

Call:
lm(formula = y.lm ~ x.lm)

Residuals:

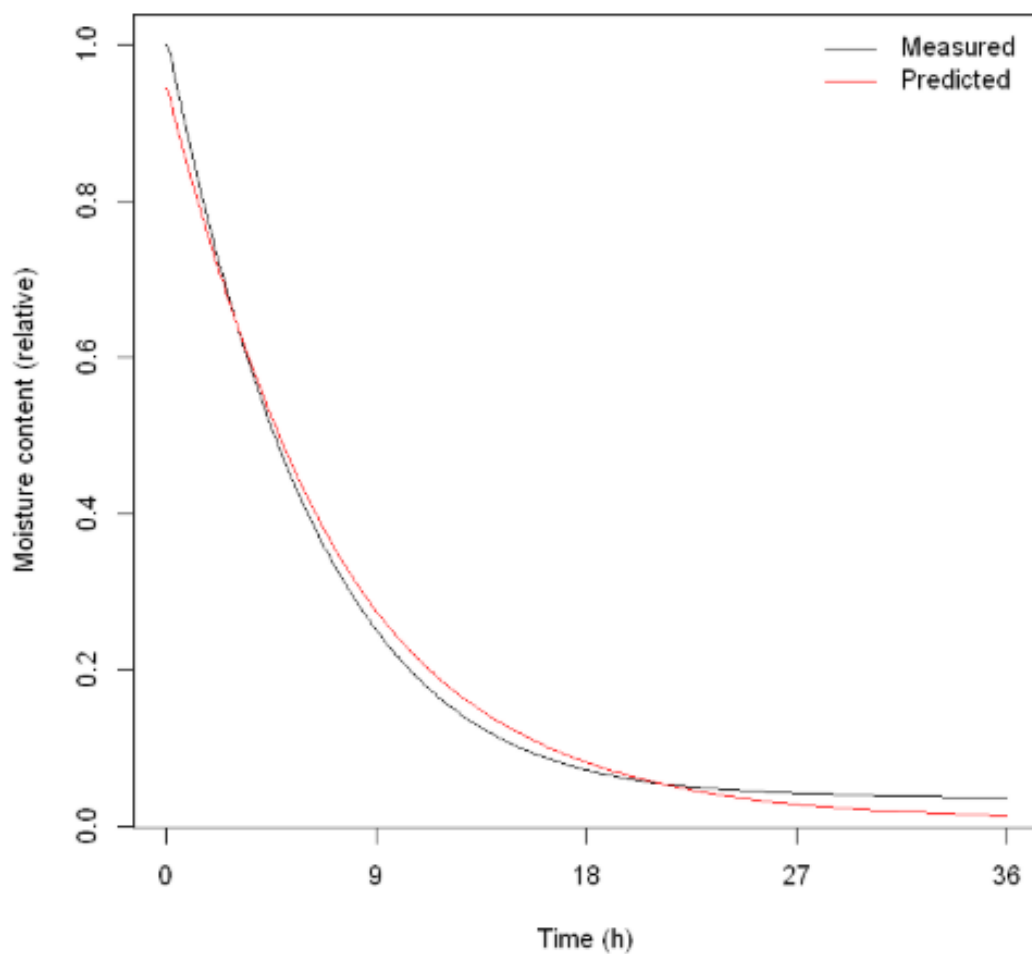
Min	1Q	Median	3Q	Max
-0.02520	-0.01934	-0.00067	0.01718	0.05659

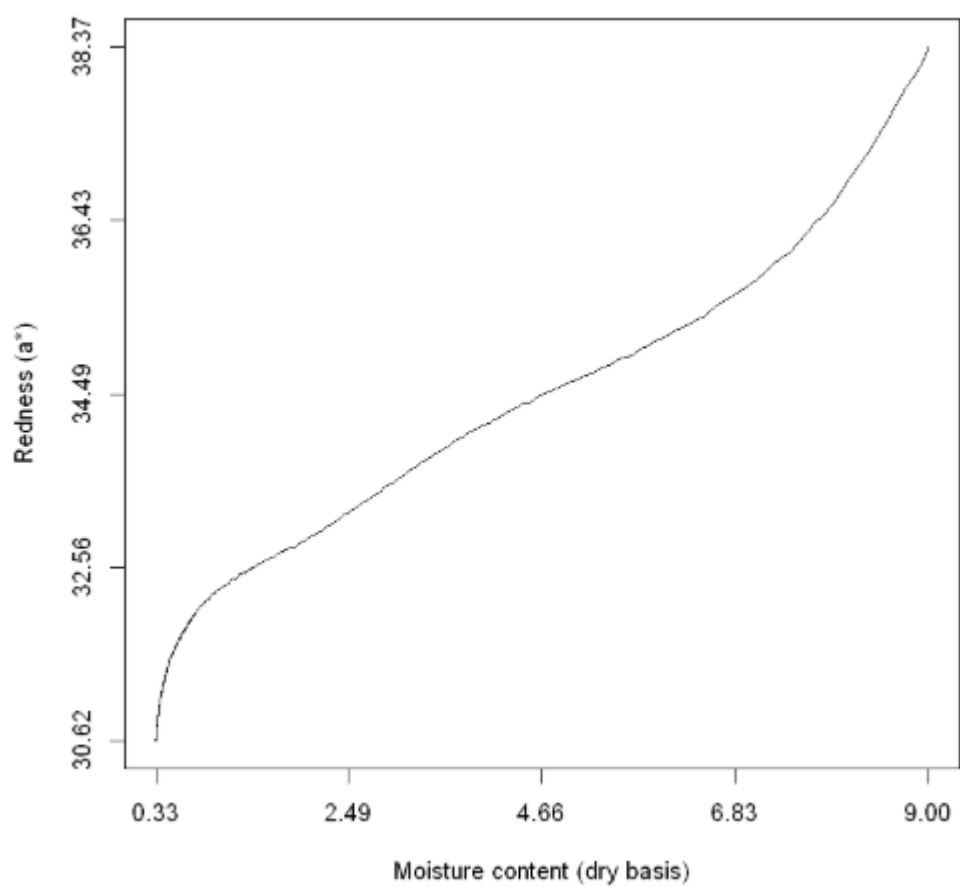
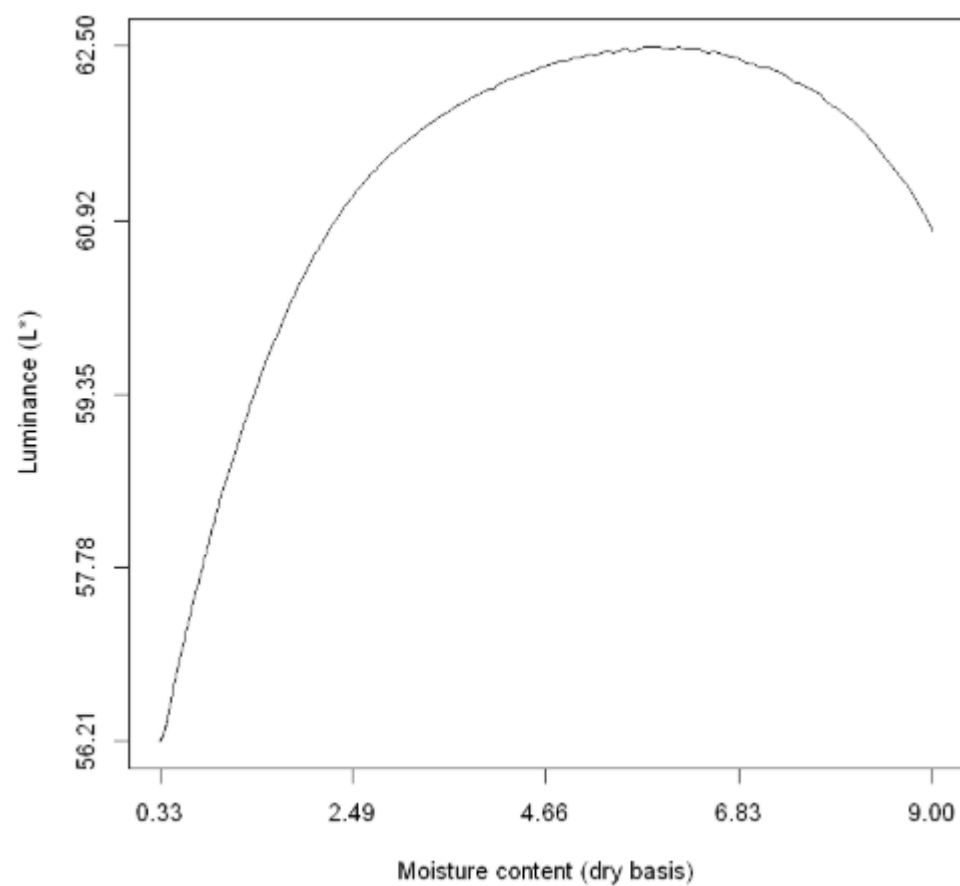
Coefficients:

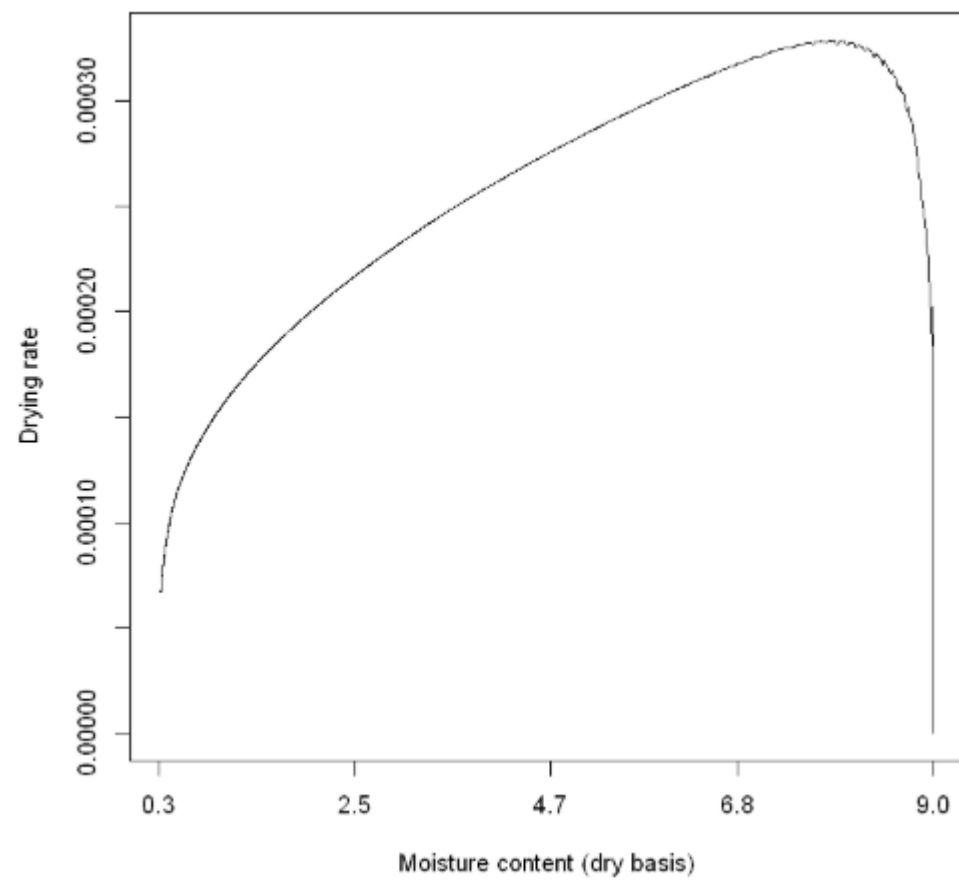
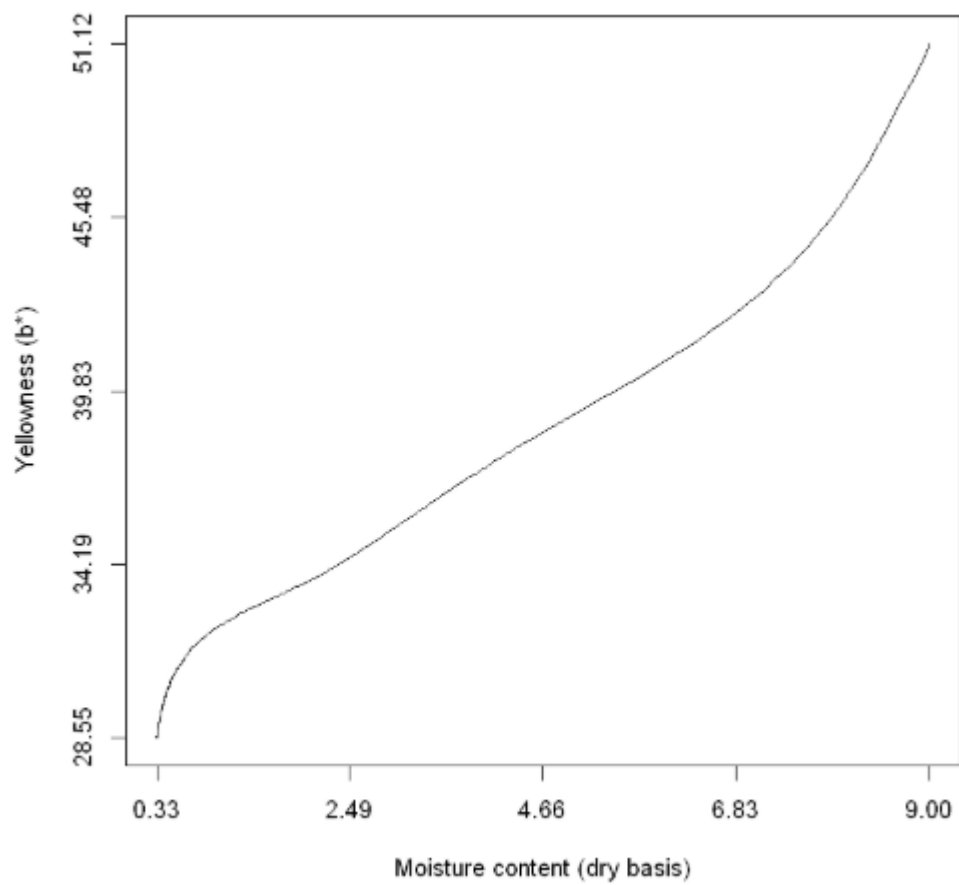
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.342460	0.002304	-148.7	<2e-16 ***
x.lm	1.286694	0.005051	254.8	<2e-16 ***

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

Residual standard error: 0.01931 on 431 degrees of freedom
Multiple R-squared: 0.9934, Adjusted R-squared: 0.9934
F-statistic: 6.49e+04 on 1 and 431 DF, p-value: < 2.2e-16







Regression Model with Segmented Relationship(s)

Call:

```
segmented.lm(obj = fit, seg.Z = ~x.lm, npsi = 1)
```

Estimated Break-Point(s):

```
      Est. St.Err  
psi1.x.lm 0.401  0.002
```

Meaningful coefficients of the linear terms:

```
      Estimate Std. Error t value Pr(>|t|)  
(Intercept) -0.20144    0.00333  -60.49  <2e-16 ***  
x.lm          0.84457    0.01072   78.77  <2e-16 ***  
U1.x.lm       0.56474    0.01109   50.91      NA
```

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

Residual standard error: 0.006007 on 429 degrees of freedom

Multiple R-Squared: 0.9994, Adjusted R-squared: 0.9994

Convergence attained in 4 iter. (rel. change 0)

\$x.lm =

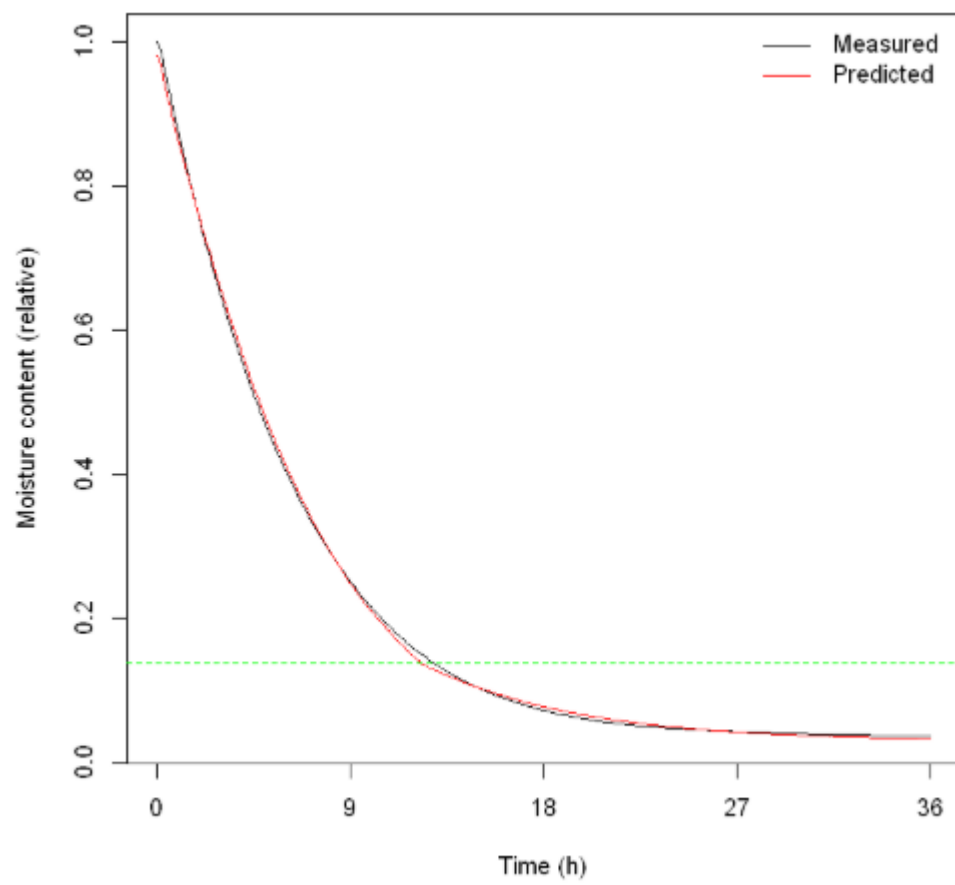
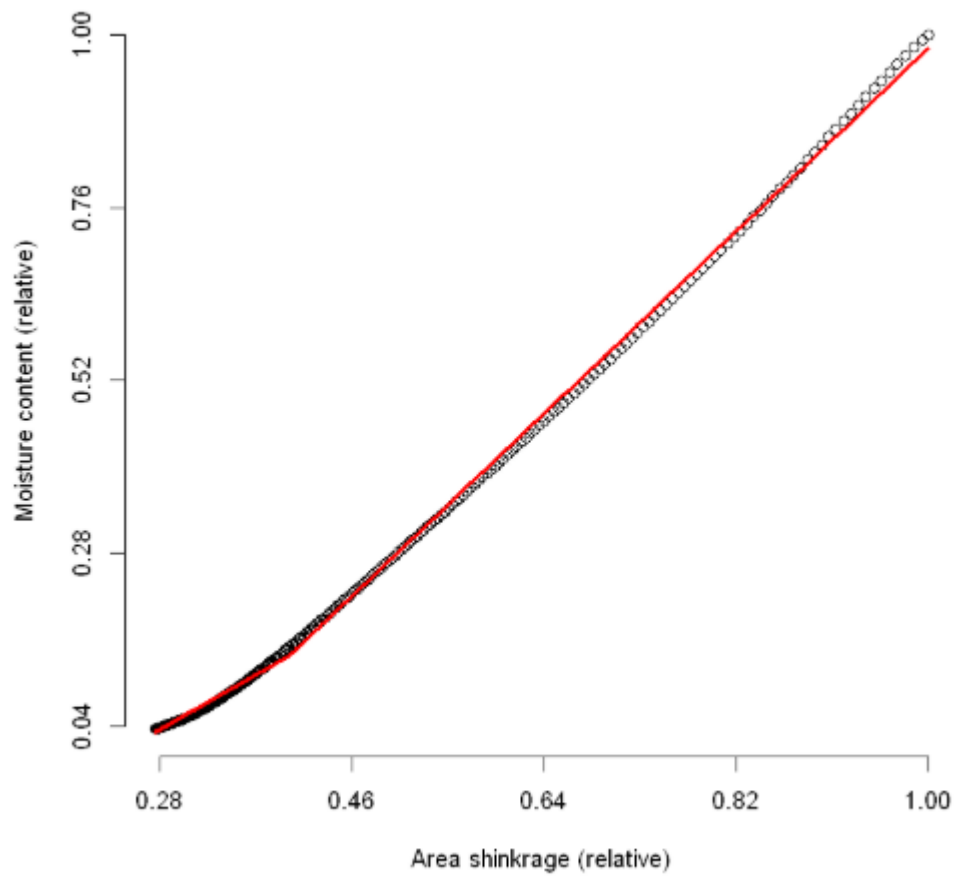
A matrix: 2 × 5 of type dbl

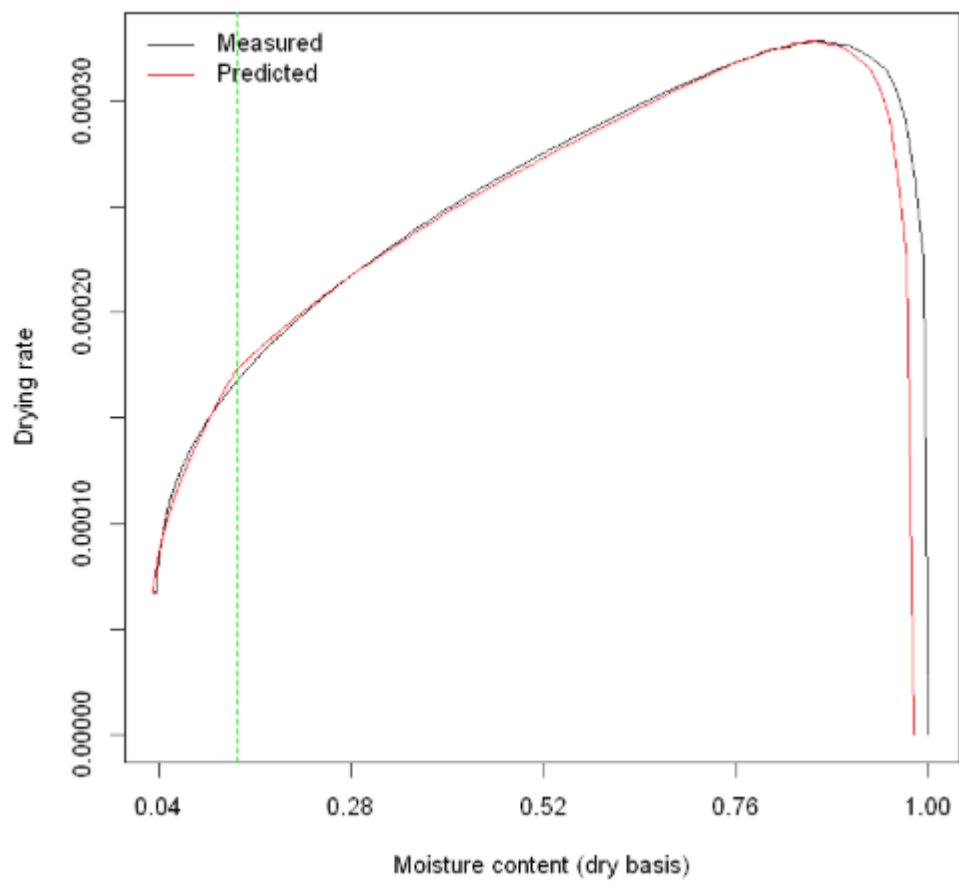
	Est.	St.Err.	t value	CI(95%).l	CI(95%).u
slope1	0.84457	0.0107230	78.765	0.82349	0.86564
slope2	1.40930	0.0028458	495.230	1.40370	1.41490

\$x.lm =

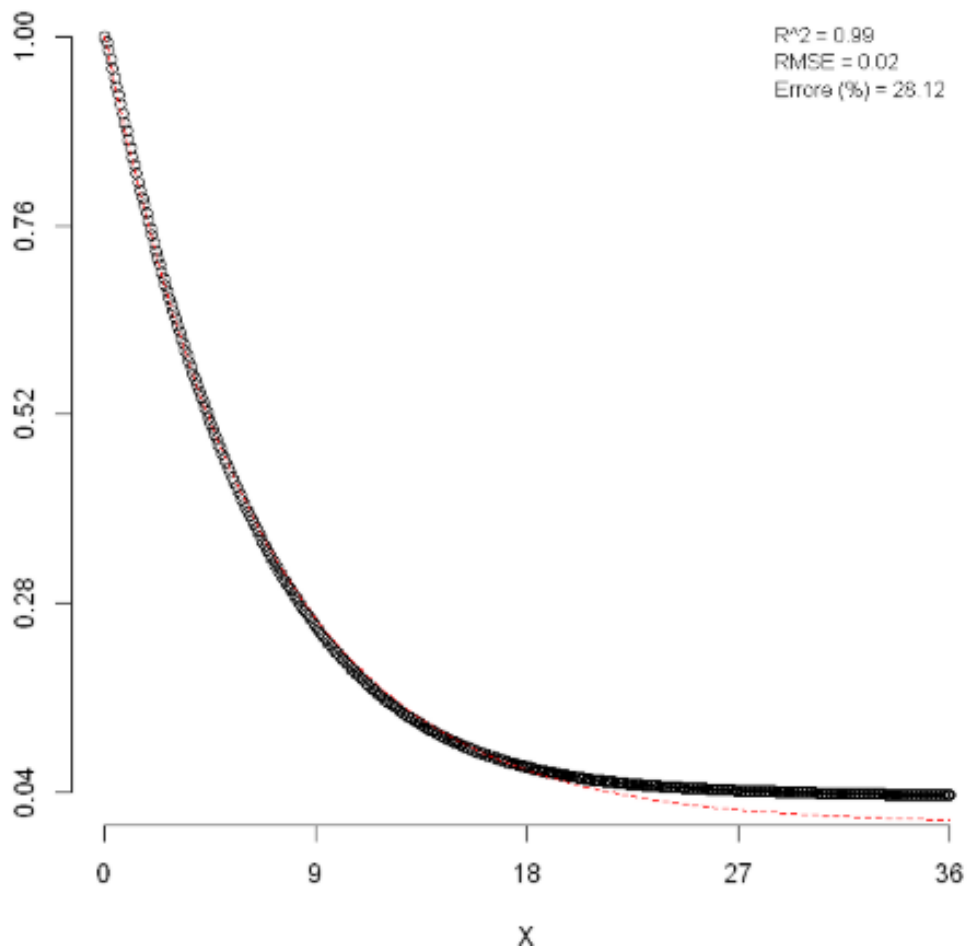
A matrix: 2 × 1 of type dbl

	Est.
intercept1	-0.20144
intercept2	-0.42796





Newton (Lewis) model



Formula: $y \sim \exp(-k * x)$

Parameters:

	Estimate	Std. Error	t value	Pr(> t)
k	0.1495709	0.0005805	257.7	<2e-16 ***

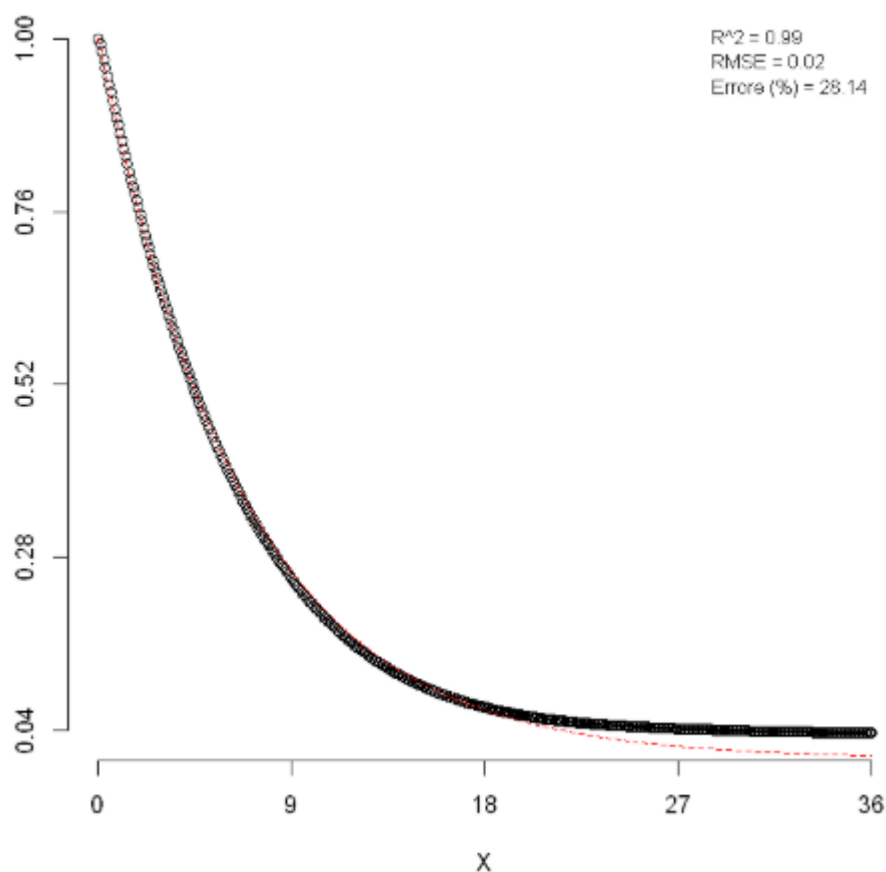
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.01737 on 432 degrees of freedom

Number of iterations to convergence: 8

Achieved convergence tolerance: 1.298e-06

Henderson and Pabis model



Formula: $y \sim a * \exp(-k * x)$

Parameters:

	Estimate	Std. Error	t value	Pr(> t)
a	1.0005305	0.0038376	260.7	<2e-16 ***
k	0.1496533	0.0008174	183.1	<2e-16 ***

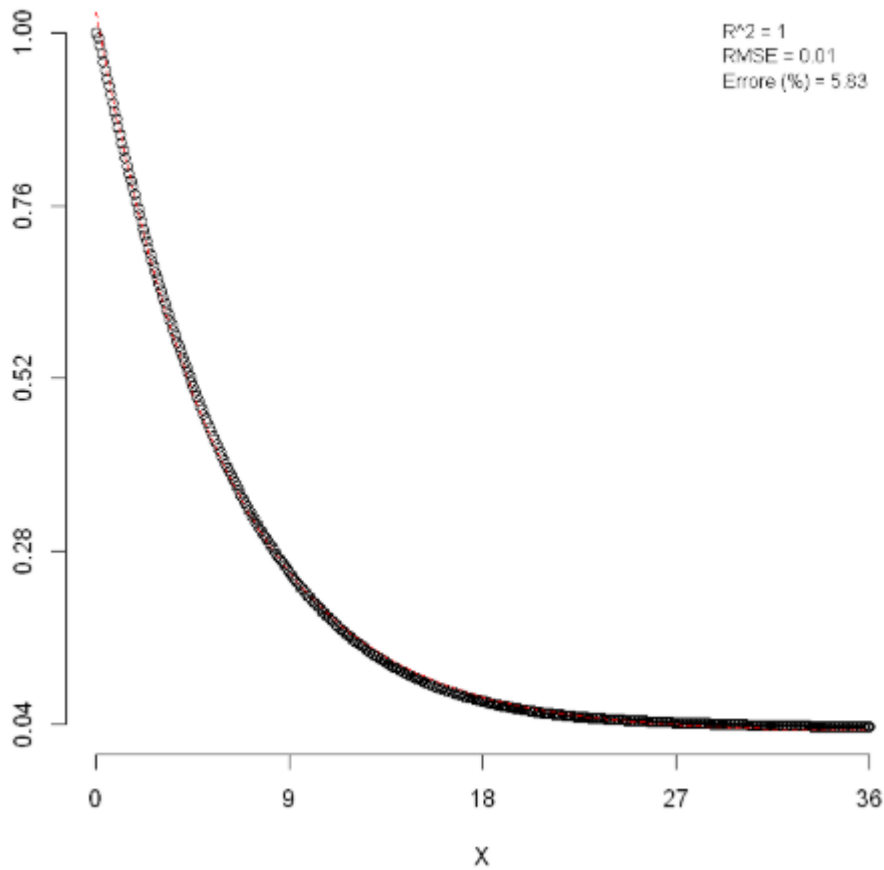
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.01739 on 431 degrees of freedom

Number of iterations to convergence: 5

Achieved convergence tolerance: 1.625e-06

Logarithmic model



Formula: $y \sim a * \exp(-k * x) + c$

Parameters:

	Estimate	Std. Error	t value	Pr(> t)
a	0.9992024	0.0013270	752.96	<2e-16 ***
k	0.1671880	0.0004321	386.90	<2e-16 ***
c	0.0282819	0.0004571	61.87	<2e-16 ***

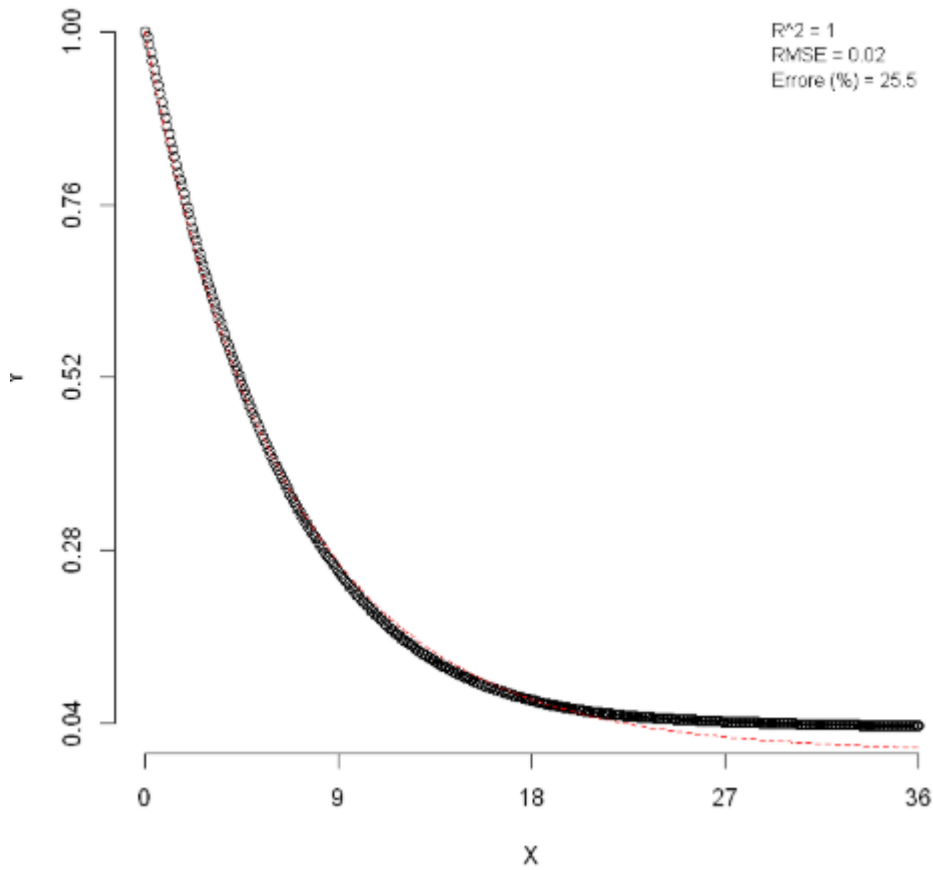
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.005697 on 430 degrees of freedom

Number of iterations to convergence: 6

Achieved convergence tolerance: 7.114e-07

Page model



Formula: $y \sim \exp(-k * x^n)$

Parameters:

	Estimate	Std. Error	t value	Pr(> t)
k	0.161045	0.002060	78.19	<2e-16 ***
n	0.964513	0.005717	168.71	<2e-16 ***

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

Residual standard error: 0.01676 on 431 degrees of freedom

Number of iterations to convergence: 7

Achieved convergence tolerance: 1.926e-06