R-Sq        0.5483
322 AIC          3279.7971     BIC          3281.2020
323 SBC          3323.8034     C(p)           51.4524
324
325
326                        Analysis of Maximum Likelihood Estimat
    es
327
328                                                          Standa
    rd
329 Parameter                              DF    Estimate       Err
    or    t Value    Pr > |t|
330
331 Intercept                               1     46.1162      2.51
    07      18.37      <.0001
332 forests_area                           1    -0.00228    0.0002
    18     -10.42      <.0001
333 installations_central_heating          1      0.1891      0.02
    87       6.58      <.0001
334 installations_network_gas              1     -0.0384     0.006
    61      -5.81      <.0001
335 persons_per_appartment                 1     -8.9559      0.69
    60     -12.87      <.0001
336 persons_per_room                       1     21.7670      3.98
    26       5.47      <.0001
337 population_density                     1    -0.00258    0.0005
    75      -4.49      <.0001
338 revenues_per_capita_PIT                1      0.0101    0.0007
    20      14.07      <.0001
```

```
unemployment_rate_m                   1     -0.3827      0.07
54      -5.08      <.0001


Step 9: Effect entities_registered_per_10k_pers entered.


                              Analysis of Variance

                                     Sum of
Source                  DF         Squares     Mean Square
 F Value    Pr > F

Model                    9           33888     3765.297306
  136.36    <.0001
Error                  972           26839       27.611931
Corrected Total        981           60726


               Model Fit Statistics

R-Square        0.5580     Adj R-Sq        0.5539
AIC          3268.4682     BIC          3270.0729
SBC          3317.3642     C(p)           39.7626


                     Analysis of Maximum Likelihood Estimat
es

                                                          Standa
rd
Parameter                          DF    Estimate       Err
or    t Value    Pr > |t|

Intercept                           1     44.5086      2.53
37      17.57      <.0001
```

```
entities_registered_per_10k_pers     1     0.00202    0.0005
    54       3.64      0.0003
forests_area                         1    -0.00224    0.0002
    17     -10.34      <.0001
installations_central_heating        1      0.1615      0.02
    95       5.46      <.0001
installations_network_gas            1     -0.0413     0.006
    62      -6.25      <.0001
persons_per_appartment               1     -8.6610      0.69
    64     -12.44      <.0001
persons_per_room                     1     24.1500      4.01
    14       6.02      <.0001
population_density                   1    -0.00234    0.0005
    75      -4.06      <.0001
revenues_per_capita_PIT              1     0.00945    0.0007
    39      12.79      <.0001
unemployment_rate_m                  1     -0.3977      0.07
    50      -5.30      <.0001


Step 10: Effect appartments_per_1000_persons entered.


                              Analysis of Variance

                                        Sum of
Source                  DF         Squares     Mean Square
     F Value    Pr > F

Model                   10           34313     3431.299478
      126.14    <.0001
Error                  971           26413       27.202346
Corrected Total        981           60726


               Model Fit Statistics
```

R-Square	0.5650	Adj R-Sq	0.5606
AIC	3254.7817	BIC	3256.6949
SBC	3308.5672	C(p)	25.8875

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	74.0261	7.8771	9.40	<.0001
appartments_per_1000_persons	1	-0.0392	0.00990	-3.95	<.0001
entities_registered_per_10k_pers	1	0.00268	0.0005	4.67	<.0001
forests_area	1	-0.00215	0.0002	-9.93	<.0001
installations_central_heating	1	0.1441	0.0297	4.86	<.0001
installations_network_gas	1	-0.0398	0.00658	-6.05	<.0001
persons_per_appartment	1	-13.2337	1.3472	-9.82	<.0001
persons_per_room	1	22.0410	4.0171	5.49	<.0001
population_density	1	-0.00195	0.0005	-3.36	0.0008
revenues_per_capita_PIT	1	0.00896	0.0007	12.05	<.0001
unemployment_rate_m	1	-0.3997	0.0744	-5.37	<.0001

Step 11: Effect installations_toilet entered.

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	34453	3132.081301	115.63	<.0001
Error	970	26274	27.086164		
Corrected Total	981	60726			

Model Fit Statistics

R-Square	0.5673	Adj R-Sq	0.5624
AIC	3251.5667	BIC	3253.5993
SBC	3310.2418	C(p)	22.6657

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	69.1181	8.1515	8.48	<.0001
appartments_per_1000_persons	1	-0.0380	0.00989	-3.84	0.0001

444	entities_registered_per_10k_pers	1	0.00246	0.0005	82	4.22	<.0001
445	forests_area	1	-0.00205	0.0002	21	-9.31	<.0001
446	installations_central_heating	1	0.0922	0.03	74	2.47	0.0138
447	installations_network_gas	1	-0.0408	0.006	58	-6.21	<.0001
448	installations_toilet	1	0.0952	0.04	19	2.27	0.0233
449	persons_per_appartment	1	-13.4350	1.34	73	-9.97	<.0001
450	persons_per_room	1	23.1658	4.03	89	5.74	<.0001
451	population_density	1	-0.00198	0.0005	78	-3.42	0.0007
452	revenues_per_capita_PIT	1	0.00882	0.0007	45	11.84	<.0001
453	unemployment_rate_m	1	-0.3911	0.07	44	-5.26	<.0001
454							
455							
456	Step 12: Effect installations_bathroom entered.						
457							
458							
459	Analysis of Variance						
460							

461	Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
462	Model	12	34574	2881.154422	106.75	<.0001
463	Error	969	26153	26.989288		
464	Corrected Total	981	60726			
465						
466						
467						

Model Fit Statistics

R-Square	0.5693	Adj R-Sq	0.5640
AIC	3249.0353	BIC	3251.1910
SBC	3312.6000	C(p)	20.1509

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	64.9770	8.3688	7.76	<.0001
appartments_per_1000_persons	1	-0.0374	0.0098	-3.79	0.0002
entities_registered_per_10k_pers	1	0.00252	0.0005	4.33	<.0001
forests_area	1	-0.00202	0.0002	-9.18	<.0001
installations_bathroom	1	-0.2735	0.1292	-2.12	0.0345
installations_central_heating	1	0.1085	0.0381	2.85	0.0045
installations_network_gas	1	-0.0379	0.0072	-5.63	<.0001
installations_toilet	1	0.3887	0.1448	2.68	0.0074
persons_per_appartment	1	-13.1863	1.3500	-9.77	<.0001
persons_per_room	1	21.8108	4.0822	5.34	<.0001

```
491 population_density                    1    -0.00193    0.0005
    78      -3.35      0.0009
492 revenues_per_capita_PIT               1     0.00894    0.0007
    46      11.99      <.0001
493 unemployment_rate_m                   1     -0.3866      0.07
    43      -5.20      <.0001
494
495
496 Step 13: Effect installations_watersupply entered.
497
498
499                              Analysis of Variance
500
501                                      Sum of
502 Source                  DF          Squares     Mean Square
     F Value    Pr > F
503
504 Model                   13            34702     2669.369184
       99.29    <.0001
505 Error                  968            26025       26.884993
506 Corrected Total        981            60726
507
508
509               Model Fit Statistics
510
511 R-Square        0.5714     Adj R-Sq        0.5657
512 AIC          3246.2193     BIC          3248.5253
513 SBC          3314.6736     C(p)           17.3753
514
515
516                      Analysis of Maximum Likelihood Estimat
    es
517
518                                                        Standa
    rd
519 Parameter                        DF    Estimate       Err
```

```
    or    t Value    Pr > |t|
520
521 Intercept                              1     74.4056      9.40
    45       7.91      <.0001
522 appartments_per_1000_persons           1     -0.0352     0.009
    91      -3.55      0.0004
523 entities_registered_per_10k_pers       1     0.00238    0.0005
    84       4.08      <.0001
524 forests_area                           1    -0.00204    0.0002
    20      -9.24      <.0001
525 installations_bathroom                 1     -0.3063      0.12
    98      -2.36      0.0185
526 installations_central_heating          1      0.1050      0.03
    81       2.76      0.0059
527 installations_network_gas              1     -0.0371     0.006
    71      -5.53      <.0001
528 installations_toilet                   1      0.4881      0.15
    15       3.22      0.0013
529 installations_watersupply              1     -0.1646      0.07
    55      -2.18      0.0294
530 persons_per_appartment                 1    -12.9788      1.35
    07      -9.61      <.0001
531 persons_per_room                       1     20.9440      4.09
    36       5.12      <.0001
532 population_density                     1    -0.00193    0.0005
    76      -3.35      0.0009
533 revenues_per_capita_PIT                1     0.00883    0.0007
    46      11.84      <.0001
534 unemployment_rate_m                    1     -0.3994      0.07
    44      -5.37      <.0001
535
536
537 NOTE: No (additional) effects met the 0.05 significance leve
    l for entry into the model.
538
539
```

Summary of Stepwise Selection

Step	Effect Entered	DF	Number In	F Value	Pr > F
1	revenues_per_capita_PIT	1	1	479.09	<.0001
2	forests_area	1	2	176.44	<.0001
3	persons_per_appartment	1	3	113.39	<.0001
4	installations_network_gas	1	4	30.51	<.0001
5	installations_central_heating	1	5	41.66	<.0001
6	unemployment_rate_m	1	6	16.72	<.0001
7	persons_per_room	1	7	19.16	<.0001
8	population_density	1	8	20.16	<.0001
9	entities_registered_per_10k_pers	1	9	13.28	0.0003
10	appartments_per_1000_persons	1	10	15.64	<.0001
11	installations_toilet	1	11	5.16	0.0233
12	installations_bathroom	1	12	4.48	0.0345
13	installations_watersupply	1	13	4.76	0.0294

The selected model is the model trained in the last step (St

ep 13). It consists of the following effects:

Intercept appartments_per_1000_persons entities_registered_per_10k_pers forests_area installations_bathroom installations_central_heating installations_network_gas installations_toilet installations_watersupply persons_per_appartment
persons_per_room population_density revenues_per_capita_PIT unemployment_rate_m

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	34702	2669.369184	99.29	<.0001
Error	968	26025	26.884993		
Corrected Total	981	60726			

Model Fit Statistics

R-Square	0.5714	Adj R-Sq	0.5657
AIC	3246.2193	BIC	3248.5253
SBC	3314.6736	C(p)	17.3753

Analysis of Maximum Likelihood Estimates

Parameter	DF	Estimate	Standard Err

```
    or    t Value    Pr > |t|
587
588 Intercept                            1     74.4056      9.40
    45       7.91      <.0001
589 appartments_per_1000_persons         1     -0.0352     0.009
    91      -3.55      0.0004
590 entities_registered_per_10k_pers     1     0.00238    0.0005
    84       4.08      <.0001
591 forests_area                         1    -0.00204    0.0002
    20      -9.24      <.0001
592 installations_bathroom               1     -0.3063      0.12
    98      -2.36      0.0185
593 installations_central_heating        1      0.1050      0.03
    81       2.76      0.0059
594 installations_network_gas            1     -0.0371     0.006
    71      -5.53      <.0001
595 installations_toilet                 1      0.4881      0.15
    15       3.22      0.0013
596 installations_watersupply            1     -0.1646      0.07
    55      -2.18      0.0294
597 persons_per_appartment               1    -12.9788      1.35
    07      -9.61      <.0001
598 persons_per_room                     1     20.9440      4.09
    36       5.12      <.0001
599 population_density                   1    -0.00193    0.0005
    76      -3.35      0.0009
600 revenues_per_capita_PIT              1     0.00883    0.0007
    46      11.84      <.0001
601 unemployment_rate_m                  1     -0.3994      0.07
    44      -5.37      <.0001
602
603
604 *-------------------------------------------------------------
    -*
605 * Score Output
606 *-------------------------------------------------------------
```

```
    -*
607
608
609 *------------------------------------------------------------
    -*
610 * Report Output
611 *------------------------------------------------------------
    -*
612
613
614
615
616 Fit Statistics
617
618 Target=percent_vaccinated Target Label=' '
619
620    Fit
621 Statistics    Statistics Label                       Train
    Validation        Test
622
623  _AIC_        Akaike's Information Criterion     3303.48
          .            .
624  _ASE_        Average Squared Error                27.25
       29.19        31.01
625  _AVERR_      Average Error Function               27.25
       29.19        31.01
626  _DFE_        Degrees of Freedom for Error        977.00
          .            .
627  _DFM_        Model Degrees of Freedom             14.00
          .            .
628  _DFT_        Total Degrees of Freedom            991.00
          .            .
629  _DIV_        Divisor for ASE                      991.00
      743.00       743.00
630  _ERR_        Error Function                    27009.48
    21690.84     23040.31
```

```
631   _FPE_         Final Prediction Error                28.04
           .              .
632   _MAX_         Maximum Absolute Error                15.98
         19.19         33.96
633   _MSE_         Mean Square Error                     27.65
         29.19         31.01
634   _NOBS_        Sum of Frequencies                   991.00
        743.00        743.00
635   _NW_          Number of Estimate Weights            14.00
           .              .
636   _RASE_        Root Average Sum of Squares            5.22
          5.40          5.57
637   _RFPE_        Root Final Prediction Error            5.29
           .              .
638   _RMSE_        Root Mean Squared Error                5.26
          5.40          5.57
639   _SBC_         Schwarz's Bayesian Criterion        3372.06
           .              .
640   _SSE_         Sum of Squared Errors              27009.48
      21690.84      23040.31
641   _SUMW_        Sum of Case Weights Times Freq       991.00
        743.00        743.00
642
643
644
645
646  Assessment Score Rankings
647
648  Data Role=TRAIN Target Variable=percent_vaccinated Target La
     bel=' '
649
650             Number of       Mean        Mean
651  Depth    Observations     Target    Predicted
652
653     5           50         63.1520     64.7120
654    10           50         59.7860     59.8638
```

655	15	49	58.2143	58.1812
656	20	50	55.9120	56.9759
657	25	49	55.5531	56.0378
658	30	50	55.5300	55.0544
659	35	49	53.6122	54.2721
660	40	50	54.3120	53.5339
661	45	49	53.3204	52.8442
662	50	58	54.6190	52.1034
663	55	42	52.0119	51.5583
664	60	49	52.2469	51.0024
665	65	50	53.0700	50.2632
666	70	49	49.8082	49.3697
667	75	50	48.5940	48.5030
668	80	49	48.6551	47.5703
669	85	50	45.4660	46.3756
670	90	49	42.6633	44.9000
671	95	50	41.9820	42.9463
672	100	49	38.5388	39.7760
673				
674				

675 Data Role=VALIDATE Target Variable=percent_vaccinated Target Label=' '

676

677		Number of	Mean	Mean
678	Depth	Observations	Target	Predicted
679				
680	5	38	64.5000	64.0207
681	10	37	59.2432	59.5490
682	15	37	58.7838	58.2719
683	20	37	57.3135	56.8717
684	25	37	53.5243	55.8879
685	30	37	55.2676	55.2488
686	35	38	54.7947	54.5559
687	40	37	52.9919	53.8447
688	45	37	53.2378	53.0276
689	50	37	53.2784	52.2697

690	55	37	54.3649	51.6586
691	60	37	50.2730	50.8507
692	65	37	50.4838	50.1977
693	70	38	50.5632	49.4413
694	75	37	49.6514	48.6713
695	80	37	49.3595	47.7862
696	85	37	46.7405	46.7150
697	90	37	44.8189	45.3443
698	95	37	43.4432	43.5875
699	100	37	39.5243	40.1017

700

701

702

703

704 Assessment Score Distribution

705

706 Data Role=TRAIN Target Variable=percent_vaccinated Target La
bel=' '

707

708	Range for Predicted	Mean Target	Mean Predicted	Number of Observations	Model Score
710					
711	77.891 - 80.138	77.2000	80.1376	1	79.0145
712	75.645 - 77.891	65.6000	76.8348	2	76.7683
713	71.153 - 73.399	71.1500	72.4892	2	72.2758
714	68.907 - 71.153	70.9000	70.8677	1	70.0296
715	66.660 - 68.907	66.0600	67.6379	5	67.7834
716	64.414 - 66.660	66.7500	65.4871	6	65.5372

```
717  62.168 -  64.414    61.4286     63.2420           14
     63.2910
718  59.922 -  62.168    60.5548     60.9210           42
     61.0448
719  57.675 -  59.922    58.6722     58.6705           72
     58.7985
720  55.429 -  57.675    55.7212     56.4652          113
     56.5523
721  53.183 -  55.429    54.3971     54.2047          138
     54.3061
722  50.937 -  53.183    53.3022     52.0234          180
     52.0599
723  48.691 -  50.937    51.1575     49.8413          134
     49.8137
724  46.444 -  48.691    48.1039     47.6765          102
     47.5674
725  44.198 -  46.444    43.8194     45.5167           72
     45.3212
726  41.952 -  44.198    42.5278     43.2097           54
     43.0750
727  39.706 -  41.952    38.5484     41.0053           31
     40.8288
728  37.459 -  39.706    37.4944     38.9487           18
     38.5826
729  35.213 -  37.459    39.9250     35.9850            4
     36.3363
730
731
732  Data Role=VALIDATE Target Variable=percent_vaccinated Target
      Label=' '
733
734    Range for          Mean        Mean        Number of
      Model
735    Predicted         Target    Predicted    Observations
      Score
736
```

737	73.768 - 74.9140	76.060	73.0000	76.0596	1
738	66.894 - 68.0400	69.186	67.8000	68.4484	4
739	64.603 - 65.7487	66.894	64.5250	65.5834	8
740	62.312 - 63.4573	64.603	63.7417	63.3534	12
741	60.020 - 61.1660	62.312	62.3409	60.9748	22
742	57.729 - 58.8747	60.020	58.5855	58.7582	62
743	55.438 - 56.5834	57.729	55.7762	56.3528	84
744	53.146 - 54.2920	55.438	54.2448	54.3756	116
745	50.855 - 52.0007	53.146	52.9539	52.0530	115
746	48.564 - 49.7094	50.855	50.3298	49.7510	124
747	46.272 - 47.4181	48.564	48.5195	47.4155	82
748	43.981 - 45.1267	46.272	44.1288	45.1191	52
749	41.690 - 42.8354	43.981	42.7545	42.9755	33
750	39.398 - 40.5441	41.690	40.5053	40.8779	19
751	37.107 - 38.2528	39.398	37.7600	38.7923	5
752	34.816 - 35.9615	37.107	35.0000	36.0446	1
753	32.524 - 33.6701	34.816	37.8000	33.4161	1
754	30.233 - 31.3788	32.524	38.5000	31.0996	2