

Anexo 5: Resultado modelo estadístico
Monitoreo Contenido de Humedad del Suelo 2018

Plan de Seguimiento Ambiental Biótico
Proyecto Cambios y Mejoras en la Operación
Minera del Salar de Atacama
Región de Antofagasta

Preparado para
SQM Salar
geob.SQM512.ANX.5.Rev0
Marzo 2020

geobiota



Contenido

1. Resultado del modelo estadístico.....	3
--	---

Figuras

Figura 1-1. Modelo multinivel.....	4
------------------------------------	---

1. RESULTADO DEL MODELO ESTADISTICO

Se presentan los resultados generados para la evaluación de vigor-contenido de humedad y vigor-profundidad de la napa. (Figura 1-1)

```
. meologit vigor profundidad humedad|| year :
```

Fitting fixed-effects model:

```
Iteration 0:   log likelihood = -6696.4439
Iteration 1:   log likelihood = -6689.2586
Iteration 2:   log likelihood = -6689.2563
Iteration 3:   log likelihood = -6689.2563
```

Refining starting values:

```
Grid node 0:   log likelihood = -6640.2192
```

Fitting full model:

```
Iteration 0:   log likelihood = -6640.2192 (not concave)
Iteration 1:   log likelihood = -6633.6703 (not concave)
Iteration 2:   log likelihood = -6631.9325
Iteration 3:   log likelihood = -6630.2467
Iteration 4:   log likelihood = -6630.2461
```

```
Mixed-effects ologit regression          Number of obs   =       6,309
Group variable:          year           Number of groups =        12
```

```
Obs per group:
           min =        219
           avg =       525.8
           max =        569
```

```
Integration method: mvaghermite          Integration pts. =         7
```

```
Wald chi2(2)           =         4.79
Prob > chi2            =        0.0914
Log likelihood = -6630.2461
```

	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
vigor					
profundidad	-.0000178	.0000118	-1.52	0.130	-.0000409 5.22e-06
humedad	.001718	.0011201	1.53	0.125	-.0004774 .0039134

```

-----+-----
      /cut1 |  -.1281386   .0995024   -1.29   0.198   -.3231597   .0668825
      /cut2 |   -.07901   .0994975   -0.79   0.427   -.2740214   .1160015
      /cut3 |   .2493357   .0995461    2.50   0.012   .0542289   .4444424
      /cut4 |   3.679765   .1263781   29.12   0.000   3.432068   3.927461
-----+-----
year      |
var(_cons)|   .1011726   .04518                .0421646   .2427607
-----+-----
LR test vs. ologit model:  chibar2(01) = 118.02      Prob >= chibar2 = 0.0000
  
```

Figura 1-1. Modelo multinivel