

## **Contenu**

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	<b>var</b>	<b>modas</b>	<b>gamma</b>
<b>1</b>		(Intercept)	6.526
<b>2</b>	DIESEL	N	0.542
<b>3</b>	DIESEL	O	1.000
<b>4</b>	PUISS	CV1	1.000
<b>5</b>	PUISS	CV2	1.594
<b>6</b>	PUISS	CV3	2.536
<b>7</b>	AGESOUS	AGE1	1.000
<b>8</b>	AGESOUS	AGE2	1.539
<b>9</b>	AGESOUS	AGE3	1.976
<b>10</b>	AGESOUS	AGE4	2.319
<b>11</b>	AGESOUS	AGE5	2.683

# Modèle de Fréquence

NBSIN ~ DIESEL + PUISS + AGESOUS + offset(LEXP)

Single term deletions

Model:

NBSIN ~ DIESEL + PUISS + AGESOUS + offset(LEXP)

	Df	Deviance	AIC	LRT	Pr(Chi)	
<none>		11767	18077			
DIESEL	1	11818	18125	50	1.2e-12	***
PUISS	2	11854	18159	87	< 2e-16	***
AGESOUS	4	12150	18451	382	< 2e-16	***

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

```
Call:
glm(formula = paste("NBSIN", paste(var_names, collapse = " + "),
  sep = " ~ "), family = poisson(link = "log"), data = X_base)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-1.557	-0.834	-0.515	-0.250	4.926

Coefficients:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	-4.8550	0.0512	-94.82	< 2e-16	***
DIESELN	-0.3291	0.0482	-6.83	8.7e-12	***
PUISS CV2	0.2992	0.0326	9.17	< 2e-16	***
PUISS CV3	0.2511	0.0829	3.03	0.0025	**
AGESOUS AGE2	0.4313	0.0596	7.24	4.6e-13	***
AGESOUS AGE3	0.6811	0.0579	11.75	< 2e-16	***
AGESOUS AGE4	0.8413	0.0571	14.73	< 2e-16	***
AGESOUS AGE5	0.9870	0.0598	16.52	< 2e-16	***

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

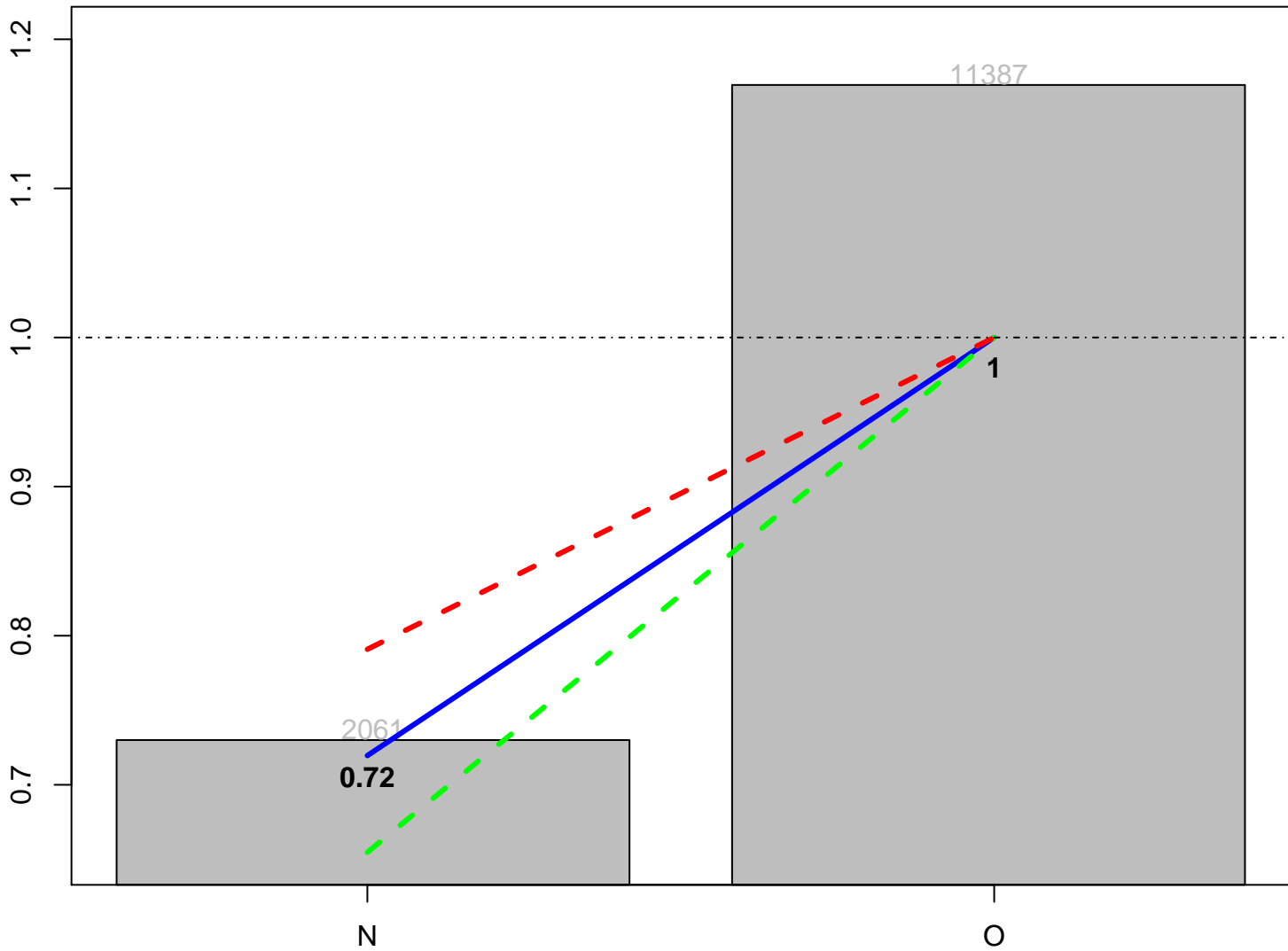
(Dispersion parameter for poisson family taken to be 1)

Null deviance: 12331 on 13447 degrees of freedom  
Residual deviance: 11767 on 13440 degrees of freedom  
AIC: 18077

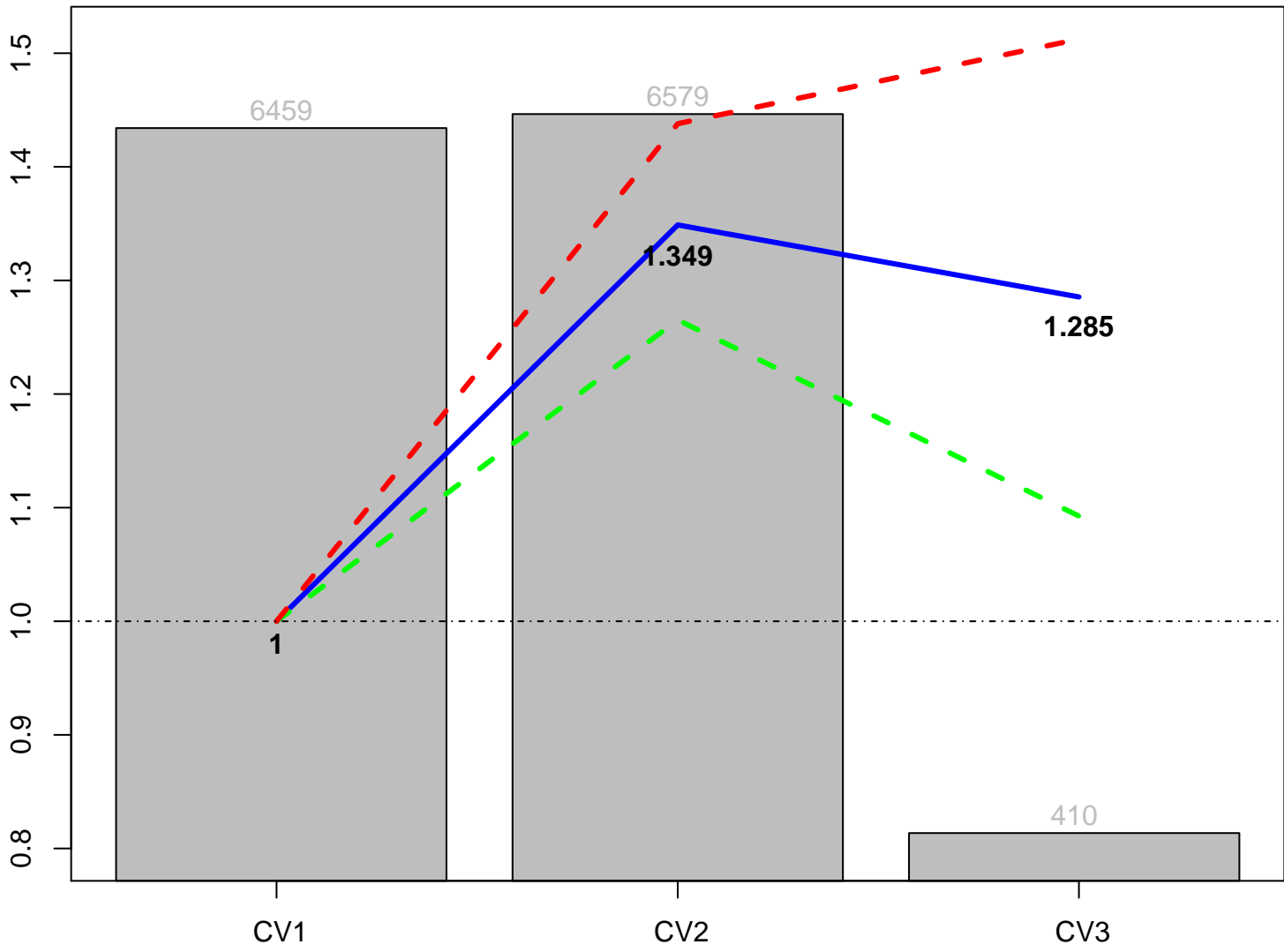
Number of Fisher Scoring iterations: 6

var	modas	gamma	gamma_min	gamma_max
	(Intercept)	0.008	0.007	0.009
DIESEL	N	0.720	0.655	0.791
DIESEL	O	1.000	1.000	1.000
PUISS	CV1	1.000	1.000	1.000
PUISS	CV2	1.349	1.265	1.438
PUISS	CV3	1.285	1.093	1.512
AGESOUS	AGE1	1.000	1.000	1.000
AGESOUS	AGE2	1.539	1.370	1.730
AGESOUS	AGE3	1.976	1.764	2.214
AGESOUS	AGE4	2.319	2.074	2.594
AGESOUS	AGE5	2.683	2.387	3.017

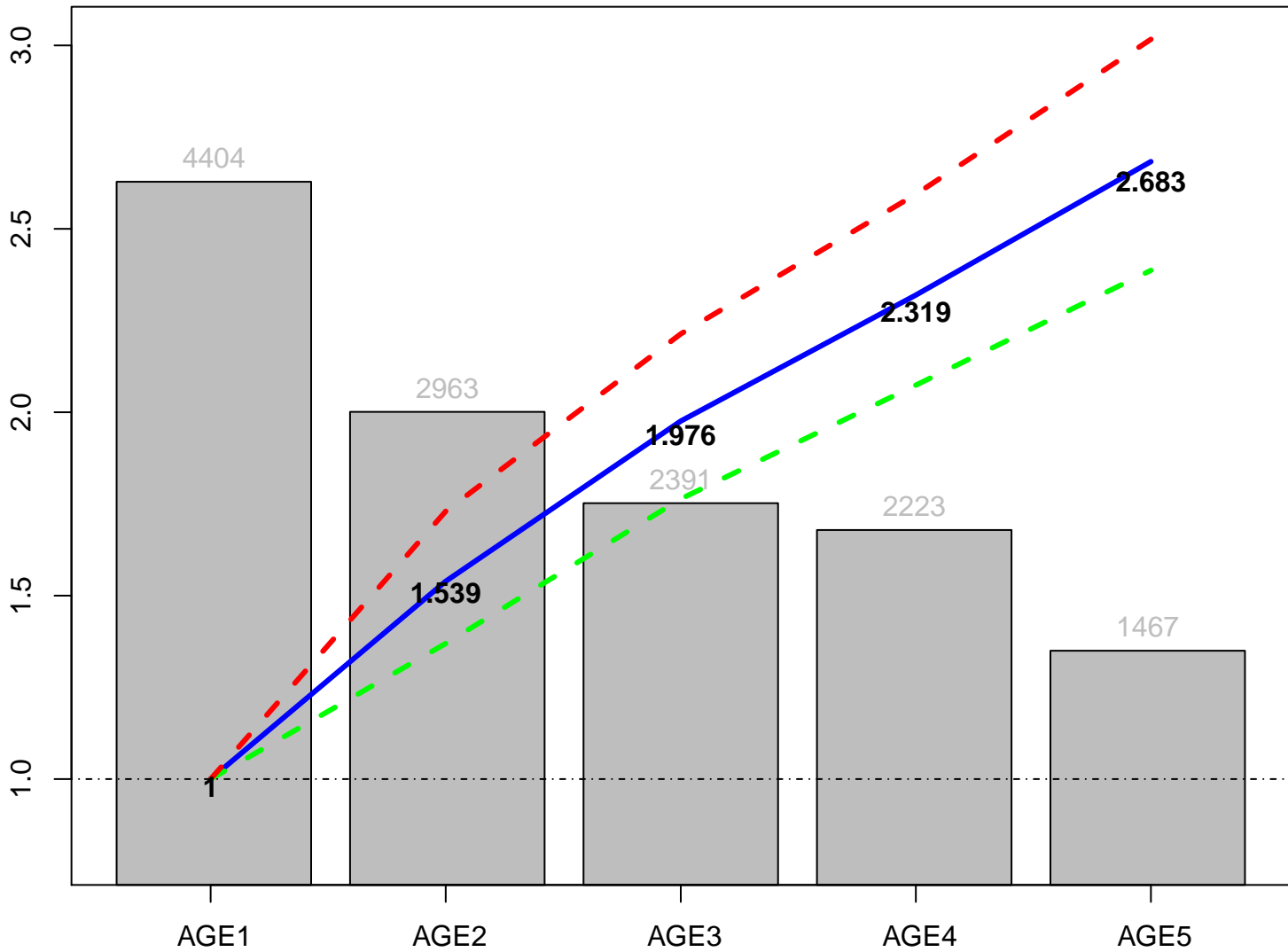
# DIESEL



# PUISS



# AGESOUS





# Modèle de Coût Moyen

COUTSIN/NBSIN ~ DIESEL + PUISS

Single term deletions

Model:

COUTSIN/NBSIN ~ DIESEL + PUISS

	Df	Deviance	AIC	F value	Pr(F)
<none>		2370	64519		
DIESEL	1	2402	64543	38.3	7.1e-10 ***
PUISS	2	2457	64584	51.3	< 2e-16 ***

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

Call:

```
glm(formula = paste("COUTSIN/NBSIN", paste(var_names, collapse = " + ")),  
     sep = " ~ "), family = Gamma(link = "log"), data = X_base,  
     weights = NBSIN)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-2.641	-0.821	-0.335	0.224	4.256

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )	
(Intercept)	6.7308	0.0292	230.63	< 2e-16	***
DIESELN	-0.2838	0.0537	-5.28	1.4e-07	***
PUISS CV2	0.1670	0.0363	4.60	4.3e-06	***
PUISS CV3	0.6794	0.0926	7.34	2.8e-13	***

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

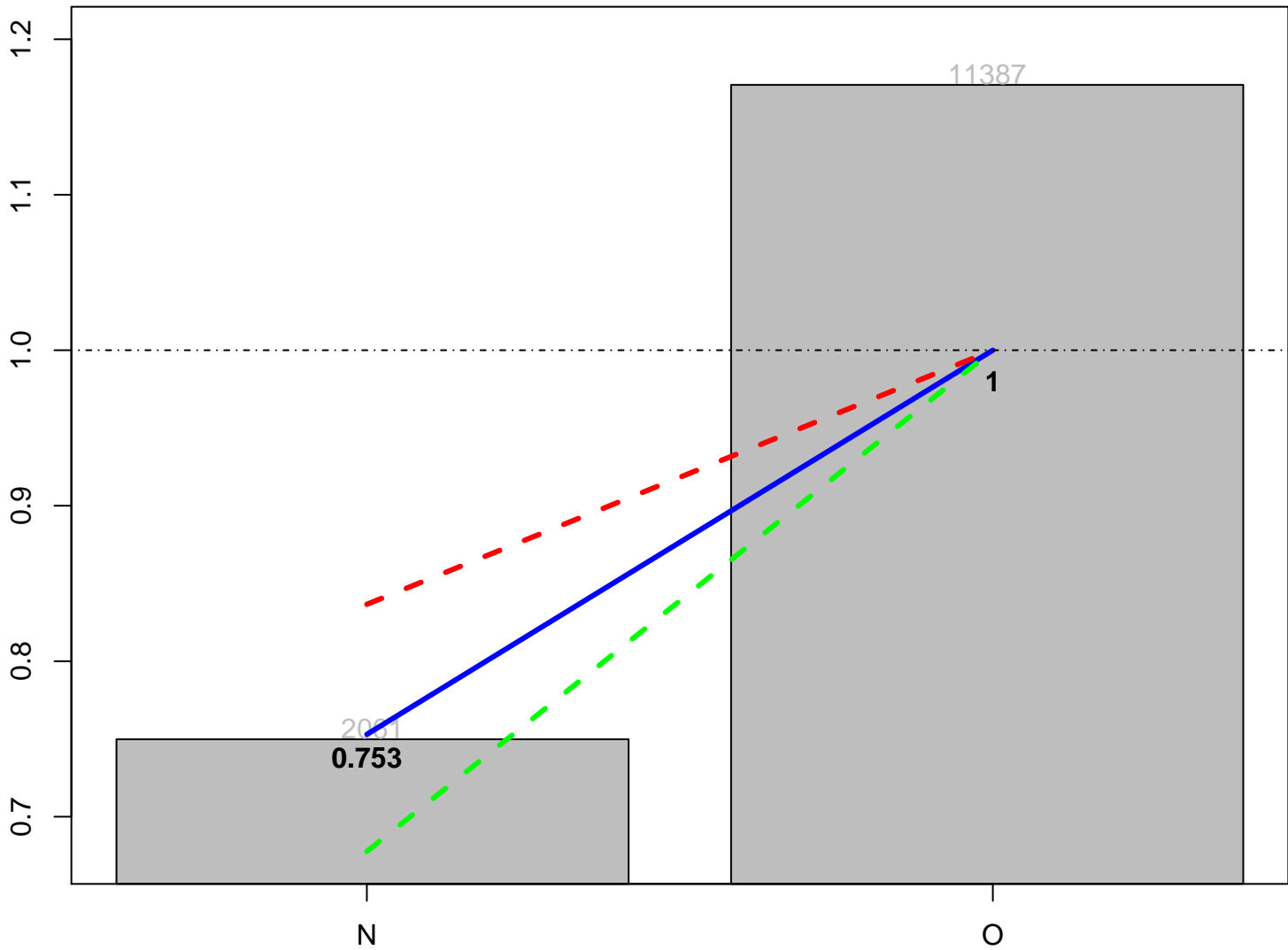
(Dispersion parameter for Gamma family taken to be 1.25)

Null deviance: 2479.7 on 2787 degrees of freedom  
Residual deviance: 2369.8 on 2784 degrees of freedom  
(10660 observations deleted due to missingness)  
AIC: 64519

Number of Fisher Scoring iterations: 5

var	modas	gamma	gamma_min	gamma_max
	( Intercept )	837.783	791.206	887.101
DIESEL	N	0.753	0.678	0.837
DIESEL	O	1.000	1.000	1.000
PUISS	CV1	1.000	1.000	1.000
PUISS	CV2	1.182	1.101	1.269
PUISS	CV3	1.973	1.645	2.365

# DIESEL



# PUISS

