

Appendix – Logistic Regression Model Results

This appendix contains the raw results from logistic regression model, summary of statistical results, measures of model reliability and computation of the estimated number of OSTDS providing a range. Results are provided for each county in CountyID order as indicated in the Department of Revenue tax roll.

Results are taken directly from output of software written in R, an open source, software environment for statistical programming (www.R-project.org). Software was written by one of the authors of this report, Pamela Hall. Code is available upon request.

```
> Alachua.new[[1]] County 1
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR + perSptcLUT + yrblt + Nbldg, family =  
    binomial, data = Alachua.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.2599	-0.2841	-0.2200	0.1941	3.9423

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	38.531102	2.279635	16.902	< 2e-16	***
perSptcTA	1.301744	0.077475	16.802	< 2e-16	***
perSptcAcres	0.943963	0.070224	13.442	< 2e-16	***
perSptcNBR	6.530072	0.059284	110.149	< 2e-16	***
perSptcLUT	-1.055238	0.175220	-6.022	1.72e-09	***
yrblt	-0.021248	0.001153	-18.431	< 2e-16	***
Nbldg	-0.043066	0.012358	-3.485	0.000492	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 95325  on 71132  degrees of freedom  
Residual deviance: 27904  on 71126  degrees of freedom  
(28533 observations deleted due to missingness)  
AIC: 27918
```

```
Number of Fisher Scoring iterations: 6
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	41485	3296
1	1697	24655

```
$`Total N used in Model (NA excluded)`  
[1] 71133
```

```
$`Proportion Correct`  
[1] 0.9298075
```

```
$`Proportion Wrong`  
[1] 0.07019246
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.1179206
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
17831	1204	1470	5943
Septic	Sewer	<NA>	
29636	43582	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	17831	0	0	0	1184	334
1	0	1204	1470	5943	28452	43248

```
$`Total OSTDS prob >=0.50`  
[1] 30840
```

```
$`Total OSTDS prob >=0.25`  
[1] 30937
```

```
$`Total OSTDS prob>=0.75`  
[1] 30633
```

```
$`Sum OSTDS prob>=0.5`  
[1] 30725.94
```

```
> Baker.predfinal[[1]] County 2
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcLUT +  
     perSptcAcres + yrblt, family = binomial, data =  
     Baker.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.15615	-0.07567	-0.03146	0.04762	3.06482

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-103.26508	37.85725	-2.728	0.00638	**
perSptcTA	9.89251	0.66961	14.774	< 2e-16	***
perSptcLUT	3.76953	1.77156	2.128	0.03335	*
perSptcAcres	3.19369	0.85262	3.746	0.00018	***
yrblt	0.04786	0.01890	2.532	0.01133	*

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 3933.39 on 2843 degrees of freedom  
Residual deviance: 131.86 on 2839 degrees of freedom  
(9472 observations deleted due to missingness)  
AIC: 141.86
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1498	8
1	5	1333

```
$`Total N used in Model (NA excluded)`
```

```
[1] 2844
```

```
$`Proportion Correct`
```

```
[1] 0.995429
```

```
$`Proportion Wrong`
```

```
[1] 0.004571027
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.005965697
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
3880	4759	507	130
Septic	Sewer	<NA>	
1488	1552	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	3880	0	0	0	142	49
1	0	4759	507	130	1346	1503

```
$`Total OSTDS prob >=0.50`  
[1] 6247
```

```
$`Total OSTDS prob >=0.25`  
[1] 6257
```

```
$`Total OSTDS prob>=0.75`  
[1] 6240
```

```
$`Sum OSTDS prob>=0.5`  
[1] 6210.643
```

> Bay.predfinal[[1]] County 13

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR + Nbldg + totsqft, family = binomial, data =  
    Bay.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	-3.92393	-0.08251	-0.06656	0.01695	4.72056

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-6.845e+00	1.887e-01	-36.280	< 2e-16 ***
perSptcTA	5.191e+00	2.231e-01	23.270	< 2e-16 ***
perSptcAcres	4.013e+00	3.117e-01	12.876	< 2e-16 ***
perSptcNBR	7.662e+00	2.595e-01	29.522	< 2e-16 ***
Nbldg	7.875e-02	2.679e-02	2.939	0.003288 **
totsqft	-2.008e-05	5.943e-06	-3.379	0.000728 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 27096.0 on 20527 degrees of freedom
Residual deviance: 1842.6 on 20522 degrees of freedom
(96646 observations deleted due to missingness)
AIC: 1854.6

Number of Fisher Scoring iterations: 9

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	12791	248
1	102	7387

\$`Total N used in Model (NA excluded)`

[1] 20528

\$`Proportion Correct`

[1] 0.9829501

\$`Proportion Wrong`

```
[1] 0.01704988
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.03248199
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
28628	46521	21458	7653	12914	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	28628	0	0	806	750
1	0	46521	21458	6847	12164

```
$`Total OSTDS prob >=0.50`
```

```
[1] 54174
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 69680
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 52797
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 52061.3
```

```
> Bradford.predfinal[[1]] County 14
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR +  
    perSptcLUT, family = binomial, data = Bradford.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.75945	-0.14092	0.04276	0.15763	3.62719

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-8.3415	0.5192	-16.065	< 2e-16 ***
perSptcTA	6.4227	0.2805	22.901	< 2e-16 ***
perSptcAcres	0.9038	0.4045	2.234	0.0255 *
perSptcNBR	2.8204	0.3646	7.737	1.02e-14 ***
perSptcLUT	5.7437	0.7574	7.584	3.36e-14 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 4527.88 on 3312 degrees of freedom  
Residual deviance: 639.63 on 3308 degrees of freedom  
(11208 observations deleted due to missingness)  
AIC: 649.63
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1370	32
1	55	1856

```
$`Total N used in Model (NA excluded)`
```

```
[1] 3313
```

```
$`Proportion Correct`
```

```
[1] 0.9737398
```

```
$`Proportion Wrong`
```

```
[1] 0.02626019
```



```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.01694915
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
4264	6053	883	1896	1425	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	4264	0	0	226	27
1	0	6053	883	1670	1398

```
$`Total OSTDS prob >=0.50`  
[1] 7949
```

```
$`Total OSTDS prob >=0.25`  
[1] 8002
```

```
$`Total OSTDS prob>=0.75`  
[1] 7864
```

```
$`Sum OSTDS prob>=0.5`  
[1] 7746.227
```

```
> Brevard.predfinal[[1]] County 15
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR +  
    perSptcLUT + totsqft, family = binomial, data =  
    Brevard.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.7523	-0.2458	-0.1359	0.1774	3.9917

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-7.005e+00	8.850e-02	-79.149	< 2e-16 ***
perSptcTA	3.548e+00	6.908e-02	51.366	< 2e-16 ***
perSptcAcres	6.009e+00	1.531e-01	39.249	< 2e-16 ***
perSptcNBR	5.422e+00	5.383e-02	100.719	< 2e-16 ***
perSptcLUT	8.997e-01	1.516e-01	5.933	2.98e-09 ***
totsqft	-1.234e-05	1.789e-06	-6.897	5.29e-12 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 92790 on 71460 degrees of freedom  
Residual deviance: 30815 on 71455 degrees of freedom  
(222176 observations deleted due to missingness)  
AIC: 30827
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	42410	2516
1	3831	22704

```
$`Total N used in Model (NA excluded)`  
[1] 71461
```

```
$`Proportion Correct`  
[1] 0.9111823
```

```
$`Proportion Wrong`  
[1] 0.08881768
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.0997621
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
80882	120826	20097	85
Septic	Sewer	<NA>	
25435	46312	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	80882	0	0	0	1827	704
1	0	120826	20097	85	23608	45608

```
$`Total OSTDS prob >=0.50`  
[1] 146261
```

```
$`Total OSTDS prob >=0.25`  
[1] 149671
```

```
$`Total OSTDS prob>=0.75`  
[1] 129948
```

```
$`Sum OSTDS prob>=0.5`  
[1] 135811.9
```

```
> Broward.predfinal[[1]] County 16
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
     perSptcLUT + yrblt + Nbldg + totsqft + acres, family =  
     binomial, data = Broward.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.5361	-0.2055	-0.1535	-0.1115	3.8105

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	6.286e+01	2.139e+00	29.388	< 2e-16	***
perSptcTA	7.808e+00	9.619e-02	81.166	< 2e-16	***
perSptcAcres	1.051e+01	1.731e-01	60.720	< 2e-16	***
perSptcLUT	6.809e+00	6.513e-01	10.455	< 2e-16	***
yrblt	-3.428e-02	1.083e-03	-31.652	< 2e-16	***
Nbldg	-1.477e-01	4.127e-02	-3.577	0.000347	***
totsqft	-5.703e-06	1.579e-06	-3.612	0.000304	***
acres	2.160e-02	4.382e-03	4.930	8.22e-07	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 68483  on 204072  degrees of freedom  
Residual deviance: 34907  on 204065  degrees of freedom  
(287205 observations deleted due to missingness)  
AIC: 34923
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	195435	3885
1	485	4268

```
$`Total N used in Model (NA excluded)`  
[1] 204073
```

```
$`Proportion Correct`  
[1] 0.978586
```

```
$`Proportion Wrong`
```

```
[1] 0.02141391
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.4765117
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
63319	62061	146653	4808

Septic	Sewer	<NA>
8468	205969	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	63319	0	0	0	248	7033
1	0	62061	146653	4808	8220	198936

```
$`Total OSTDS prob >=0.50`
```

```
[1] 70529
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 72697
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 68756
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 66777.57
```

```
> Calhoun.predfinal[[1]] County 17
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcNBR + perSptcLUT,  
     family = binomial,  
     data = Calhoun.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-1.7761	-0.1635	-0.1635	-0.1526	2.9402

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-4.6999	0.4350	-10.804	< 2e-16 ***
perSptcTA	5.7277	0.8130	7.045	1.85e-12 ***
perSptcNBR	2.0077	0.5020	3.999	6.36e-05 ***
perSptcLUT	1.5403	0.6128	2.514	0.0119 *

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 624.40 on 604 degrees of freedom  
Residual deviance: 272.37 on 601 degrees of freedom  
(9714 observations deleted due to missingness)  
AIC: 280.37
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	432	16
1	45	112

```
$`Total N used in Model (NA excluded)`  
[1] 605
```

```
$`Proportion Correct`  
[1] 0.8991736
```

```
$`Proportion Wrong`  
[1] 0.1008264
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.125
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
4735	3096	1786	80

Septic	Sewer	<NA>
139	483	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	4735	0	0	0	81	40
1	0	3096	1786	80	58	443

```
$`Total OSTDS prob >=0.50`  
[1] 3235
```

```
$`Total OSTDS prob >=0.25`  
[1] 4298
```

```
$`Total OSTDS prob>=0.75`  
[1] 1107
```

```
$`Sum OSTDS prob>=0.5`  
[1] 2233.7
```

```
> Charlotte.predfinal[[1]] County 18
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + Nbldg + totsqft, family =  
binomial, data = Charlotte.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-5.32326	-0.47378	0.04368	0.71694	4.76756

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.101e+01	1.650e-01	-66.721	< 2e-16 ***
perSptcTA	7.451e+00	1.064e-01	70.020	< 2e-16 ***
perSptcAcres	5.343e+00	1.105e-01	48.355	< 2e-16 ***
perSptcNBR	5.079e+00	5.840e-02	86.972	< 2e-16 ***
perSptcLUT	1.966e+00	2.447e-01	8.034	9.43e-16 ***
Nbldg	4.740e-01	2.771e-02	17.105	< 2e-16 ***
totsqft	-6.588e-05	4.993e-06	-13.195	< 2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 83093 on 60041 degrees of freedom  
Residual deviance: 49207 on 60035 degrees of freedom  
(158359 observations deleted due to missingness)  
AIC: 49221
```

```
Number of Fisher Scoring iterations: 6
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	20997	4770
1	7562	26713

```
$`Total N used in Model (NA excluded)`  
[1] 60042
```

```
$`Proportion Correct`  
[1] 0.7946104
```



```
$`Proportion Wrong`  
[1] 0.2053896
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.1515103
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
115970	21325	8909	6931
Septic	Sewer	<NA>	
35243	30023	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	115970	0	0	0	3486	1008
1	0	21325	8909	6931	31757	29015

```
$`Total OSTDS prob >=0.50`  
[1] 56568
```

```
$`Total OSTDS prob >=0.25`  
[1] 60632
```

```
$`Total OSTDS prob>=0.75`  
[1] 52524
```

```
$`Sum OSTDS prob>=0.5`  
[1] 54337.67
```

```
> Citrus.predfinal[[1]] County 19
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcLUT + totsqft, family =  
binomial, data = Citrus.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.2964	0.1022	0.1033	0.1042	2.0017

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.610e+01	1.344e+00	-11.979	<2e-16 ***
perSptcLUT	2.136e+01	1.385e+00	15.425	<2e-16 ***
totsqft	2.487e-05	2.127e-05	1.169	0.242

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 1573.8 on 17569 degrees of freedom  
Residual deviance: 1366.5 on 17567 degrees of freedom  
(110268 observations deleted due to missingness)  
AIC: 1372.5
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	4	10
1	130	17426

```
$`Total N used in Model (NA excluded)`  
[1] 17570
```

```
$`Proportion Correct`  
[1] 0.9920319
```

```
$`Proportion Wrong`  
[1] 0.007968127
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.000573526
```

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
60943	49291	34	17436	134	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	60943	0	0	1172	23
1	0	49291	34	16264	111

\$`Total OSTDS prob >=0.50`

[1] 66727

\$`Total OSTDS prob >=0.25`

[1] 66729

\$`Total OSTDS prob>=0.75`

[1] 66721

\$`Sum OSTDS prob>=0.5`

[1] 66302.86

```
> Clay.predfinal[[1]] County 20
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcAcres + perSptcLUT + totsqft,  
     family = binomial,  
     data = Clay.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.2895	-0.2936	-0.2653	0.2369	7.1993

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.740e+00	7.598e-02	-49.22	<2e-16 ***
perSptcAcres	6.772e+00	6.427e-02	105.38	<2e-16 ***
perSptcLUT	3.474e+00	2.097e-01	16.57	<2e-16 ***
totsqft	-2.660e-04	1.429e-05	-18.62	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 45197  on 38626  degrees of freedom  
Residual deviance: 16727  on 38623  degrees of freedom  
(44877 observations deleted due to missingness)  
AIC: 16735
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	27272	1982
1	856	8517

```
$`Total N used in Model (NA excluded)`  
[1] 38627
```

```
$`Proportion Correct`  
[1] 0.926528
```

```
$`Proportion Wrong`  
[1] 0.07347192
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.1887799
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic
15947	12251	16659	10519
Sewer	<NA>		
28128	0		

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	15947	0	0	765	136
1	0	12251	16659	9754	27992

```
$`Total OSTDS prob >=0.50`  
[1] 22770
```

```
$`Total OSTDS prob >=0.25`  
[1] 24120
```

```
$`Total OSTDS prob>=0.75`  
[1] 21671
```

```
$`Sum OSTDS prob>=0.5`  
[1] 21746.63
```

```
> Collier.predfinal[[1]] County 21
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcLUT + totsqft,  
family = binomial,  
data = Collier.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.55303	-0.09823	0.03615	0.03686	4.50354

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-9.504e+00	7.126e-01	-13.336	< 2e-16 ***
perSptcTA	1.264e+01	4.855e-01	26.044	< 2e-16 ***
perSptcLUT	6.688e+00	1.080e+00	6.194	5.87e-10 ***
totsqft	-7.776e-06	2.353e-06	-3.304	0.000953 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 16287.70 on 11809 degrees of freedom  
Residual deviance: 395.96 on 11806 degrees of freedom  
(163965 observations deleted due to missingness)  
AIC: 403.96
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	5391	25
1	15	6379

```
$`Total N used in Model (NA excluded)`  
[1] 11810
```

```
$`Proportion Correct`  
[1] 0.996613
```

```
$`Proportion Wrong`  
[1] 0.00338696
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.00390381
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic
77060	75130	11774	6404
Sewer	<NA>		
5407	0		

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	77060	0	0	310	907
1	0	75130	11774	6094	4500

```
$`Total OSTDS prob >=0.50`  
[1] 81534
```

```
$`Total OSTDS prob >=0.25`  
[1] 86071
```

```
$`Total OSTDS prob>=0.75`  
[1] 81380
```

```
$`Sum OSTDS prob>=0.5`  
[1] 78596.41
```

```
> Columbia.predfinal[[1]] County 22
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + Nbldg + totsqft, family =  
binomial, data = Columbia.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.68071	-0.08132	0.09027	0.10072	3.27702

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-1.064e+01	7.370e-01	-14.431	< 2e-16	***
perSptcTA	1.011e+00	3.635e-01	2.781	0.005411	**
perSptcAcres	1.996e+00	3.313e-01	6.026	1.68e-09	***
perSptcNBR	8.399e+00	3.819e-01	21.995	< 2e-16	***
perSptcLUT	5.902e+00	9.539e-01	6.187	6.11e-10	***
Nbldg	7.594e-01	1.723e-01	4.408	1.04e-05	***
totsqft	-4.619e-05	1.247e-05	-3.704	0.000213	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 9299.3 on 8094 degrees of freedom  
Residual deviance: 950.2 on 8088 degrees of freedom  
(32313 observations deleted due to missingness)  
AIC: 964.2
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1999	68
1	116	5912

```
$`Total N used in Model (NA excluded)`  
[1] 8095
```

```
$`Proportion Correct`  
[1] 0.97727
```



```
$`Proportion Wrong`
```

```
[1] 0.02273008
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.01137124
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic
14404	15105	2796	5988
Sewer	<NA>		
2115	0		

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	14404	0	0	694	24
1	0	15105	2796	5294	2091

```
$`Total OSTDS prob >=0.50`
```

```
[1] 21093
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 21262
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 20881
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 20829.97
```

```
> MiamiDade.predfinal[[1]] (Dade, county 23)
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + Nbldg + totsqft, family =  
binomial, data = MiamiDade.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.2740	-0.3088	-0.2412	-0.1529	8.4904

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-6.828e+00	4.882e-02	-139.86	<2e-16	***
perSptcTA	6.930e+00	6.153e-02	112.63	<2e-16	***
perSptcAcres	7.044e+00	7.669e-02	91.84	<2e-16	***
perSptcNBR	2.324e+01	4.787e-01	48.54	<2e-16	***
perSptcLUT	7.303e+00	1.690e-01	43.22	<2e-16	***
Nbldg	1.973e-01	1.080e-02	18.28	<2e-16	***
totsqft	-4.564e-05	2.120e-06	-21.52	<2e-16	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 161747 on 300873 degrees of freedom  
Residual deviance: 101823 on 300867 degrees of freedom  
(250715 observations deleted due to missingness)  
AIC: 101837
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	275422	14882
1	2597	7973

```
$`Total N used in Model (NA excluded)`  
[1] 300874
```

```
$`Proportion Correct`  
[1] 0.941906
```

```
$`Proportion Wrong`  
[1] 0.05809409
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.6511485
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
50777	97817	98677	23073	281245	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	50777	0	0	1334	10127
1	0	97817	98677	21739	271118

```
$`Total OSTDS prob >=0.50`  
[1] 120890
```

```
$`Total OSTDS prob >=0.25`  
[1] 134473
```

```
$`Total OSTDS prob>=0.75`  
[1] 109824
```

```
$`Sum OSTDS prob>=0.5`  
[1] 111948.9
```

> DeSoto.predfinal[[1]] County 24

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcNBR + perSptcLUT, family =  
binomial, data = DeSoto.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	-2.46772	0.00591	0.00591	0.00591	1.29047

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-120.14	45.62	-2.633	0.00845	**
perSptcNBR	101.23	47.37	2.137	0.03260	*
perSptcLUT	29.87	10.81	2.764	0.00571	**

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 84.950 on 2622 degrees of freedom
Residual deviance: 20.298 on 2620 degrees of freedom
(16493 observations deleted due to missingness)
AIC: 26.298

Number of Fisher Scoring iterations: 12

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	5	4
1	1	2613

\$`Total N used in Model (NA excluded)`

[1] 2623

\$`Proportion Correct`

[1] 0.9980938

\$`Proportion Wrong`

[1] 0.001906214

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.001528468

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	NotEstimated
7739	7867	3	881
Septic	Sewer	<NA>	
2620	6	0	

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	7739	0	0	0	262	1
1	0	7867	3	881	2358	5

\$`Total OSTDS prob >=0.50`

[1] 10487

\$`Total OSTDS prob >=0.25`

[1] 10490

\$`Total OSTDS prob>=0.75`

[1] 10487

\$`Sum OSTDS prob>=0.5`

[1] 10485.28

> Dixie.predfinal[[1]] County 25

\$`Model Summary`

Call:

glm(formula = septic ~ acres, family = binomial, data =
Dixie.all)

Deviance Residuals:

Min	1Q	Median	3Q	Max
-3.73479	0.03032	0.03051	0.03083	0.38937

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	7.692978	1.096416	7.016	2.28e-12 ***
acres	-0.008232	0.005273	-1.561	0.118

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 16.946 on 1759 degrees of freedom
Residual deviance: 15.955 on 1758 degrees of freedom
(15831 observations deleted due to missingness)
AIC: 19.955

Number of Fisher Scoring iterations: 10

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
1	1	1759

\$`Total N used in Model (NA excluded)`
[1] 1760

\$`Proportion Correct`
[1] NA

\$`Proportion Wrong`
[1] NA

\$`Proportion of Known Septic Predicted to be Sewer`
[1] NA

\$`Assigned Wastewater Types`

NULL	EstSeptic	Septic	Sewer	<NA>
8246	7585	1759	1	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	Septic	Sewer
0	8246	0	313	1
1	0	7585	1446	0

\$`Total OSTDS prob >=0.50`
[1] 9344

\$`Total OSTDS prob >=0.25`
[1] 9344

\$`Total OSTDS prob>=0.75`
[1] 9344

\$`Sum OSTDS prob>=0.5`
[1] 9338.366

```
> Duval.predfinal[[1]] County 26
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + totsqft, family = binomial, data  
= Duval.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-5.45764	-0.14992	-0.14606	-0.05806	6.60329

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-6.837e+00	9.374e-02	-72.93	<2e-16 ***
perSptcTA	1.476e+01	6.957e-01	21.22	<2e-16 ***
perSptcAcres	1.398e+00	1.098e-01	12.74	<2e-16 ***
perSptcNBR	8.163e+00	6.137e-02	133.00	<2e-16 ***
perSptcLUT	4.116e+00	2.690e-01	15.30	<2e-16 ***
totsqft	-1.718e-05	1.250e-06	-13.75	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 100203 on 156710 degrees of freedom  
Residual deviance: 24745 on 156705 degrees of freedom  
(200655 observations deleted due to missingness)  
AIC: 24757
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	140068	2677
1	1353	12613

```
$`Total N used in Model (NA excluded)`  
[1] 156711
```

```
$`Proportion Correct`  
[1] 0.9742839
```

```
$`Proportion Wrong`
```



```
[1] 0.02571613
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.1750818
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
42027	52828	105800	15290	141421	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	42027	0	0	781	2158
1	0	52828	105800	14509	139263

```
$`Total OSTDS prob >=0.50`
```

```
[1] 68118
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 71170
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 65481
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 64958.7
```

```
> Escambia.predfinal[[1]] County 27
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcAcres + perSptcLUT + Nbldg +  
totsqft + acres, family = binomial, data = Escambia.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-6.9629	-0.6408	-0.5820	0.4374	8.4904

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.422e+00	5.063e-02	-67.60	<2e-16 ***
perSptcAcres	5.445e+00	5.670e-02	96.04	<2e-16 ***
perSptcLUT	3.672e+00	1.645e-01	22.32	<2e-16 ***
Nbldg	2.650e-01	1.691e-02	15.67	<2e-16 ***
totsqft	-2.008e-04	6.438e-06	-31.18	<2e-16 ***
acres	9.503e-02	3.803e-03	24.99	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 87331 on 75175 degrees of freedom
```

```
Residual deviance: 71143 on 75170 degrees of freedom
```

```
(74012 observations deleted due to missingness)
```

```
AIC: 71155
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	53083	13246
1	1977	6870

```
$`Total N used in Model (NA excluded)`
```

```
[1] 75176
```

```
$`Proportion Correct`
```

```
[1] 0.7975019
```

```
$`Proportion Wrong`
```

```
[1] 0.2024981
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.6584808
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
24178	20363	29412	20175	55060	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	24178	0	0	1025	952
1	0	20363	29412	19150	54108

```
$`Total OSTDS prob >=0.50`  
[1] 40538
```

```
$`Total OSTDS prob >=0.25`  
[1] 49974
```

```
$`Total OSTDS prob>=0.75`  
[1] 36970
```

```
$`Sum OSTDS prob>=0.5`  
[1] 37516.45
```

```
> Flagler.predfinal[[1]] County 28
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcAcres + perSptcNBR + yrblt +  
totsqft,  
family = binomial, data = Flagler.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.71105	0.03017	0.04325	0.05301	2.35013

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	1.221e+02	4.587e+01	2.661	0.00778	**
perSptcAcres	4.472e+00	2.372e+00	1.885	0.05941	.
perSptcNBR	9.869e+00	8.858e-01	11.142	< 2e-16	***
yrblt	-6.468e-02	2.320e-02	-2.788	0.00531	**
totsqft	-9.330e-06	3.187e-06	-2.927	0.00342	**

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 1263.34 on 2273 degrees of freedom  
Residual deviance: 152.78 on 2269 degrees of freedom  
(70686 observations deleted due to missingness)  
AIC: 162.78
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	178	19
1	3	2074

```
$`Total N used in Model (NA excluded)`  
[1] 2274
```

```
$`Proportion Correct`  
[1] 0.9903254
```

```
$`Proportion Wrong`  
[1] 0.009674582
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.009077879
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
30359	36269	1449	2168
Septic	Sewer	<NA>	
2442	273	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	30359	0	0	0	262	84
1	0	36269	1449	2168	2180	189

```
$`Total OSTDS prob >=0.50`  
[1] 38711
```

```
$`Total OSTDS prob >=0.25`  
[1] 38860
```

```
$`Total OSTDS prob>=0.75`  
[1] 38686
```

```
$`Sum OSTDS prob>=0.5`  
[1] 38477.76
```

> Franklin.predfinal[[1]] County 29

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcNBR + acres, family =  
binomial, data = Franklin.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	-7.3009635	0.0009856	0.0840014	0.1262940	2.4950358

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-11.135	1.539	-7.236	4.63e-13	***
perSptcNBR	13.835	2.090	6.620	3.60e-11	***
acres	7.325	1.319	5.554	2.79e-08	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 776.27 on 726 degrees of freedom
Residual deviance: 173.51 on 724 degrees of freedom
(15281 observations deleted due to missingness)
AIC: 179.51

Number of Fisher Scoring iterations: 25

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	158	8
1	6	555

\$`Total N used in Model (NA excluded)`

[1] 727

\$`Proportion Correct`

[1] 0.9807428

\$`Proportion Wrong`

[1] 0.01925722

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.01420959

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
9086	5321	874	563	164	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	9086	0	0	105	33
1	0	5321	874	458	131

\$`Total OSTDS prob >=0.50`

[1] 5884

\$`Total OSTDS prob >=0.25`

[1] 6530

\$`Total OSTDS prob>=0.75`

[1] 5111

\$`Sum OSTDS prob>=0.5`

[1] 5444.087

```
> Gadsden.predfinal[[1]] County 30
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT, family = binomial, data =  
Gadsden.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.274121	0.009572	0.024897	0.028624	3.206666

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-21.9031	2.2020	-9.947	< 2e-16 ***
perSptcTA	5.8632	0.5376	10.906	< 2e-16 ***
perSptcAcres	3.3050	1.1618	2.845	0.00444 **
perSptcNBR	6.3802	0.5706	11.182	< 2e-16 ***
perSptcLUT	17.0754	1.9602	8.711	< 2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 3377.34 on 4331 degrees of freedom  
Residual deviance: 214.46 on 4327 degrees of freedom  
(22418 observations deleted due to missingness)  
AIC: 224.46
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	557	15
1	14	3746

```
$`Total N used in Model (NA excluded)`
```

```
[1] 4332
```

```
$`Proportion Correct`
```

```
[1] 0.9933056
```

```
$`Proportion Wrong`
```

```
[1] 0.006694367
```



```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.003988301
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
8855	10920	446	2194
Septic	Sewer	<NA>	
3764	571	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	8855	0	0	0	434	40
1	0	10920	446	2194	3330	531

```
$`Total OSTDS prob >=0.50`  
[1] 14684
```

```
$`Total OSTDS prob >=0.25`  
[1] 14869
```

```
$`Total OSTDS prob>=0.75`  
[1] 14605
```

```
$`Sum OSTDS prob>=0.5`  
[1] 14572.51
```

```
> Gilchrist.predfinal[[1]] County 31
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcLUT, family = binomial, data  
= Gilchrist.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.36920	0.04561	0.04561	0.04561	2.10452

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-11.066	4.175	-2.650	0.00804 **
perSptcLUT	17.933	4.441	4.038	5.38e-05 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 56.699 on 1762 degrees of freedom  
Residual deviance: 33.582 on 1761 degrees of freedom  
(12928 observations deleted due to missingness)  
AIC: 37.582
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1	1
1	3	1758

```
$`Total N used in Model (NA excluded)`
```

```
[1] 1763
```

```
$`Proportion Correct`
```

```
[1] 0.9977311
```

```
$`Proportion Wrong`
```

```
[1] 0.00226886
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.0005685048
```

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
7172	5748	2	1765	4	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	7172	0	0	287	2
1	0	5748	2	1478	2

\$`Total OSTDS prob >=0.50`

[1] 7513

\$`Total OSTDS prob >=0.25`

[1] 7513

\$`Total OSTDS prob>=0.75`

[1] 7513

\$`Sum OSTDS prob>=0.5`

[1] 7505.266

> Glades.predfinal[[1]] County 32

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcAcres + Nbldg, family =  
binomial, data = Glades.all)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-3.59747	0.04188	0.04392	0.05566	1.23822

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-116.0723	47.4208	-2.448	0.014377 *
perSptcAcres	123.5037	48.1336	2.566	0.010292 *
Nbldg	-0.3930	0.1135	-3.461	0.000538 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 53.248 on 1145 degrees of freedom
Residual deviance: 39.832 on 1143 degrees of freedom
(10065 observations deleted due to missingness)
AIC: 45.832

Number of Fisher Scoring iterations: 9

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	0	1
1	4	1141

\$`Total N used in Model (NA excluded)`

[1] 1146

\$`Proportion Correct`

[1] 0.995637

\$`Proportion Wrong`

[1] 0.004363002

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.0008756567

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
5556	4506	3	1142	4	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	5556	0	0	106	0
1	0	4506	3	1036	4

\$`Total OSTDS prob >=0.50`

[1] 5648

\$`Total OSTDS prob >=0.25`

[1] 5648

\$`Total OSTDS prob>=0.75`

[1] 5647

\$`Sum OSTDS prob>=0.5`

[1] 5636.77

```
> Gulf.predfinal[[1]] County 33
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + yrblt, family = binomial, data =  
Gulf.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-2.8074	-0.2074	0.1633	0.2251	3.0699

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-79.222673	16.040279	-4.939	7.85e-07	***
perSptcTA	5.329750	0.890465	5.985	2.16e-09	***
perSptcAcres	7.099284	1.969780	3.604	0.000313	***
perSptcNBR	2.096220	0.900251	2.328	0.019886	*
perSptcLUT	5.021430	1.473145	3.409	0.000653	***
yrblt	0.033807	0.007996	4.228	2.36e-05	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 2525.90 on 1998 degrees of freedom  
Residual deviance: 572.75 on 1993 degrees of freedom  
(14701 observations deleted due to missingness)  
AIC: 584.75
```

```
Number of Fisher Scoring iterations: 6
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	605	33
1	48	1313

```
$`Total N used in Model (NA excluded)`  
[1] 1999
```

```
$`Proportion Correct`  
[1] 0.9594797
```

```
$`Proportion Wrong`
```

```
[1] 0.04052026
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.02451709
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
7262	6026	517	368
Septic	Sewer	<NA>	
1797	730	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	7262	0	0	0	399	61
1	0	6026	517	368	1398	669

```
$`Total OSTDS prob >=0.50`
```

```
[1] 7823
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 7933
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 7663
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 7438.991
```

```
> Hamilton.predfinal[[1]] County 35
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcLUT + acres, family =  
binomial,  
data = Hamilton.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-7.295694	-0.665409	0.000348	0.466103	2.993532

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.4869	0.5884	-9.325	< 2e-16 ***
perSptcLUT	6.4372	0.8783	7.329	2.32e-13 ***
acres	1.7312	0.1426	12.139	< 2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 1379.42 on 1116 degrees of freedom  
Residual deviance: 685.58 on 1114 degrees of freedom  
(13374 observations deleted due to missingness)  
AIC: 691.58
```

```
Number of Fisher Scoring iterations: 11
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	305	38
1	39	735

```
$`Total N used in Model (NA excluded)`  
[1] 1117
```

```
$`Proportion Correct`  
[1] 0.9310654
```

```
$`Proportion Wrong`  
[1] 0.06893465
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```



```
[1] 0.04915912
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
8683	3007	1681	776	344	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	8683	0	0	165	30
1	0	3007	1681	611	314

```
$`Total OSTDS prob >=0.50`
```

```
[1] 3783
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 4645
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 3001
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 3371.178
```

> Hardee.predfinal[[1]] County 35

\$`Model Summary`

Call:

glm(formula = septic ~ acres, family = binomial, data =
Hardee.all)

Deviance Residuals:

Min	1Q	Median	3Q	Max
-3.50994	0.06229	0.06280	0.06348	0.26296

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	6.247739	0.567695	11.005	<2e-16 ***
acres	-0.004468	0.002316	-1.929	0.0537 .

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 56.046 on 1624 degrees of freedom
Residual deviance: 53.831 on 1623 degrees of freedom
(12434 observations deleted due to missingness)
AIC: 57.831

Number of Fisher Scoring iterations: 9

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
1	4	1621

\$`Total N used in Model (NA excluded)`
[1] 1625

\$`Proportion Correct`
[1] NA

\$`Proportion Wrong`
[1] NA

\$`Proportion of Known Septic Predicted to be Sewer`
[1] NA

\$`Assigned Wastewater Types`

NULL	EstSeptic	Septic	Sewer	<NA>
4973	7461	1621	4	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	Septic	Sewer
0	4973	0	252	2
1	0	7461	1369	2

\$`Total OSTDS prob >=0.50`
[1] 9082

\$`Total OSTDS prob >=0.25`
[1] 9082

\$`Total OSTDS prob>=0.75`
[1] 9082

\$`Sum OSTDS prob>=0.5`
[1] 9064.894

```
> Hendry.predfinal[[1]] County 36
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcLUT + Nbldg +  
acres, family = binomial, data = Hendry.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.62729	0.02817	0.02822	0.02836	1.88280

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-32.595873	5.909611	-5.516	3.47e-08	***
perSptcTA	29.969290	5.192241	5.772	7.84e-09	***
perSptcLUT	10.611234	2.803891	3.784	0.000154	***
Nbldg	-0.151619	0.049518	-3.062	0.002199	**
acres	-0.004518	0.001845	-2.449	0.014329	*

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 151.259 on 2415 degrees of freedom  
Residual deviance: 48.797 on 2411 degrees of freedom  
(33118 observations deleted due to missingness)  
AIC: 58.797
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	8	1
1	4	2403

```
$`Total N used in Model (NA excluded)`  
[1] 2416
```

```
$`Proportion Correct`  
[1] 0.9979305
```

```
$`Proportion Wrong`  
[1] 0.002069536
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.0004159734
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
22171	10924	23	2404	12	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	22171	0	0	352	5
1	0	10924	23	2052	7

```
$`Total OSTDS prob >=0.50`  
[1] 13328
```

```
$`Total OSTDS prob >=0.25`  
[1] 13344
```

```
$`Total OSTDS prob>=0.75`  
[1] 13317
```

```
$`Sum OSTDS prob>=0.5`  
[1] 13295.72
```

```
> Hernando.predfinal[[1]] County 37
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + yrblt, family = binomial, data =  
Hernando.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.08404	-0.09662	-0.04668	0.04968	4.17350

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-184.55419	8.63647	-21.369	<2e-16 ***
perSptcTA	7.30694	0.73992	9.875	<2e-16 ***
perSptcAcres	2.15271	0.19877	10.830	<2e-16 ***
perSptcNBR	10.44182	0.17261	60.492	<2e-16 ***
perSptcLUT	14.16452	0.60452	23.431	<2e-16 ***
yrblt	0.08578	0.00430	19.947	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 51880.7 on 39950 degrees of freedom  
Residual deviance: 3964.9 on 39945 degrees of freedom  
(76044 observations deleted due to missingness)  
AIC: 3976.9
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	25605	303
1	242	13801

```
$`Total N used in Model (NA excluded)`
```

```
[1] 39951
```

```
$`Proportion Correct`
```

```
[1] 0.9863583
```

\$`Proportion Wrong`

[1] 0.01364171

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.02148327

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	NotEstimated
36245	33330	3153	1273
Septic	Sewer	<NA>	
15127	26867	0	

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	36245	0	0	0	951	654
1	0	33330	3153	1273	14176	26213

\$`Total OSTDS prob >=0.50`

[1] 48457

\$`Total OSTDS prob >=0.25`

[1] 49206

\$`Total OSTDS prob>=0.75`

[1] 47922

\$`Sum OSTDS prob>=0.5`

[1] 47801.41

> Highlands.predfinal[[1]] County 38

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcNBR + perSptcLUT, family =  
binomial,      data = Highlands.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	-3.15242	-0.03615	0.03658	0.03658	3.50752

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-8.3088	0.6096	-13.629	< 2e-16 ***
perSptcNBR	12.4835	0.4455	28.022	< 2e-16 ***
perSptcLUT	4.2676	0.8313	5.134	2.84e-07 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 16997.36 on 12777 degrees of freedom
Residual deviance: 380.61 on 12775 degrees of freedom
(85112 observations deleted due to missingness)
AIC: 386.61

Number of Fisher Scoring iterations: 9

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	4862	28
1	21	7867

\$`Total N used in Model (NA excluded)`

[1] 12778

\$`Proportion Correct`

[1] 0.9961653

\$`Proportion Wrong`

[1] 0.003834716

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.003546548

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
55181	29453	436	7923	4897	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	55181	0	0	659	2187
1	0	29453	436	7264	2710

\$`Total OSTDS prob >=0.50`

[1] 37376

\$`Total OSTDS prob >=0.25`

[1] 37528

\$`Total OSTDS prob>=0.75`

[1] 36825

\$`Sum OSTDS prob>=0.5`

[1] 36757.56

```
> Hillsborough.predfinal[[1]] County 39
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + Nbldg, family = binomial, data =  
Hillsborough.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.8887	-0.1659	-0.1420	-0.1329	3.0998

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-4.82398	0.02164	-222.914	< 2e-16	***
perSptcTA	2.67181	0.08189	32.627	< 2e-16	***
perSptcAcres	4.83756	0.04981	97.119	< 2e-16	***
perSptcNBR	6.68613	0.05939	112.580	< 2e-16	***
Nbldg	-0.03918	0.00775	-5.055	4.3e-07	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 141619 on 248446 degrees of freedom  
Residual deviance: 51923 on 248442 degrees of freedom  
(221238 observations deleted due to missingness)  
AIC: 51933
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	225651	6707
1	2281	13808

```
$`Total N used in Model (NA excluded)`
```

```
[1] 248447
```

```
$`Proportion Correct`
```

```
[1] 0.9638233
```

```
$`Proportion Wrong`
```

```
[1] 0.03617673
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.3269315
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
54489	47637	119112	20515	227932	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	54489	0	0	1155	6037
1	0	47637	119112	19360	221895

```
$`Total OSTDS prob >=0.50`  
[1] 68152
```

```
$`Total OSTDS prob >=0.25`  
[1] 73783
```

```
$`Total OSTDS prob>=0.75`  
[1] 62374
```

```
$`Sum OSTDS prob>=0.5`  
[1] 64523.91
```

```
> Holmes.predfinal[[1]]    County 40
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcLUT, family =  
binomial, data = Holmes.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-2.78207	0.07887	0.07887	0.20533	3.02618

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-9.5786	1.8274	-5.242	1.59e-07	***
perSptcTA	8.2957	0.9527	8.708	< 2e-16	***
perSptcLUT	7.6199	2.1034	3.623	0.000292	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 423.503 on 403 degrees of freedom  
Residual deviance: 61.971 on 401 degrees of freedom  
(14920 observations deleted due to missingness)  
AIC: 67.971
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	84	2
1	4	314

```
$`Total N used in Model (NA excluded)`  
[1] 404
```

```
$`Proportion Correct`  
[1] 0.9851485
```

```
$`Proportion Wrong`  
[1] 0.01485149
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.006329114
```

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
6895	7809	216	316	88	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	6895	0	0	74	11
1	0	7809	216	242	77

\$`Total OSTDS prob >=0.50`

[1] 8125

\$`Total OSTDS prob >=0.25`

[1] 8126

\$`Total OSTDS prob>=0.75`

[1] 8084

\$`Sum OSTDS prob>=0.5`

[1] 7973.983

```
> IndianRiver.predfinal[[1]] County 41
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcNBR + perSptcLUT  
+  
    acres, family = binomial, data = IndianRiver.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.1119	-0.2599	0.1222	0.1229	2.8209

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-4.511905	0.238316	-18.932	< 2e-16 ***
perSptcTA	2.014482	0.116959	17.224	< 2e-16 ***
perSptcNBR	6.509521	0.146404	44.463	< 2e-16 ***
perSptcLUT	1.498479	0.405596	3.695	0.000220 ***
acres	-0.005990	0.002372	-2.525	0.011567 *

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 22671.3 on 16643 degrees of freedom  
Residual deviance: 5370.3 on 16639 degrees of freedom  
(60942 observations deleted due to missingness)  
AIC: 5380.3
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	6824	779
1	207	8834

```
$`Total N used in Model (NA excluded)`
```

```
[1] 16644
```

```
$`Proportion Correct`
```

```
[1] 0.9407594
```

```
$`Proportion Wrong`
```

```
[1] 0.05924057
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.0810361
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
22876	34816	3250	9613	7031	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	22876	0	0	680	135
1	0	34816	3250	8933	6896

```
$`Total OSTDS prob >=0.50`  
[1] 44429
```

```
$`Total OSTDS prob >=0.25`  
[1] 45717
```

```
$`Total OSTDS prob>=0.75`  
[1] 44226
```

```
$`Sum OSTDS prob>=0.5`  
[1] 43407.39
```

> Jackson.predfinal[[1]] County 42

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcTA + perSptcNBR + perSptcLUT,
family = binomial, data = Jackson.all)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-3.77157	0.03944	0.04070	0.06318	2.50720

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-10.060	2.340	-4.299	1.71e-05	***
perSptcTA	5.142	1.052	4.887	1.02e-06	***
perSptcNBR	4.715	1.081	4.362	1.29e-05	***
perSptcLUT	7.473	2.646	2.824	0.00474	**

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 2728.90 on 4607 degrees of freedom
Residual deviance: 272.56 on 4604 degrees of freedom
(35309 observations deleted due to missingness)
AIC: 280.56

Number of Fisher Scoring iterations: 9

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	393	26
1	9	4180

\$`Total N used in Model (NA excluded)`
[1] 4608

\$`Proportion Correct`
[1] 0.9924045

\$`Proportion Wrong`
[1] 0.007595486

\$`Proportion of Known Septic Predicted to be Sewer`


```
[1] 0.006181645
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
19654	15315	340	4206	402	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	19654	0	0	1351	18
1	0	15315	340	2855	384

```
$`Total OSTDS prob >=0.50`
```

```
[1] 19521
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 19534
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 19521
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 19482.35
```

```
> Jefferson.predfinal[[1]] County 43
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcLUT, family = binomial, data  
= Jefferson.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.69379	0.02826	0.02826	0.02826	1.05626

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-10.255	2.058	-4.983	6.25e-07 ***
perSptcLUT	18.081	2.939	6.152	7.64e-10 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 82.605 on 2157 degrees of freedom  
Residual deviance: 31.687 on 2156 degrees of freedom  
(10527 observations deleted due to missingness)  
AIC: 35.687
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
1	6	2152

```
$`Total N used in Model (NA excluded)`
```

```
[1] 2158
```

```
$`Proportion Correct`
```

```
[1] NA
```

```
$`Proportion Wrong`
```

```
[1] NA
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] NA
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	Septic	Sewer	<NA>
5941	4572	2165	7	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	Septic	Sewer
0	5941	0	347	5
1	0	4572	1818	2

\$`Total OSTDS prob >=0.50`
[1] 6737

\$`Total OSTDS prob >=0.25`
[1] 6737

\$`Total OSTDS prob>=0.75`
[1] 6710

\$`Sum OSTDS prob>=0.5`
[1] 6723.533

> Lafayette.predfinal[[1]] County 44

\$`Model Summary`

Call:

```
glm(formula = septic ~ as.factor(LF.gov), family =  
binomial,  
     data = Lafayette.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	-7.585e-01	6.547e-06	6.547e-06	6.547e-06	1.665e+00

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	24.57	5412.00	0.005	0.996
as.factor(LF.gov)TRUE	-25.66	5412.00	-0.005	0.996

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 37.6738 on 589 degrees of freedom
Residual deviance: 4.4987 on 588 degrees of freedom
(6284 observations deleted due to missingness)
AIC: 8.4987

Number of Fisher Scoring iterations: 23

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	3	1
1	0	586

\$`Total N used in Model (NA excluded)`

[1] 590

\$`Proportion Correct`

[1] 0.998305

\$`Proportion Wrong`

[1] 0.001694915

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.001703578

\$`Assigned Wastewater Types`

ULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
3922	2352	10	587	3	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	3922	0	0	122	1
1	0	2352	10	465	2

\$`Total OSTDS prob >=0.50`
[1] 2939

\$`Total OSTDS prob >=0.25`
[1] 2939

\$`Total OSTDS prob>=0.75`
[1] 2939

\$`Sum OSTDS prob>=0.5`
[1] 2939

```
> Lake.predfinal[[1]] County 45
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + totsqft, family = binomial, data = Lake.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.71412	-0.10452	-0.05991	0.05890	3.75036

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-6.586e+00	1.049e-01	-62.784	< 2e-16 ***
perSptcTA	2.657e+00	1.102e-01	24.118	< 2e-16 ***
perSptcAcres	3.556e+00	1.446e-01	24.588	< 2e-16 ***
perSptcNBR	8.164e+00	1.151e-01	70.925	< 2e-16 ***
totsqft	-3.945e-05	5.155e-06	-7.654	1.95e-14 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 65820.6 on 48335 degrees of freedom  
Residual deviance: 5779.6 on 48331 degrees of freedom  
(174734 observations deleted due to missingness)  
AIC: 5789.6
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	27519	603
1	429	19785

```
$`Total N used in Model (NA excluded)`  
[1] 48336
```

```
$`Proportion Correct`  
[1] 0.9786495
```

```
$`Proportion Wrong`  
[1] 0.02135055
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.02957622
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
68913	86522	19299	20388	27948	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	68913	0	0	766	1952
1	0	86522	19299	19622	25996

```
$`Total OSTDS prob >=0.50`  
[1] 106910
```

```
$`Total OSTDS prob >=0.25`  
[1] 113983
```

```
$`Total OSTDS prob>=0.75`  
[1] 104455
```

```
$`Sum OSTDS prob>=0.5`  
[1] 104857.5
```

```
> Lee.predfinal[[1]] County 46
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR +  
Nbldg + acres, family = binomial, data = Lee.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.72900	0.03697	0.03697	0.03883	3.19404

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-5.425737	0.119334	-45.467	< 2e-16	***
perSptcTA	3.048697	0.146062	20.873	< 2e-16	***
perSptcAcres	0.716422	0.164371	4.359	1.31e-05	***
perSptcNBR	8.908843	0.144378	61.705	< 2e-16	***
Nbldg	0.098284	0.034083	2.884	0.003931	**
acres	-0.005241	0.001360	-3.852	0.000117	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 92862.4 on 87573 degrees of freedom  
Residual deviance: 4819.6 on 87568 degrees of freedom  
(351013 observations deleted due to missingness)  
AIC: 4831.6
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	19128	435
1	367	67644

```
$`Total N used in Model (NA excluded)`  
[1] 87574
```

```
$`Proportion Correct`  
[1] 0.990842
```

```
$`Proportion Wrong`
```



```
[1] 0.00915797
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.006389636
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
189596	155759	5658	68079	19495	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	189596	0	0	9305	704
1	0	155759	5658	58774	18791

```
$`Total OSTDS prob >=0.50`
```

```
[1] 223838
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 224152
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 222265
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 221997.2
```

> Leon.predfinal[[1]] County 47

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcTA + perSptcNBR + perSptcLUT  
+  
    totsqft, family = binomial, data = Leon.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	-3.38109	-0.08155	-0.08077	0.06667	3.76663

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-7.315e+00	1.819e-01	-40.220	< 2e-16	***
perSptcTA	2.672e+00	1.188e-01	22.499	< 2e-16	***
perSptcNBR	8.698e+00	1.300e-01	66.926	< 2e-16	***
perSptcLUT	5.789e+00	5.637e-01	10.271	< 2e-16	***
totsqft	-2.210e-05	5.982e-06	-3.694	0.000221	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 79550.3 on 68409 degrees of freedom
Residual deviance: 4763.8 on 68405 degrees of freedom
(38844 observations deleted due to missingness)
AIC: 4773.8

Number of Fisher Scoring iterations: 8

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	49844	342
1	221	18003

\$`Total N used in Model (NA excluded)`

[1] 68410

\$`Proportion Correct`

[1] 0.9917702

\$`Proportion Wrong`

[1] 0.008229791

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.01864268
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
14352	13784	10123	18387	50608	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	14352	0	0	1403	2586
1	0	13784	10123	16984	48022

```
$`Total OSTDS prob >=0.50`  
[1] 32171
```

```
$`Total OSTDS prob >=0.25`  
[1] 33912
```

```
$`Total OSTDS prob>=0.75`  
[1] 32025
```

```
$`Sum OSTDS prob>=0.5`  
[1] 32000.98
```

> Levy.predfinal[[1]] County 48

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcLUT + totsqft + acres, family
= binomial,      data = Levy.all)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-2.25524	0.01144	0.01194	0.01256	1.07921

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-3.443e+01	7.751e+00	-4.441	8.94e-06	***
perSptcLUT	4.423e+01	9.379e+00	4.716	2.40e-06	***
totsqft	-1.754e-04	5.914e-05	-2.965	0.00303	**
acres	1.617e-03	5.079e-03	0.318	0.75027	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 91.571 on 4551 degrees of freedom
Residual deviance: 35.378 on 4548 degrees of freedom
(44120 observations deleted due to missingness)
AIC: 43.378

Number of Fisher Scoring iterations: 12

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
1	6	4546

\$`Total N used in Model (NA excluded)`

[1] 4552

\$`Proportion Correct`

[1] NA

\$`Proportion Wrong`

[1] NA

\$`Proportion of Known Septic Predicted to be Sewer`

[1] NA

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
27779	16319	12	4556	6	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	27779	0	0	461	5
1	0	16319	12	4095	1

\$`Total OSTDS prob >=0.50`

[1] 20875

\$`Total OSTDS prob >=0.25`

[1] 20878

\$`Total OSTDS prob>=0.75`

[1] 20852

\$`Sum OSTDS prob>=0.5`

[1] 20857.83

> Liberty.predfinal[[1]] County 49

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcTA, family = binomial, data =
Liberty.all)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-2.7511	0.2144	0.2144	0.2144	0.2144

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-589.8	170115.8	-0.003	0.997
perSptcTA	607.4	174071.9	0.003	0.997

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 9.5909 on 44 degrees of freedom
Residual deviance: 9.5455 on 43 degrees of freedom
(6085 observations deleted due to missingness)
AIC: 13.545

Number of Fisher Scoring iterations: 16

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
1	1	44

\$`Total N used in Model (NA excluded)`
[1] 45

\$`Proportion Correct`
[1] NA

\$`Proportion Wrong`
[1] NA

\$`Proportion of Known Septic Predicted to be Sewer`
[1] NA

\$`Assigned Wastewater Types`

NULL	EstSeptic	Septic	Sewer	<NA>
3464	2621	44	1	0

```
$`Wastewater Types and Improvements`
```

```
VIMP NULL    EstSeptic Septic Sewer
  0 3464      0        2      1
  1    0    2621     42     0
```

```
$`Total OSTDS prob >=0.50`
[1] 2665
```

```
$`Total OSTDS prob >=0.25`
[1] 2665
```

```
$`Total OSTDS prob>=0.75`
[1] 2665
```

```
$`Sum OSTDS prob>=0.5`
[1] 2614.045
```

> Madison.predfinal[[1]] County 50

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcLUT + perSptcAcres, family =  
binomial, data = Madison.all)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-3.60407	0.05468	0.05500	0.06395	1.18399

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-275.970	151.449	-1.822	0.0684 .
perSptcLUT	25.655	4.581	5.601	2.14e-08 ***
perSptcAcres	257.742	151.557	1.701	0.0890 .

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 91.360 on 1760 degrees of freedom
Residual deviance: 68.427 on 1758 degrees of freedom
(14107 observations deleted due to missingness)
AIC: 74.427

Number of Fisher Scoring iterations: 9

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	0	1
1	7	1753

\$`Total N used in Model (NA excluded)`
[1] 1761

\$`Proportion Correct`
[1] 0.9954571

\$`Proportion Wrong`
[1] 0.004542873

\$`Proportion of Known Septic Predicted to be Sewer`
[1] 0.0005701254

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
7939	6161	4	1757	7	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	7939	0	0	283	3
1	0	6161	4	1474	4

\$`Total OSTDS prob >=0.50`

[1] 7918

\$`Total OSTDS prob >=0.25`

[1] 7922

\$`Total OSTDS prob>=0.75`

[1] 7910

\$`Sum OSTDS prob>=0.5`

[1] 7897.21

```
> Manatee.predfinal[[1]]    County 51
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ Nbldg + acres, family = binomial,  
data = Manatee.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.93503	0.02672	0.02676	0.02686	1.06519

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	8.2934358	0.7866370	10.543	< 2e-16	***
Nbldg	-0.3542010	0.0910521	-3.890	0.000100	***
acres	-0.0022015	0.0005861	-3.756	0.000172	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 50.471  on 4967  degrees of freedom  
Residual deviance: 38.524  on 4965  degrees of freedom  
(136125 observations deleted due to missingness)  
AIC: 44.524
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
1	3	4965

```
$`Total N used in Model (NA excluded)`  
[1] 4968
```

```
$`Proportion Correct`  
[1] NA
```

```
$`Proportion Wrong`  
[1] NA
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] NA
```

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
29854	106247	24	4965	3	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	29854	0	0	306	0
1	0	106247	24	4659	3

\$`Total OSTDS prob >=0.50`

[1] 111212

\$`Total OSTDS prob >=0.25`

[1] 111221

\$`Total OSTDS prob>=0.75`

[1] 111206

\$`Sum OSTDS prob>=0.5`

[1] 111154.8

```
> Marion.predfinal[[1]] County 52
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT + totsqft, family = binomial,  
data = Marion.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.57283	0.05236	0.05883	0.06889	4.40712

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.622e+01	2.000e+00	-13.107	< 2e-16 ***
perSptcTA	7.803e+00	1.982e+00	3.936	8.27e-05 ***
perSptcAcres	3.755e+00	2.563e-01	14.649	< 2e-16 ***
perSptcNBR	1.040e+01	2.286e-01	45.474	< 2e-16 ***
perSptcLUT	1.189e+01	5.614e-01	21.182	< 2e-16 ***
totsqft	-3.658e-06	1.116e-06	-3.279	0.00104 **

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 19488.5 on 40179 degrees of freedom  
Residual deviance: 2145.5 on 40174 degrees of freedom  
(226853 observations deleted due to missingness)  
AIC: 2157.5
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	2442	122
1	200	37416

```
$`Total N used in Model (NA excluded)`  
[1] 40180
```

```
$`Proportion Correct`  
[1] 0.991986
```

```
$`Proportion Wrong`
```

```
[1] 0.008013937
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.00325004
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
114507	108783	2990	37823	2930	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	114507	0	0	2579	940
1	0	108783	2990	35244	1990

```
$`Total OSTDS prob >=0.50`
```

```
[1] 146606
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 147541
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 140827
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 143368.3
```

```
> Martin.predfinal[[1]] County 53
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR +  
totsqft + acres, family = binomial, data = Martin.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.22602	-0.14091	0.04718	0.06944	3.02830

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.573e+00	3.609e-01	-15.441	< 2e-16 ***
perSptcTA	1.082e+00	3.961e-01	2.731	0.00632 **
perSptcAcres	1.725e+00	6.974e-01	2.473	0.01339 *
perSptcNBR	9.887e+00	3.585e-01	27.578	< 2e-16 ***
totsqft	-2.672e-05	8.891e-06	-3.005	0.00266 **
acres	-6.831e-03	1.334e-03	-5.123	3.01e-07 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 9932.71 on 7164 degrees of freedom  
Residual deviance: 879.54 on 7159 degrees of freedom  
(70456 observations deleted due to missingness)  
AIC: 891.54
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	3529	107
1	41	3488

```
$`Total N used in Model (NA excluded)`  
[1] 7165
```

```
$`Proportion Correct`  
[1] 0.979344
```

```
$`Proportion Wrong`
```

```
[1] 0.02065597
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.02976356
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
6470	60809	3177	3595	3570	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	6470	0	0	61	52
1	0	60809	3177	3534	3518

```
$`Total OSTDS prob >=0.50`
```

```
[1] 64404
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 65413
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 35748
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 53359.34
```

```
> Monroe.predfinal[[1]] County 54
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcNBR + totsqft,  
family = binomial,  
data = Monroe.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.15980	0.07942	0.08299	0.08894	4.65839

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.558e+01	1.410e+00	-11.049	< 2e-16 ***
perSptcTA	3.947e+00	7.305e-01	5.404	6.53e-08 ***
perSptcNBR	1.743e+01	1.534e+00	11.368	< 2e-16 ***
totsqft	-4.211e-05	9.163e-06	-4.595	4.32e-06 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 6238.54 on 7377 degrees of freedom  
Residual deviance: 560.74 on 7374 degrees of freedom  
(82796 observations deleted due to missingness)  
AIC: 568.74
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1041	7
1	66	6264

```
$`Total N used in Model (NA excluded)`  
[1] 7378
```

```
$`Proportion Correct`  
[1] 0.9901057
```

```
$`Proportion Wrong`  
[1] 0.00989428
```



```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.001116249
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
41100	40706	990	6271	1107	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	41100	0	0	929	39
1	0	40706	990	5342	1068

```
$`Total OSTDS prob >=0.50`  
[1] 46977
```

```
$`Total OSTDS prob >=0.25`  
[1] 47446
```

```
$`Total OSTDS prob>=0.75`  
[1] 46518
```

```
$`Sum OSTDS prob>=0.5`  
[1] 45451.73
```

```
> Nassau.predfinal[[1]] County 55
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcNBR + totsqft,  
family = binomial,  
data = Nassau.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.23849	-0.08842	0.07642	0.09710	3.19023

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.782e+00	2.996e-01	-19.301	< 2e-16 ***
perSptcTA	1.229e+00	5.349e-01	2.297	0.0216 *
perSptcNBR	1.044e+01	2.858e-01	36.530	< 2e-16 ***
totsqft	-2.600e-05	5.587e-06	-4.654	3.26e-06 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 15715.95 on 11661 degrees of freedom  
Residual deviance: 813.61 on 11658 degrees of freedom  
(35879 observations deleted due to missingness)  
AIC: 821.61
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	4631	43
1	57	6931

```
$`Total N used in Model (NA excluded)`  
[1] 11662
```

```
$`Proportion Correct`  
[1] 0.9914251
```

```
$`Proportion Wrong`  
[1] 0.008574859
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.006165759
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
13560	20347	1972	6974	4688	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	13560	0	0	551	209
1	0	20347	1972	6423	4479

```
$`Total OSTDS prob >=0.50`  
[1] 27321
```

```
$`Total OSTDS prob >=0.25`  
[1] 27330
```

```
$`Total OSTDS prob>=0.75`  
[1] 26581
```

```
$`Sum OSTDS prob>=0.5`  
[1] 26346.46
```

```
> Okaloosa.predfinal[[1]] County 56
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR +  
perSptcLUT, family = binomial, data = Okaloosa.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.308929	0.004458	0.005900	0.007732	3.247915

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-7.247	2.944	-2.462	0.0138	*
perSptcTA	9.258	0.989	9.361	< 2e-16	***
perSptcAcres	-6.407	2.849	-2.248	0.0246	*
perSptcNBR	8.305	1.198	6.934	4.08e-12	***
perSptcLUT	7.006	2.869	2.442	0.0146	*

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 6220.603 on 8875 degrees of freedom  
Residual deviance: 83.853 on 8871 degrees of freedom  
(91851 observations deleted due to missingness)  
AIC: 93.853
```

```
Number of Fisher Scoring iterations: 12
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	990	5
1	3	7878

```
$`Total N used in Model (NA excluded)`  
[1] 8876
```

```
$`Proportion Correct`  
[1] 0.9990987
```

```
$`Proportion Wrong`
```

```
[1] 0.0009013069
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.0006342763
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
15987	70101	5713	7931	995	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	15987	0	0	621	94
1	0	70101	5713	7310	901

```
$`Total OSTDS prob >=0.50`
```

```
[1] 78032
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 78513
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 77677
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 77444.7
```

```
> Okeechobee.predfinal[[1]]
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcLUT + acres, family =  
binomial, data = Okeechobee.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-2.6100	0.3214	0.3239	0.3243	1.2435

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.686872	0.276860	-13.317	<2e-16 ***
perSptcLUT	6.989409	0.353407	19.777	<2e-16 ***
acres	0.003916	0.004427	0.885	0.376

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 1915.7 on 2801 degrees of freedom  
Residual deviance: 1498.1 on 2799 degrees of freedom  
(30283 observations deleted due to missingness)  
AIC: 1504.1
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	46	47
1	256	2453

```
$`Total N used in Model (NA excluded)`
```

```
[1] 2802
```

```
$`Proportion Correct`
```

```
[1] 0.891863
```

```
$`Proportion Wrong`
```

```
[1] 0.1081370
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.0188
```

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
16380	13195	708	2500	302	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	16380	0	0	227	172
1	0	13195	708	2273	130

\$`Total OSTDS prob >=0.50`

[1] 15695

\$`Total OSTDS prob >=0.25`

[1] 16403

\$`Total OSTDS prob>=0.75`

[1] 15189

\$`Sum OSTDS prob>=0.5`

[1] 14870.42

```
> Orange.predfinal[[1]]    County 58
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR,  
     family = binomial, data = Orange.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.57386	-0.11476	-0.09021	0.06318	3.39823

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.94803	0.06322	-94.08	<2e-16 ***
perSptcTA	5.70895	0.06060	94.21	<2e-16 ***
perSptcAcres	2.47687	0.12559	19.72	<2e-16 ***
perSptcNBR	5.07293	0.08629	58.79	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 89495  on 75878  degrees of freedom  
Residual deviance: 12321  on 75875  degrees of freedom  
(291630 observations deleted due to missingness)  
AIC: 12329
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	53935	1052
1	955	19937

```
$`Total N used in Model (NA excluded)`  
[1] 75879
```

```
$`Proportion Correct`  
[1] 0.97355
```

```
$`Proportion Wrong`  
[1] 0.02645001
```



```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.05012149
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
52733	196505	42392	20989	54890	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	52733	0	0	758	1802
1	0	196505	42392	20231	53088

```
$`Total OSTDS prob >=0.50`  
[1] 217494
```

```
$`Total OSTDS prob >=0.25`  
[1] 233495
```

```
$`Total OSTDS prob>=0.75`  
[1] 205962
```

```
$`Sum OSTDS prob>=0.5`  
[1] 201703.1
```

```
> Osceola.predfinal[[1]] County 59
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR + perSptcLUT, family = binomial, data =  
Osceola.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.32819	-0.05708	-0.04964	0.08149	3.93552

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.7868	0.2677	-21.617	< 2e-16 ***
perSptcTA	2.1856	0.2188	9.989	< 2e-16 ***
perSptcAcres	1.7493	0.2812	6.221	4.94e-10 ***
perSptcNBR	8.9464	0.2684	33.332	< 2e-16 ***
perSptcLUT	-3.0462	0.5850	-5.207	1.92e-07 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 25506.2 on 19286 degrees of freedom  
Residual deviance: 1233.0 on 19282 degrees of freedom  
(129999 observations deleted due to missingness)  
AIC: 1243.0
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	11951	53
1	116	7167

```
$`Total N used in Model (NA excluded)`  
[1] 19287
```

```
$`Proportion Correct`  
[1] 0.9912376
```

```
$`Proportion Wrong`  
[1] 0.008762379
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.00734072
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
36240	23419	70274	7286	12067	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	36240	0	0	483	287
1	0	23419	70274	6803	11780

```
$`Total OSTDS prob >=0.50`  
[1] 30705
```

```
$`Total OSTDS prob >=0.25`  
[1] 43545
```

```
$`Total OSTDS prob>=0.75`  
[1] 30138
```

```
$`Sum OSTDS prob>=0.5`  
[1] 30136.1
```

```
> PalmBeach.predfinal[[1]] County 60
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR +  
perSptcLUT, family = binomial, data = PalmBeach.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.23483	-0.09828	-0.09445	-0.08032	3.38353

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.78549	0.03506	-165.036	<2e-16 ***
perSptcTA	0.99659	0.11912	8.366	<2e-16 ***
perSptcAcres	2.52158	0.11229	22.455	<2e-16 ***
perSptcNBR	9.50450	0.11047	86.037	<2e-16 ***
perSptcLUT	4.06416	0.25398	16.002	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 111574 on 263973 degrees of freedom  
Residual deviance: 19275 on 263969 degrees of freedom  
(172989 observations deleted due to missingness)  
AIC: 19285
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	249042	2048
1	566	12318

```
$`Total N used in Model (NA excluded)`
```

```
[1] 263974
```

```
$`Proportion Correct`
```

```
[1] 0.9900975
```

```
$`Proportion Wrong`
```

```
[1] 0.00990249
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.1425588
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
41410	49149	82000	14400	250004	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	41410	0	0	689	2428
1	0	49149	82000	13711	247576

```
$`Total OSTDS prob >=0.50`  
[1] 63549
```

```
$`Total OSTDS prob >=0.25`  
[1] 65838
```

```
$`Total OSTDS prob>=0.75`  
[1] 62367
```

```
$`Sum OSTDS prob>=0.5`  
[1] 62555.7
```

```
> Pasco.predfinal[[1]] County 61
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcLUT,  
     family = binomial, data = Pasco.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.71443	0.06272	0.07976	0.13008	3.23093

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-22.3598	1.1918	-18.762	< 2e-16 ***
perSptcTA	8.9827	0.2286	39.289	< 2e-16 ***
perSptcAcres	11.4570	0.4135	27.706	< 2e-16 ***
perSptcLUT	9.0394	1.1636	7.769	7.93e-15 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 12857 on 21040 degrees of freedom  
Residual deviance: 2555 on 21037 degrees of freedom  
(231527 observations deleted due to missingness)  
AIC: 2563
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1596	54
1	325	19066

```
$`Total N used in Model (NA excluded)`  
[1] 21041
```

```
$`Proportion Correct`  
[1] 0.9819875
```

```
$`Proportion Wrong`  
[1] 0.01801245
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.002824268
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
7417	221780	2320	19130	1921	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	7417	0	0	10	0
1	0	221780	2320	19120	1921

```
$`Total OSTDS prob >=0.50`  
[1] 240910
```

```
$`Total OSTDS prob >=0.25`  
[1] 241378
```

```
$`Total OSTDS prob>=0.75`  
[1] 233556
```

```
$`Sum OSTDS prob>=0.5`  
[1] 230368.7
```

```
> Pinellas.predfinal[[1]] County 62
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR + perSptcLUT + Nbldg,  
    family = binomial, data = Pinellas.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.83545	-0.05883	-0.04447	-0.04148	3.89253

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-8.50349	0.19340	-43.969	< 2e-16 ***
perSptcTA	11.58242	0.15776	73.419	< 2e-16 ***
perSptcAcres	75.83042	7.36850	10.291	< 2e-16 ***
perSptcNBR	8.29232	0.16904	49.056	< 2e-16 ***
perSptcLUT	90.34148	16.45463	5.490	4.01e-08 ***
Nbldg	0.09614	0.02528	3.803	0.000143 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 24896.0 on 241126 degrees of freedom  
Residual deviance: 7515.4 on 241121 degrees of freedom  
(193257 observations deleted due to missingness)  
AIC: 7527.4
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	238628	885
1	315	1299

```
$`Total N used in Model (NA excluded)`  
[1] 241127
```

```
$`Proportion Correct`  
[1] 0.9950234
```



```
$`Proportion Wrong`  
[1] 0.004976631
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.4052198
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
20627	30470	118938	21233
Septic	Sewer	<NA>	
2184	240932	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	20627	0	0	0	4	6840
1	0	30470	118938	21233	2180	234092

```
$`Total OSTDS prob >=0.50`  
[1] 32654
```

```
$`Total OSTDS prob >=0.25`  
[1] 35989
```

```
$`Total OSTDS prob>=0.75`  
[1] 24887
```

```
$`Sum OSTDS prob>=0.5`  
[1] 28466.14
```

```
> Polk.predfinal[[1]] County 63
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
perSptcNBR +  
perSptcLUT + Nbldg, family = binomial, data = Polk.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.58362	-0.06444	0.05566	0.09694	3.83249

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-5.25410	0.24967	-21.044	< 2e-16	***
perSptcTA	2.06368	0.25928	7.959	1.73e-15	***
perSptcAcres	1.40628	0.20366	6.905	5.02e-12	***
perSptcNBR	10.34294	0.19453	53.169	< 2e-16	***
perSptcLUT	-3.86602	0.38979	-9.918	< 2e-16	***
Nbldg	-0.06872	0.02061	-3.334	0.000855	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 56684.8 on 40958 degrees of freedom  
Residual deviance: 2723.5 on 40953 degrees of freedom  
(267724 observations deleted due to missingness)  
AIC: 2735.5
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	19208	108
1	278	21365

```
$`Total N used in Model (NA excluded)`  
[1] 40959
```

```
$`Proportion Correct`  
[1] 0.990576
```

```
$`Proportion Wrong`
```

```
[1] 0.009424058
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.005029572
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
84003	168585	15023	21553	19519	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	84003	0	0	1116	675
1	0	168585	15023	20437	18844

```
$`Total OSTDS prob >=0.50`
```

```
[1] 190138
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 199975
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 159599
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 172849.8
```

```
> Putnam.predfinal[[1]] County 64
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcLUT + Nbldg,  
     family = binomial, data = Putnam.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.60637	0.06585	0.06585	0.06585	3.11727

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-12.71206	0.85818	-14.813	< 2e-16 ***
perSptcTA	10.10168	0.44503	22.699	< 2e-16 ***
perSptcLUT	9.33313	0.81642	11.432	< 2e-16 ***
Nbldg	-0.10376	0.02502	-4.147	3.37e-05 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 3251.48 on 7674 degrees of freedom  
Residual deviance: 359.56 on 7671 degrees of freedom  
(93176 observations deleted due to missingness)  
AIC: 367.56
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	397	12
1	22	7244

```
$`Total N used in Model (NA excluded)`  
[1] 7675
```

```
$`Proportion Correct`  
[1] 0.99557
```

```
$`Proportion Wrong`  
[1] 0.004429967
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.001653804
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
59499	32796	868	7269	419	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	59499	0	0	649	14
1	0	32796	868	6620	405

```
$`Total OSTDS prob >=0.50`  
[1] 40065
```

```
$`Total OSTDS prob >=0.25`  
[1] 40080
```

```
$`Total OSTDS prob>=0.75`  
[1] 40045
```

```
$`Sum OSTDS prob>=0.5`  
[1] 39957.46
```

```
> StJohns.predfinal[[1]] County 65
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcAcres + perSptcNBR +  
    perSptcLUT +  
    Nbldg, family = binomial, data = StJohns.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.30949	-0.08898	0.01130	0.01395	3.56698

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-3.42341	0.44887	-7.627	2.41e-14	***
perSptcAcres	1.04395	0.41570	2.511	0.01203	*
perSptcNBR	14.43889	0.54132	26.673	< 2e-16	***
perSptcLUT	-4.59790	0.93677	-4.908	9.19e-07	***
Nbldg	-0.13047	0.04481	-2.912	0.00359	**

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 36485.2 on 26354 degrees of freedom  
Residual deviance: 1357.1 on 26350 degrees of freedom  
(135550 observations deleted due to missingness)  
AIC: 1367.1
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	12564	190
1	36	13565

```
$`Total N used in Model (NA excluded)`
```

```
[1] 26355
```

```
$`Proportion Correct`
```

```
[1] 0.9914248
```

```
$`Proportion Wrong`
```

```
[1] 0.008575223
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.01381316
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
63555	67774	4070	13906	12600	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	63555	0	0	1046	508
1	0	67774	4070	12860	12092

```
$`Total OSTDS prob >=0.50`  
[1] 81680
```

```
$`Total OSTDS prob >=0.25`  
[1] 82636
```

```
$`Total OSTDS prob>=0.75`  
[1] 77460
```

```
$`Sum OSTDS prob>=0.5`  
[1] 77682.03
```

```
> StLucie.predfinal[[1]] County 66
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcAcres + perSptcNBR + yrblt +  
  Nbldg + totsqft, family = binomial, data = StLucie.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.2303	-0.4080	-0.2511	-0.1686	4.7322

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	6.964e+01	3.351e+00	20.786	< 2e-16 ***
perSptcAcres	2.129e+00	1.901e-01	11.198	< 2e-16 ***
perSptcNBR	9.343e+00	1.339e-01	69.759	< 2e-16 ***
yrblt	-3.712e-02	1.676e-03	-22.152	< 2e-16 ***
Nbldg	5.990e-01	1.217e-01	4.923	8.52e-07 ***
totsqft	-8.516e-05	1.119e-05	-7.608	2.77e-14 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 43176  on 48186  degrees of freedom  
Residual deviance: 22499  on 48181  degrees of freedom  
(104950 observations deleted due to missingness)  
AIC: 22511
```

```
Number of Fisher Scoring iterations: 6
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	39582	3888
1	650	4067

```
$`Total N used in Model (NA excluded)`
```

```
[1] 48187
```

```
$`Proportion Correct`
```

```
[1] 0.9058252
```

```
$`Proportion Wrong`
```

```
[1] 0.09417478
```



```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.4887492
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
42448	21204	34463	4524
Septic	Sewer	<NA>	
8326	42172	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	42448	0	0	0	293	1527
1	0	21204	34463	4524	8033	40645

```
$`Total OSTDS prob >=0.50`  
[1] 29530
```

```
$`Total OSTDS prob >=0.25`  
[1] 35854
```

```
$`Total OSTDS prob>=0.75`  
[1] 28203
```

```
$`Sum OSTDS prob>=0.5`  
[1] 28811.01
```

```
> SantaRosa.predfinal[[1]] County 67
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
     perSptcNBR + perSptcLUT, family = binomial, data =  
     SantaRosa.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-3.35669	-0.65431	0.05693	0.37027	3.02906

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-13.2671	1.3605	-9.752	< 2e-16 ***
perSptcTA	8.6593	0.1838	47.125	< 2e-16 ***
perSptcAcres	5.1489	0.1047	49.156	< 2e-16 ***
perSptcNBR	6.2661	2.3130	2.709	0.00675 **
perSptcLUT	4.9677	0.6516	7.624	2.46e-14 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 31055 on 22822 degrees of freedom  
Residual deviance: 16504 on 22818 degrees of freedom  
(67983 observations deleted due to missingness)  
AIC: 16514
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	7239	1749
1	2350	11485

```
$`Total N used in Model (NA excluded)`
```

```
[1] 22823
```

```
$`Proportion Correct`
```

```
[1] 0.8204005
```

```
$`Proportion Wrong`
```

```
[1] 0.1795995
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.1321596
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
28438	31184	8302	13240	9642	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	28438	0	0	2016	1491
1	0	31184	8302	11224	8151

```
$`Total OSTDS prob >=0.50`  
[1] 44424
```

```
$`Total OSTDS prob >=0.25`  
[1] 48355
```

```
$`Total OSTDS prob>=0.75`  
[1] 39019
```

```
$`Sum OSTDS prob>=0.5`  
[1] 41783.24
```

```
> Sarasota.predfinal[[1]] County 68
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR +  
    perSptcLUT + totsqft, family = binomial, data =  
    Sarasota.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-4.23633	-0.14132	-0.12662	-0.09964	4.13151

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-5.607e+00	5.447e-02	-102.931	< 2e-16	***
perSptcTA	4.881e+00	2.285e-01	21.363	< 2e-16	***
perSptcAcres	9.753e+00	3.638e-01	26.805	< 2e-16	***
perSptcNBR	7.947e+00	1.052e-01	75.540	< 2e-16	***
perSptcLUT	1.014e+00	3.305e-01	3.069	0.00215	**
totsqft	-5.623e-05	5.832e-06	-9.641	< 2e-16	***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 36171  on 79946  degrees of freedom  
Residual deviance: 12241  on 79941  degrees of freedom  
(136863 observations deleted due to missingness)  
AIC: 12253
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	74672	1760
1	500	3015

```
$`Total N used in Model (NA excluded)`  
[1] 79947
```

```
$`Proportion Correct`  
[1] 0.9717313
```

```
$`Proportion Wrong`  
[1] 0.02826873
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.3685864
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
58798	38765	39221	4783	75243	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	58798	0	0	941	2684
1	0	38765	39221	3842	72559

```
$`Total OSTDS prob >=0.50`  
[1] 43548
```

```
$`Total OSTDS prob >=0.25`  
[1] 54167
```

```
$`Total OSTDS prob>=0.75`  
[1] 41581
```

```
$`Sum OSTDS prob>=0.5`  
[1] 41808.59
```

```
> Seminole.predfinal[[1]]    County 69
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres + totsqft +  
    yrbldt, family = binomial, data = Seminole.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-4.8149	-0.3350	-0.2205	-0.1374	4.9523

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	7.145e+01	2.191e+00	32.61	<2e-16 ***
perSptcTA	1.088e+01	1.839e-01	59.17	<2e-16 ***
perSptcAcres	1.048e+01	1.154e-01	90.75	<2e-16 ***
totsqft	-1.229e-04	6.652e-06	-18.47	<2e-16 ***
yrbldt	-3.855e-02	1.114e-03	-34.59	<2e-16 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 49536  on 69426  degrees of freedom  
Residual deviance: 27121  on 69422  degrees of freedom  
(101072 observations deleted due to missingness)  
AIC: 27131
```

```
Number of Fisher Scoring iterations: 7
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	60337	3521
1	1109	4460

```
$`Total N used in Model (NA excluded)`  
[1] 69427
```

```
$`Proportion Correct`  
[1] 0.9333112
```

```
$`Proportion Wrong`  
[1] 0.06668875
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.4411728
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	NotEstimated
19576	32631	40783	2395
Septic	Sewer	<NA>	
8514	66600	0	

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	19576	0	0	0	309	4522
1	0	32631	40783	2395	8205	62078

```
$`Total OSTDS prob >=0.50`  
[1] 41145
```

```
$`Total OSTDS prob >=0.25`  
[1] 44925
```

```
$`Total OSTDS prob>=0.75`  
[1] 37321
```

```
$`Sum OSTDS prob>=0.5`  
[1] 38941.11
```

```
> Sumter.predfinal[[1]] County 70
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcNBR + totsqft,  
     family = binomial, data = Sumter.all)
```

```
Deviance Residuals:
```

	Min	1Q	Median	3Q	Max
	-2.93464	-0.03245	-0.03209	-0.03165	3.77583

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-7.464e+00	2.400e-01	-31.096	< 2e-16 ***
perSptcTA	3.968e+00	4.119e-01	9.634	< 2e-16 ***
perSptcNBR	8.843e+00	3.771e-01	23.454	< 2e-16 ***
totsqft	-5.734e-05	1.651e-05	-3.473	0.000514 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 13928.91 on 29907 degrees of freedom  
Residual deviance: 974.58 on 29904 degrees of freedom  
(41828 observations deleted due to missingness)  
AIC: 982.58
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	27948	76
1	101	1783

```
$`Total N used in Model (NA excluded)`  
[1] 29908
```

```
$`Proportion Correct`  
[1] 0.9940819
```

```
$`Proportion Wrong`  
[1] 0.005918149
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```



```
[1] 0.04088219
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
19859	16507	5452	1859	28059	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	19859	0	0	127	318
1	0	16507	5452	1732	27741

```
$`Total OSTDS prob >=0.50`
```

```
[1] 18366
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 18409
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 18342
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 17885.85
```

> Suwannee.predfinal[[1]] County 70

\$`Model Summary`

Call:

```
glm(formula = septic ~ perSptcAcres + acres, family =  
  binomial, data = Suwannee.all)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-3.1759	0.1018	0.1133	0.1189	1.2853

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-7.933292	1.090841	-7.273	3.53e-13	***
perSptcAcres	13.241908	1.361438	9.726	< 2e-16	***
acres	-0.012197	0.002669	-4.569	4.90e-06	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 274.23 on 1220 degrees of freedom
Residual deviance: 166.15 on 1218 degrees of freedom
(27574 observations deleted due to missingness)
AIC: 172.15

Number of Fisher Scoring iterations: 7

\$`Model Results : Known vs Predicted`

	Known	
Predicted	0	1
0	2	1
1	27	1191

\$`Total N used in Model (NA excluded)`

[1] 1221

\$`Proportion Correct`

[1] 0.977068

\$`Proportion Wrong`

[1] 0.02293202

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.0008389262

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
14502	13068	4	1192	29	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	14502	0	0	168	12
1	0	13068	4	1024	17

\$`Total OSTDS prob >=0.50`

[1] 14260

\$`Total OSTDS prob >=0.25`

[1] 14262

\$`Total OSTDS prob>=0.75`

[1] 13212

\$`Sum OSTDS prob>=0.5`

[1] 13772.76

```
> Taylor.predfinal[[1]] County 72
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ acres, family = binomial, data =  
  Taylor.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.71265	0.04496	0.04509	0.04575	0.71178

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	6.902615	0.563619	12.247	< 2e-16 ***
acres	-0.008436	0.002384	-3.539	0.000401 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 61.011 on 3020 degrees of freedom  
Residual deviance: 55.455 on 3019 degrees of freedom  
(15820 observations deleted due to missingness)  
AIC: 59.455
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
1	4	3017

```
$`Total N used in Model (NA excluded)`
```

```
[1] 3021
```

```
$`Proportion Correct`
```

```
[1] NA
```

```
$`Proportion Wrong`
```

```
[1] NA
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] NA
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	Septic	Sewer	<NA>
8381	7439	3017	4	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	Septic	Sewer
0	8381	0	507	3
1	0	7439	2510	1

\$`Total OSTDS prob >=0.50`
[1] 10456

\$`Total OSTDS prob >=0.25`
[1] 10456

\$`Total OSTDS prob>=0.75`
[1] 10456

\$`Sum OSTDS prob>=0.5`
[1] 10446.86

> Union.predfinal[[1]] County 73

\$`Model Summary`

Call:

```
glm(formula = septic ~ acres, family = binomial, data =  
  Union.all)
```

Deviance Residuals:

	Min	1Q	Median	3Q	Max
	2.409e-06	2.409e-06	2.409e-06	2.409e-06	2.409e-06

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.657e+01	9.128e+03	0.003	0.998
acres	-1.827e-11	2.581e+02	-7.08e-14	1.000

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 0.0000e+00 on 1709 degrees of freedom
Residual deviance: 9.9207e-09 on 1708 degrees of freedom
(5008 observations deleted due to missingness)
AIC: 4

Number of Fisher Scoring iterations: 25

\$`Model Results : Known vs Predicted`

	Known
Predicted	1
	1 1710

\$`Total N used in Model (NA excluded)`
[1] 1710

\$`Proportion Correct`
[1] NA

\$`Proportion Wrong`
[1] NA

\$`Proportion of Known Septic Predicted to be Sewer`
[1] NA

\$`Assigned Wastewater Types`

NULL	EstSeptic	Septic	<NA>
2806	2202	1710	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	Septic
0	2806	0	239
1	0	2202	1471

\$`Total OSTDS prob >=0.50`
[1] 3912

\$`Total OSTDS prob >=0.25`
[1] 3912

\$`Total OSTDS prob>=0.75`
[1] 3912

\$`Sum OSTDS prob>=0.5`
[1] 3912

```
> Volusia.predfinal[[1]] County 74
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR +  
    perSptcLUT + Nbldg, family = binomial, data =  
    Volusia.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.85779	0.02822	0.03781	0.04082	2.91034

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-9.02509	3.06828	-2.941	0.00327	**
perSptcTA	8.00625	1.69730	4.717	2.39e-06	***
perSptcAcres	-9.35746	3.16836	-2.953	0.00314	**
perSptcNBR	13.90355	0.66021	21.059	< 2e-16	***
perSptcLUT	3.97988	0.77798	5.116	3.13e-07	***
Nbldg	-0.17278	0.06123	-2.822	0.00477	**

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 12600.87 on 20032 degrees of freedom  
Residual deviance: 383.92 on 20027 degrees of freedom  
(467625 observations deleted due to missingness)  
AIC: 395.92
```

```
Number of Fisher Scoring iterations: 10
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1876	15
1	32	18110

```
$`Total N used in Model (NA excluded)`  
[1] 20033
```

```
$`Proportion Correct`  
[1] 0.9976539
```


\$`Proportion Wrong`

[1] 0.002346129

\$`Proportion of Known Septic Predicted to be Sewer`

[1] 0.0008275862

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	NotEstimated
191656	274325	1579	59
Septic	Sewer	<NA>	
18131	1908	0	

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	NotEstimated	Septic	Sewer
0	191656	0	0	0	678	65
1	0	274325	1579	59	17453	1843

\$`Total OSTDS prob >=0.50`

[1] 292456

\$`Total OSTDS prob >=0.25`

[1] 292608

\$`Total OSTDS prob>=0.75`

[1] 291999

\$`Sum OSTDS prob>=0.5`

[1] 291437.9

```
> Wakulla.predfinal[[1]] County 75
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcAcres + perSptcLUT + totsqft,  
     family = binomial, data = Wakulla.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-2.8246	-0.7813	0.3762	0.5051	3.0275

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-5.945e+00	1.864e-01	-31.90	< 2e-16 ***
perSptcAcres	5.545e+00	1.615e-01	34.33	< 2e-16 ***
perSptcLUT	5.512e+00	2.189e-01	25.17	< 2e-16 ***
totsqft	-7.557e-05	2.037e-05	-3.71	0.000207 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 7160.4 on 5301 degrees of freedom  
Residual deviance: 4561.0 on 5298 degrees of freedom  
(19568 observations deleted due to missingness)  
AIC: 4569
```

```
Number of Fisher Scoring iterations: 5
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1600	503
1	551	2648

```
$`Total N used in Model (NA excluded)`  
[1] 5302
```

```
$`Proportion Correct`  
[1] 0.8012071
```

```
$`Proportion Wrong`  
[1] 0.1987929
```

```
$`Proportion of Known Septic Predicted to be Sewer`
```

```
[1] 0.1596319
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
11217	6232	2116	3154	2151	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	11217	0	0	333	612
1	0	6232	2116	2821	1539

```
$`Total OSTDS prob >=0.50`
```

```
[1] 9386
```

```
$`Total OSTDS prob >=0.25`
```

```
[1] 10877
```

```
$`Total OSTDS prob>=0.75`
```

```
[1] 8364
```

```
$`Sum OSTDS prob>=0.5`
```

```
[1] 8605.93
```

```
> Walton.predfinal[[1]] County 76
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ perSptcTA + perSptcAcres +  
    perSptcNBR +  
    totsqft, family = binomial, data = Walton.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.70511	0.04315	0.04632	0.05438	3.60703

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-9.244e+00	6.670e-01	-13.859	< 2e-16 ***
perSptcTA	4.909e+00	8.873e-01	5.533	3.15e-08 ***
perSptcAcres	2.141e+00	3.572e-01	5.995	2.04e-09 ***
perSptcNBR	9.196e+00	7.355e-01	12.503	< 2e-16 ***
totsqft	-4.522e-05	1.028e-05	-4.398	1.09e-05 ***

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 5669.54 on 5332 degrees of freedom  
Residual deviance: 734.54 on 5328 degrees of freedom  
(72872 observations deleted due to missingness)  
AIC: 744.54
```

```
Number of Fisher Scoring iterations: 9
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
0	1073	6
1	120	4134

```
$`Total N used in Model (NA excluded)`
```

```
[1] 5333
```

```
$`Proportion Correct`
```

```
[1] 0.9763735
```

```
$`Proportion Wrong`
```

```
[1] 0.02362648
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] 0.001449275
```

```
$`Assigned Wastewater Types`
```

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
39130	32937	805	4140	1193	0

```
$`Wastewater Types and Improvements`
```

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	39130	0	0	573	8
1	0	32937	805	3567	1185

```
$`Total OSTDS prob >=0.50`  
[1] 37077
```

```
$`Total OSTDS prob >=0.25`  
[1] 37085
```

```
$`Total OSTDS prob>=0.75`  
[1] 30712
```

```
$`Sum OSTDS prob>=0.5`  
[1] 32268.29
```

```
> Washington.predfinal[[1]] County 77
```

```
$`Model Summary`
```

```
Call:
```

```
glm(formula = septic ~ Nbldg + acres, family = binomial,  
     data = Washington.all)
```

```
Deviance Residuals:
```

Min	1Q	Median	3Q	Max
-3.53694	0.07165	0.07217	0.07352	1.04787

```
Coefficients:
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	6.283055	0.500408	12.556	< 2e-16 ***
Nbldg	-0.312640	0.097504	-3.206	0.00134 **
acres	-0.006558	0.002792	-2.349	0.01884 *

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
(Dispersion parameter for binomial family taken to be 1)
```

```
Null deviance: 80.169 on 1761 degrees of freedom  
Residual deviance: 71.856 on 1759 degrees of freedom  
(41025 observations deleted due to missingness)  
AIC: 77.856
```

```
Number of Fisher Scoring iterations: 8
```

```
$`Model Results : Known vs Predicted`
```

	Known	
Predicted	0	1
1	6	1756

```
$`Total N used in Model (NA excluded)`  
[1] 1762
```

```
$`Proportion Correct`  
[1] NA
```

```
$`Proportion Wrong`  
[1] NA
```

```
$`Proportion of Known Septic Predicted to be Sewer`  
[1] NA
```

\$`Assigned Wastewater Types`

NULL	EstSeptic	EstSewer	Septic	Sewer	<NA>
32532	8489	4	1756	6	0

\$`Wastewater Types and Improvements`

VIMP	NULL	EstSeptic	EstSewer	Septic	Sewer
0	32532	0	0	60	3
1	0	8489	4	1696	3

\$`Total OSTDS prob >=0.50`

[1] 10245

\$`Total OSTDS prob >=0.25`

[1] 10247

\$`Total OSTDS prob>=0.75`

[1] 10242

\$`Sum OSTDS prob>=0.5`

[1] 10217.85