

Appendix 1.

Binomial Logit Model: Motivation 2007

This section presents the statistical tests between commercial and non-commercial fishers in 2007 for each category (^a in Table 4)

1. Substance

Call:

```
glm(formula = Substance ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.389	-1.151	0.980	1.204	1.204

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	0.4838	0.1895	2.553	0.0107 *
MotivationNon Commercial	-0.5452	0.2459	-2.217	0.0266 *

1.1 Policy and Regulatory Issues

Call:

```
glm(formula = Policy ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.135	-1.009	-1.009	1.221	1.356

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-0.1018	0.1844	-0.552	0.581
MotivationNon Commercial	-0.3088	0.2441	-1.265	0.206

1.1.1 Inadequate Enforcement

Call:

```
glm(formula = Inadequate_Enforcement ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4394	-0.4394	-0.4394	-0.4208	2.2218

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.37955	0.33054	-7.199	6.07e-13 ***
MotivationNon Commercial	0.09038	0.42741	0.211	0.833

1.1.2 Catch Limit Regulations

Call:

```
glm(formula = Improve_Catch_Limit_Regulations ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3747	-0.3747	-0.2739	-0.2739	2.5698

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
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(Intercept)	-2.6210	0.3662	-7.158	8.2e-13 ***
MotivationNon Commercial	-0.6434	0.5542	-1.161	0.246

1.1.3 Size/Weight Limit

Call:

```
glm(formula = Size_Weight_Limit ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4424	-0.4424	-0.3370	-0.3370	2.4069

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.2749	0.3166	-7.185	6.73e-13 ***
MotivationNon Commercial	-0.5648	0.4667	-1.210	0.226

1.1.4 Access Issues

Call:

```
glm(formula = Access_Issues ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.8100	-0.8100	-0.7396	1.5964	1.6913

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-0.9461	0.2051	-4.613	3.97e-06 ***

MotivationNon Commercial	-0.2106	0.2753	-0.765	0.444
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1.1.5 Infrastructure Maintenance

Call:

```
glm(formula = Infrastructure_Maintenance ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5117	-0.5117	-0.5117	-0.4832	2.1004

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.0890	0.2940	-7.105	1.2e-12 ***
MotivationNon Commercial	0.1219	0.3787	0.322	0.748

1.2 Financial Hardships

Call:

```
glm(formula = Fisher_.Livelihood ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7954	-0.7954	-0.3911	-0.3911	2.2842

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
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(Intercept)	-0.9886	0.2071	-4.774	1.80e-06 ***
MotivationNon Commercial	-1.5438	0.3645	-4.236	2.28e-05 ***

1.3 Resource Sustainability

Call:

```
glm(formula = Sustainability ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5771	-0.5771	-0.4832	-0.4832	2.1004

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.0890	0.2940	-7.105	1.2e-12 ***
MotivationNon Commercial	0.3806	0.3656	1.041	0.298

1.3.1 Overfishing

Call:

```
glm(formula = Overfishing ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5385	-0.5385	-0.5385	-0.4208	2.2218

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
--	----------	------------	---------	----------

(Intercept)	-2.3795	0.3305	-7.199	6.07e-13 ***
MotivationNon Commercial	0.5218	0.4023	1.297	0.195

1.3.2 Sustainable Practices

Call:

```
glm(formula = Sustainable_Practices ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2626	-0.2626	-0.2496	-0.2496	2.6398

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.3499	0.5087	-6.585	4.54e-11 ***
MotivationNon Commercial	-0.1033	0.6820	-0.151	0.88

2. Relationships

Call:

```
glm(formula = Relationships ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.295	-1.039	-1.039	1.064	1.322

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
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(Intercept)	0.2729	0.1858	1.468	0.142
MotivationNon Commercial	-0.6072	0.2445	-2.484	0.013 *

2.1 External Conflicts (Fishers vs. Management)

Call:

```
glm(formula = External ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7511	-0.7511	-0.5771	-0.5771	1.9364

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.1213	0.2138	-5.244	1.57e-07 ***
MotivationNon Commercial	-0.5870	0.3049	-1.925	0.0542

2.1.1 Distrust

Call:

```
glm(formula = Distrust ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7209	-0.7209	-0.5644	-0.5644	1.9574

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
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(Intercept)	-1.2150	0.2191	-5.544	2.95e-08 ***
MotivationNon Commercial	-0.5414	0.3113	-1.739	0.082 .

2.1.2 Respect

Call:

```
glm(formula = Respect ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2270	-0.2270	-0.1928	-0.1928	2.8267

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.6463	0.5848	-6.235	4.52e-10 ***
MotivationNon Commercial	-0.3302	0.8255	-0.400	0.689

2.2 Internal Conflicts (Fishers vs. Other Fishers)

Call:

```
glm(formula = Internal ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.9940	-0.9940	-0.8971	1.3726	1.4865

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
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(Intercept)	-0.4480	0.1888	-2.374	0.0176 *
MotivationNon Commercial	-0.2543	0.2516	-1.011	0.3121

2.2.1 Hawaii Small Boat Fishery is not the Problem

Call:

```
glm(formula = Hawaii_Small_Boat_Fishery_is_not_the_Problem ~
    Motivation, family = binomial(link = "logit"), data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3497	-0.3497	-0.2229	-0.2229	2.7230

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.7636	0.3897	-7.092	1.33e-12 ***
MotivationNon Commercial	-0.9190	0.6389	-1.438	0.15

2.2.2 Blaming Longliners

Call:

```
glm(formula = Blaming_Longliners ~ Motivation, family = binomial(link = "logit"),
    data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.8245	-0.8245	-0.6378	-0.6378	1.8399

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-0.9045	0.2033	-4.45	8.6e-06 ***

MotivationNon Commercial	-0.5847	0.2867	-2.04	0.0414 *
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2.2.3 Blaming Netters

Call:

```
glm(formula = Blaming_Netters ~ Motivation, family = binomial(link = "logit"),
    data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5385	-0.5385	-0.5385	-0.5214	2.0311

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.92668	0.27636	-6.972	3.13e-12 ***
MotivationNon Commercial	0.06896	0.35906	0.192	0.848

2.2.4 Blaming Charters

Call:

```
glm(formula = Blaming_Charters ~ Motivation, family = binomial(link = "logit"),
    data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.31725	-0.31725	-0.31725	-0.00005	2.45532

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-20.57	1632.21	-0.013	0.990
MotivationNon Commercial	17.60	1632.21	0.011	0.991

2.2.5 Illegal FADS/Private Buoys

Call:

```
glm(formula = Illegal_FADS_Private_Buoys ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.13047	-0.13047	-0.00002	-0.00002	3.08891

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-4.762	1.004	-4.742	2.12e-06 ***
MotivationNon Commercial	-17.804	3775.013	-0.005	0.996

3. Process

Call:

```
glm(formula = Process ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7360	-0.7360	-0.7176	-0.7176	1.7221

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.16761	0.21639	-5.396	6.82e-08 ***
MotivationNon Commercial	-0.05776	0.28599	-0.202	0.84

3.1 Ineffective Process Design

Call:

```
glm(formula = Process_Design ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

```
   Min    1Q  Median    3Q   Max  
-0.5578 -0.5578 -0.5385 -0.5385  2.0013
```

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.78191	0.26215	-6.797	1.07e-11 ***
MotivationNon Commercial	-0.07581	0.34824	-0.218	0.828

3.1.1 Equity

Call:

```
glm(formula = Equity ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

```
   Min    1Q  Median    3Q   Max  
-0.2963 -0.2963 -0.2963 -0.2626  2.6017
```

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.3499	0.5087	-6.585	4.54e-11 ***
MotivationNon Commercial	0.2460	0.6388	0.385	0.7

3.1.2 Input from Fishers'

Call:

```
glm(formula = Input_from_Fishers ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3370	-0.3370	-0.3370	-0.2943	2.5145

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.1179	0.4569	-6.824	8.86e-12 ***
MotivationNon Commercial	0.2782	0.5713	0.487	0.626

3.1.3 Research

Call:

```
glm(formula = Research ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3983	-0.3983	-0.2739	-0.2739	2.5698

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.4941	0.3468	-7.191	6.41e-13 ***
MotivationNon Commercial	-0.7704	0.5416	-1.422	0.155

3.2 Locals Feeling Marginalized

Call:

```
glm(formula = Locals_Marginalized ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5398	-0.5398	-0.4546	-0.4546	2.1546

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.8524	0.2689	-6.889	5.62e-12 ***
MotivationNon Commercial	-0.3655	0.3763	-0.971	0.331

3.3.1 Lack of Traditional Knowledge

Call:

```
glm(formula = Lack_of_Traditional_Knowledge ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2963	-0.2963	-0.2963	-0.2943	2.5145

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.1179	0.4570	-6.823	8.94e-12 ***
MotivationNon Commercial	0.0140	0.5984	0.023	0.981

3.3.2 Displace Locals

Call:

```
glm(formula = Displace_Locals ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4832	-0.4832	-0.3738	-0.3738	2.3220

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.0890	0.2940	-7.105	1.2e-12 ***
MotivationNon Commercial	-0.5370	0.4289	-1.252	0.211

Binomial Logit Model: Motivation 2014

This section presents the statistical tests between commercial and non-commercial fishers in 2014 for each category (^b in Table 4)

1. Substance

Call:

```
glm(formula = Substance ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.6727	-1.6179	0.7530	0.7936	0.7936

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	0.9939	0.1550	6.411	1.45e-10 ***
MotivationNon Commercial	0.1217	0.2410	0.505	0.614

1.1 Policy and Regulatory Issues

Call:

```
glm(formula = Policy ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.331	-1.310	1.031	1.031	1.050

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	0.35437	0.13985	2.534	0.0113 *
MotivationNon Commercial	-0.04821	0.21324	-0.226	0.8212

1.1.1 Inadequate Enforcement

Call:

```
glm(formula = Inadequate_Enforcement ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6122	-0.6122	-0.4344	-0.4344	2.1943

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.3131	0.2405	-9.618	<2e-16 ***
MotivationNon Commercial	0.7337	0.3202	2.292	0.0219 *

1.1.2 Catch Limit Regulations

Call:

```
glm(formula = Improve_Catch_Limit_Regulations ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3425	-0.3425	-0.2953	-0.2953	2.5118

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.1110	0.3406	-9.133	<2e-16 ***
MotivationNon Commercial	0.3043	0.4836	0.629	0.529

1.1.3 Size/Weight Limit

Call:

```
glm(formula = Size_Weight_Limit ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7270	-0.7270	-0.5609	-0.5609	1.9632

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.1958	0.1630	-7.334	2.23e-13 ***
MotivationNon Commercial	-0.5740	0.2783	-2.062	0.0392 *

1.1.4 Access Issues

Call:

```
glm(formula = Access_Issues ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5128	-0.5128	-0.5128	-0.4467	2.1700

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.9623	0.2094	-9.369	<2e-16 ***
MotivationNon Commercial	-0.2925	0.3428	-0.853	0.393

1.1.5 Infrastructure Maintenance

Call:

```
glm(formula = Infrastructure_Maintenance ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.8403	-0.8403	-0.7185	1.5572	1.7208

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.2225	0.1642	-7.445	9.73e-14 ***
MotivationNon Commercial	0.3632	0.2393	1.518	0.129

1.2 Financial Hardships

Call:

```
glm(formula = Fisher_.Livelihood ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6302	-0.6302	-0.5997	-0.5997	1.8997

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.5157	0.1792	-8.46	<2e-16 ***
MotivationNon Commercial	-0.1090	0.2795	-0.39	0.697

1.3 Resource Sustainability

Call:

```
glm(formula = Sustainability ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7305	-0.7305	-0.5438	-0.5438	1.9923

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.8367	0.1999	-9.186	<2e-16 ***
MotivationNon Commercial	0.6518	0.2744	2.376	0.0175 *

1.3.1 Overfishing

Call:

```
glm(formula = Overfishing ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

```
   Min      1Q  Median      3Q      Max
-0.4772 -0.4772 -0.3116 -0.3116  2.4695
```

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.0007	0.3240	-9.262	<2e-16 ***
MotivationNon Commercial	0.8852	0.4134	2.141	0.0322 *

1.3.2 Sustainable Practices

Call:

```
glm(formula = Sustainable_Practices ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

```
   Min      1Q  Median      3Q      Max
-0.5203 -0.5203 -0.4579 -0.4579  2.1482
```

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
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(Intercept)	-2.2025	0.2299	-9.579	<2e-16 ***
MotivationNon Commercial	0.2710	0.3318	0.817	0.414

2. Relationships

Call:

```
glm(formula = Relationships ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.9764	-0.9764	-0.9145	1.3927	1.4653

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-0.4932	0.1419	-3.476	0.00051 ***
MotivationNon Commercial	-0.1622	0.2197	-0.738	0.46024

2.1 External Conflicts (Fishers vs. Management)

Call:

```
glm(formula = External ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5538	-0.5538	-0.4621	-0.4621	2.1401

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
--	----------	------------	---------	----------

(Intercept)	-1.7973	0.1971	-9.118	<2e-16 ***
MotivationNon Commercial	-0.3859	0.3292	-1.172	0.241

2.1.1 Distrust

Call:

```
glm(formula = Distrust ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4579	-0.4579	-0.4579	-0.4144	2.2350

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.2025	0.2300	-9.578	<2e-16 ***
MotivationNon Commercial	-0.2093	0.3697	-0.566	0.571

2.1.2 Respect

Call:

```
glm(formula = Respect ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4579	-0.4579	-0.4579	-0.3425	2.3939

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.2025	0.2300	-9.578	<2e-16 ***

MotivationNon Commercial -0.6042 0.4132 -1.462 0.144

2.2 Internal Conflicts (Fishers vs. Other Fishers)

Call:

```
glm(formula = Internal ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7971	-0.7971	-0.7854	1.6133	1.6288

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.01807	0.15591	-6.530	6.59e-11 ***
MotivationNon Commercial	0.03434	0.23719	0.145	0.885

2.2.1 Hawaii Small Boat Fishery is not the Problem

Call:

```
glm(formula = Hawaii_Small_Boat_Fishery_is_not_the_Problem ~  
     Motivation, family = binomial(link = "logit"), data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3425	-0.3425	-0.2598	-0.2598	2.6100

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.3722	0.3844	-8.773	<2e-16 ***

MotivationNon Commercial	0.5655	0.5153	1.097	0.273
--------------------------	--------	--------	-------	-------

-

2.2.2 Blaming Longliners

Call:

```
glm(formula = Blaming_Longliners ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4772	-0.4772	-0.4463	-0.4463	2.1708

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.256	0.235	-9.603	<2e-16 ***
MotivationNon Commercial	0.141	0.348	0.405	0.685

2.2.3 Blaming Netters

Call:

```
glm(formula = Blaming_Netters ~ Motivation, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4918	-0.4918	-0.4579	-0.4579	2.1482

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.2025	0.2299	-9.579	<2e-16 ***
MotivationNon Commercial	0.1512	0.3400	0.445	0.656

2.2.4 Blaming Charters

Call:

```
glm(formula = Blaming_Charters ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2402	-0.2402	-0.2402	-0.1596	2.9562

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.5313	0.4142	-8.526	<2e-16 ***
MotivationNon Commercial	-0.8255	0.8234	-1.003	0.316

2.2.5 Illegal FADS/Private Buoys

Call:

```
glm(formula = Illegal_FADS_Private_Buoys ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2953	-0.2953	-0.2953	-0.2783	2.5577

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.1110	0.3407	-9.132	<2e-16 ***
MotivationNon Commercial	-0.1211	0.5379	-0.225	0.822

3. Process

Call:

```
glm(formula = Process ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6023	-0.6023	-0.5740	-0.5740	1.9414

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-1.6151	0.1851	-8.727	<2e-16 ***
MotivationNon Commercial	-0.1047	0.2887	-0.362	0.717

3.1 Ineffective Process Design

Call:

```
glm(formula = Process_Design ~ Motivation, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5022	-0.5022	-0.5022	-0.4772	2.1116

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.0069	0.2130	-9.421	<2e-16 ***
MotivationNon Commercial	-0.1087	0.3336	-0.326	0.745

3.1.1 Equity

Call:

```
glm(formula = Equity ~ Motivation, family = binomial(link = "logit"),  
    data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3971	-0.3971	-0.3971	-0.3224	2.4426

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.5004	0.2601	-9.615	<2e-16 ***
MotivationNon Commercial	-0.4308	0.4464	-0.965	0.335

3.1.2 Input from Fishers'

Call:

```
glm(formula = Input_from_Fishers ~ Motivation, family = binomial(link = "logit"),  
    data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3224	-0.3224	-0.2598	-0.2598	2.6100

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.3722	0.3844	-8.773	<2e-16 ***
MotivationNon Commercial	0.4410	0.5286	0.834	0.404

3.1.3 Research

Call:

```
glm(formula = Research ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.1958	-0.1958	-0.1380	-0.1380	3.0524

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-4.6492	0.7105	-6.544	6e-11 ***
MotivationNon Commercial	0.7044	0.9190	0.766	0.443

3.2 Locals Feeling Marginalized

Call:

```
glm(formula = Locals_Marginalized ~ Motivation, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3971	-0.3971	-0.3971	-0.3799	2.3085

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-2.50041	0.26005	-9.615	<2e-16 ***
MotivationNon Commercial	-0.09213	0.40662	-0.227	0.821

3.2.1 Lack of Traditional Knowledge

Call:

```
glm(formula = Lack_of_Traditional_Knowledge ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2780	-0.2780	-0.2780	-0.1958	2.8157

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.2338	0.3605	-8.971	<2e-16 ***
MotivationNon Commercial	-0.7110	0.6853	-1.038	0.299

3.2.2 Displace Locals

Call:

```
glm(formula = Displace_Locals ~ Motivation, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3425	-0.3425	-0.2402	-0.2402	2.6684

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-3.5313	0.4142	-8.526	<2e-16 ***
MotivationNon Commercial	0.7245	0.5379	1.347	0.178

Binomial Logit Model: All Stakeholders in 2007 & 2014

This section presents the statistical tests between all stakeholders in 2007 and 2014 for each category (c in Table 4)

1. Substance

Call:

```
glm(formula = Substance ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.6350	-1.2478	0.7808	0.7808	1.1086

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-248.62810	48.20847	-5.157	2.50e-07 ***
Data_set	0.12396	0.02398	5.170	2.34e-07 ***

1.1 Policy and Regulatory Issues

Call:

```
glm(formula = Policy ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.320	-1.061	1.041	1.041	1.298

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-175.01013	45.90513	-3.812	0.000138 ***
Data_set	0.08706	0.02283	3.814	0.000137 ***

1.1.1 Inadequate Enforcement

Call:

```
glm(formula = Inadequate_Enforcement ~ Data_set, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5131	-0.5131	-0.4724	-0.4317	2.1998

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-106.97210	75.31929	-1.420	0.156
Data_set	0.05214	0.03744	1.392	0.164

1.1.2 Catch Limit Regulations

Call:

```
glm(formula = Improve_Catch_Limit_Regulations ~ Data_set, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3197	-0.3197	-0.3054	-0.3054	2.4853

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
--	----------	------------	---------	----------

(Intercept)	23.86706	106.24325	0.225	0.822
Data_set	-0.01336	0.05284	-0.253	0.800

1.1.3 Size/Weight Limit

Call:

```
glm(formula = Size_Weight_Limit ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6600	-0.6600	-0.3843	-0.3843	2.2990

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-333.85714	76.52607	-4.363	1.28e-05 ***
Data_set	0.16507	0.03803	4.341	1.42e-05 ***

1.1.4 Access Issues

Call:

```
glm(formula = Access_Issues ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7694	-0.7694	-0.4888	-0.4888	2.0899

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	285.29900	61.24798	4.658	3.19e-06 ***

Data_set	-0.14268	0.03047	-4.682	2.84e-06 ***
----------	----------	---------	--------	--------------

1.1.5 Infrastructure Maintenance

Call:

```
glm(formula = Infrastructure_Maintenance ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7668	-0.7668	-0.4999	-0.4999	2.0697

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-272.43923	63.27094	-4.306	1.66e-05 ***
Data_set	0.13474	0.03145	4.285	1.83e-05 ***

1.2 Financial Hardships

Call:

```
glm(formula = Fisher_.Livelihood ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6136	-0.6136	-0.5836	-0.5836	1.9257

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-33.05395	61.48862	-0.538	0.591

Data_set	0.01563	0.03057	0.511	0.609
----------	---------	---------	-------	-------

1.3 Resource Sustainability

Call:

```
glm(formula = Sustainability ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5976	-0.5976	-0.5314	-0.5314	2.0137

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-74.74637	64.71197	-1.155	0.248
Data_set	0.03630	0.03217	1.128	0.259

1.3.1 Overfishing

Call:

```
glm(formula = Overfishing ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4226	-0.4226	-0.3951	-0.3951	2.2757

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	37.86005	83.33913	0.454	0.650

Data_set	-0.02005	0.04145	-0.484	0.629
----------	----------	---------	--------	-------

1.3.2 Sustainable Practices

Call:

```
glm(formula = Sustainable_Practices ~ Data_set, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4826	-0.4826	-0.4826	-0.2552	2.6234

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-381.01547	108.41886	-3.514	0.000441 ***
Data_set	0.18814	0.05387	3.493	0.000478 ***

2. Relationships

Call:

```
glm(formula = Relationships ~ Data_set, family = binomial(link = "logit"),
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.1443	-0.9435	-0.9435	1.2108	1.4309

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	143.36251	46.23407	3.101	0.00193 **

Data_set	-0.07147	0.02299	-3.108	0.00188 **
----------	----------	---------	--------	------------

2.1 External Conflicts (Fishers vs. Management)

Call:

```
glm(formula = External ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6533	-0.6533	-0.5131	-0.5131	2.0459

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	149.19019	62.73802	2.378	0.0174 *
Data_set	-0.07505	0.03121	-2.405	0.0162 *

2.1.1 Distrust

Call:

```
glm(formula = Distrust ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.6329	-0.6329	-0.4372	-0.4372	2.1887

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	225.9688	68.1420	3.316	0.000913 ***

Data_set	-0.1133	0.0339	-3.343	0.000828 ***
----------	---------	--------	--------	--------------

2.1.2 Respect

Call:

```
glm(formula = Respect ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4095	-0.4095	-0.4095	-0.2078	2.7737

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-401.92165	130.67660	-3.076	0.00210 **
Data_set	0.19835	0.06492	3.055	0.00225 **

2.2 Internal Conflicts (Fishers vs. Other Fishers)

Call:

```
glm(formula = Internal ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.9438	-0.9438	-0.7854	1.4305	1.6288

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	125.62574	49.09029	2.559	0.0105 *

Data_set	-0.06288	0.02441	-2.576	0.0100 *
----------	----------	---------	--------	----------

2.2.1 Hawaii Small Boat Fishery is not the Problem

Call:

```
glm(formula = Hawaii_Small_Boat_Fishery_is_not_the_Problem ~
    Data_set, family = binomial(link = "logit"), data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2961	-0.2961	-0.2961	-0.2826	2.5458

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-30.54723	114.89161	-0.266	0.790
Data_set	0.01363	0.05713	0.239	0.811

2.2.2 Blaming Longliners

Call:

```
glm(formula = Blaming_Longliners ~ Data_set, family = binomial(link = "logit"),
    data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7190	-0.7190	-0.4571	-0.4571	2.1497

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	281.24387	64.34963	4.371	1.24e-05 ***
Data_set	-0.14074	0.03202	-4.396	1.10e-05 ***

2.2.3 Blaming Netters

Call:

```
glm(formula = Blaming_Netters ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5314	-0.5314	-0.4700	-0.4700	2.1251

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	73.04052	70.21570	1.040	0.298
Data_set	-0.03733	0.03492	-1.069	0.285

2.2.4 Blaming Charters

Call:

```
glm(formula = Blaming_Charters ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2404	-0.2404	-0.2082	-0.2082	2.7721

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	79.73913	145.43274	0.548	0.583
Data_set	-0.04149	0.07234	-0.574	0.566

2.2.5 Illegal FADS/Private Buoys

Call:

```
glm(formula = Illegal_FADS_Private_Buoys ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2082	-0.2082	-0.2082	-0.0844	3.3581

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-525.8302	305.8985	-1.719	0.0856 .
Data_set	0.2592	0.1519	1.706	0.0880 .

3. Process

Call:

```
glm(formula = Process ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.7254	-0.7254	-0.5922	-0.5922	1.9117

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	128.09793	57.35406	2.233	0.0255 *
Data_set	-0.06442	0.02853	-2.258	0.0239 *

3.1 Ineffective Process Design

Call:

```
glm(formula = Process_Design ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4950	-0.4950	-0.4950	-0.4917	2.0845

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	-6.015386	71.274090	-0.084	0.933
Data_set	0.001975	0.035442	0.056	0.956

3.1.1 Equity

Call:

```
glm(formula = Equity ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4226	-0.4226	-0.3647	-0.3647	2.3424

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	85.36236	86.20885	0.990	0.322
Data_set	-0.04371	0.04288	-1.019	0.308

3.1.2 Input from Fishers'

Call:

```
glm(formula = Input_from_Fishers ~ Data_set, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.3424	-0.3424	-0.2961	-0.2961	2.5096

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	82.63541	104.17405	0.793	0.428
Data_set	-0.04257	0.05181	-0.822	0.411

3.1.3 Research

Call:

```
glm(formula = Research ~ Data_set, family = binomial(link = "logit"),  
     data = comnon_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2078	-0.2078	-0.1801	-0.1801	2.8740

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	78.91808	167.39904	0.471	0.637
Data_set	-0.04123	0.08326	-0.495	0.620

3.2 Locals Feeling Marginalized

Call:

```
glm(formula = Locals_Marginalized ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.5467	-0.5467	-0.3877	-0.3877	2.2916

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	206.10723	75.80783	2.719	0.00655 **
Data_set	-0.10360	0.03772	-2.747	0.00601 **

3.2.1 Lack of Traditional Knowledge

Call:

```
glm(formula = Lack_of_Traditional_Knowledge ~ Data_set, family = binomial(link = "logit"),
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.2954	-0.2954	-0.2557	-0.2557	2.6217

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	81.23196	119.51631	0.680	0.497
Data_set	-0.04202	0.05945	-0.707	0.480

3.2.2 Displace Locals

Call:

```
glm(formula = Displace_Locals ~ Data_set, family = binomial(link = "logit"),  
     data = common_cnt)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.4226	-0.4226	-0.2961	-0.2961	2.5096

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	208.11303	95.59061	2.177	0.0295 *
Data_set	-0.10487	0.04756	-2.205	0.0274 *