Pruebas de secado

Tabla descriptiva

##	# /	A tibble:	14	x 5				
##	# (Groups:	Ten	perati	ıra	[2]		
##		Temperati	ıra	Hora		n	Mean	sd
##		<fct></fct>		<fct></fct>	<in< th=""><th>t></th><th><dbl></dbl></th><th><dbl></dbl></th></in<>	t>	<dbl></dbl>	<dbl></dbl>
##	1	60		0		3	20.4	0.246
##	2	60		1		3	14.0	1.31
##	3	60		2		3	12.5	1.34
##	4	60		3		3	10.5	1.56
##	5	60		4		3	8.48	1.74
##	6	60		5		3	6.69	1.75
##	7	60		6		3	4.97	1.59
##	8	60		7		3	2.52	0.482
##	9	80		0		3	19.7	0.401
##	10	80		1		3	12.7	0.572
##	11	80		2		3	9.37	0.804
##	12	80		3		3	5.61	0.810
##	13	80		4		3	2.88	0.336
##	14	80		5		3	2.08	0.124

Gráfico de medias con desvío estándar

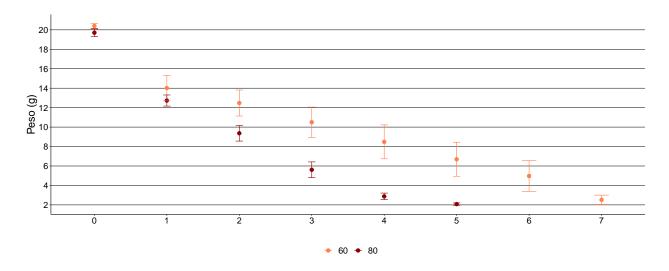
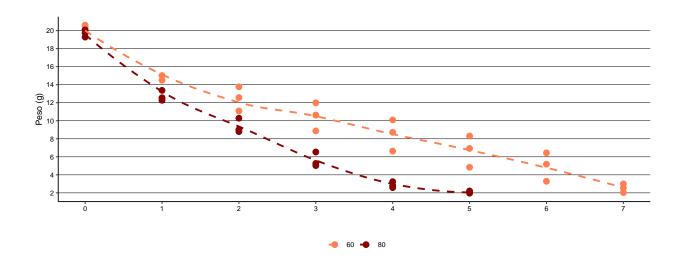


Gráfico de líneas de tendencia medias y valores puntuales



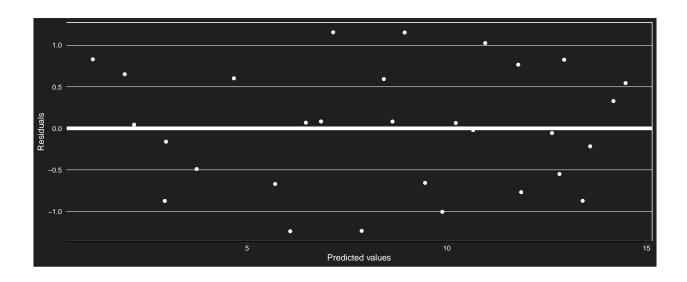
Correlación de cada unidad observacional en el tiempo Matriz de covarianzas

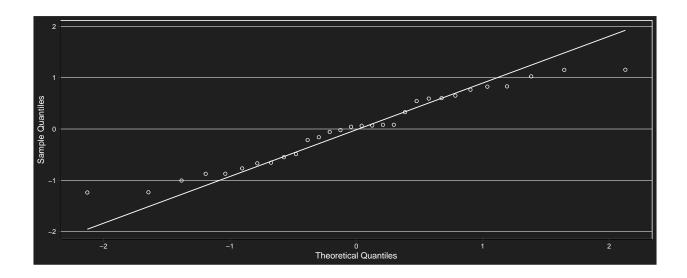
```
## 0 0.24 0.46 0.88 1.28 1.40 1.15
## 1 0.46 1.32 2.06 2.86 3.12 2.67
## 2 0.88 2.06 3.88 5.66 6.26 5.23
## 3 1.28 2.86 5.66 8.41 9.40 7.84
## 4 1.40 3.12 6.26 9.40 10.69 8.98
## 5 1.15 2.67 5.23 7.84 8.98 7.61
```

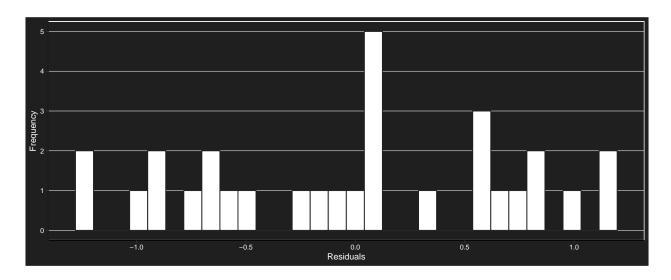
 Modelo marginal. Estructura autoregresiva de orden 1

```
## gls(model = (Peso) ~ Hora * Temperatura + basal, data = datospeso2w,
## correlation = corAR1(form = ~1 | Repeticion))
```

Comprobación de supuestos







```
##
## Shapiro-Wilk normality test
##
## data: e
## W = 0.9558226, p-value = 0.241377
```

Coeficientes del modelo

```
##
           (Intercept)
                                     Hora2
                                                          Hora3
                                                                               Hora4
##
         -31.996552210
                              -1.539666667
                                                   -3.514333333
                                                                        -5.533000000
                 Hora5
                             Temperatura80
                                                          basal Hora2:Temperatura80
##
          -7.323000000
                                0.298694977
                                                    2.255026084
                                                                        -1.825333333
##
## Hora3:Temperatura80 Hora4:Temperatura80 Hora5:Temperatura80
          -3.605333333
                               -4.321000000
                                                   -3.329333333
##
```

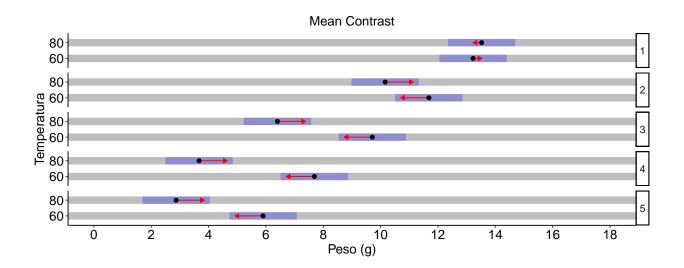
ANOVA

```
## Denom. DF: 19
##
                   numDF
                             F-value p-value
## (Intercept)
                        1 3275.92959 <.0001
                        4 124.49491 <.0001
## Hora
## Temperatura
                        1
                           120.00027
                                     <.0001
## basal
                            13.07197 0.0018
                        1
## Hora:Temperatura
                             4.95217 0.0066
Efectos simples
## $emmeans
## Hora = 1:
   Temperatura
                                     SE
                                           df
                                                 lower.CL
                                                             upper.CL
                     emmean
                13.22348584 0.557653114 17.24 12.04818823 14.39878346
##
##
                13.52218082 0.557653114 17.24 12.34688321 14.69747843
##
## Hora = 2:
   Temperatura
                                           df
                                                 lower.CL
                                     SF.
                                                             upper.CL
                     emmean
               11.68381918 0.557653114 17.24 10.50852157 12.85911679
               10.15718082 0.557653114 17.24 8.98188321 11.33247843
##
##
## Hora = 3:
   Temperatura
                                     SE
                                           df
                                                 lower.CL
                     emmean
                                                             upper.CL
                 9.70915251 0.557653114 17.24 8.53385490 10.88445012
##
                 6.40251416 0.557653114 17.24 5.22721654 7.57781177
##
##
## Hora = 4:
   Temperatura
                     emmean
                                     SE
                                           df
                                                 lower.CL
                                                             upper.CL
##
                 7.69048584 0.557653114 17.24 6.51518823 8.86578346
   60
                 3.66818082 0.557653114 17.24 2.49288321
##
   80
##
## Hora = 5:
  Temperatura
                                     SE
                                           df
                                                 lower.CL
                                                             upper.CL
                     emmean
                 5.90048584 0.557653114 17.24 4.72518823 7.07578346
                 2.86984749 0.557653114 17.24 1.69454988 4.04514510
##
   80
## Degrees-of-freedom method: appx-satterthwaite
## Results are given on the ( (not the response) scale.
## Confidence level used: 0.95
##
## $contrasts
## Hora = 1:
##
                                     estimate
                                                       SE df t.ratio p.value
   Temperatura60 - Temperatura80 -0.29869498 0.877104027 9.7 -0.341 0.7407
##
## Hora = 2:
                                     estimate
                                                       SE df t.ratio p.value
##
  Temperatura60 - Temperatura80 1.52663836 0.877104027 9.7
                                                                1.741 0.1133
##
## Hora = 3:
## contrast
                                                       SE df t.ratio p.value
                                     estimate
                                                                3.770 0.0039
  Temperatura60 - Temperatura80 3.30663836 0.877104027 9.7
```

Hora = 4:

```
contrast
                                      estimate
                                                        SE df t.ratio p.value
##
##
    Temperatura60 - Temperatura80 4.02230502 0.877104027 9.7
                                                                 4.586 0.0011
##
## Hora = 5:
                                                        SE df t.ratio p.value
##
    contrast
                                      estimate
   Temperatura60 - Temperatura80 3.03063836 0.877104027 9.7
                                                                 3.455 0.0064
##
\mbox{\tt \#\#} Note: contrasts are still on the ( scale
## Degrees-of-freedom method: appx-satterthwaite
```

Gráfico de comparaciones



Modelo

