Medidas dasométricas

Cristian Gañan

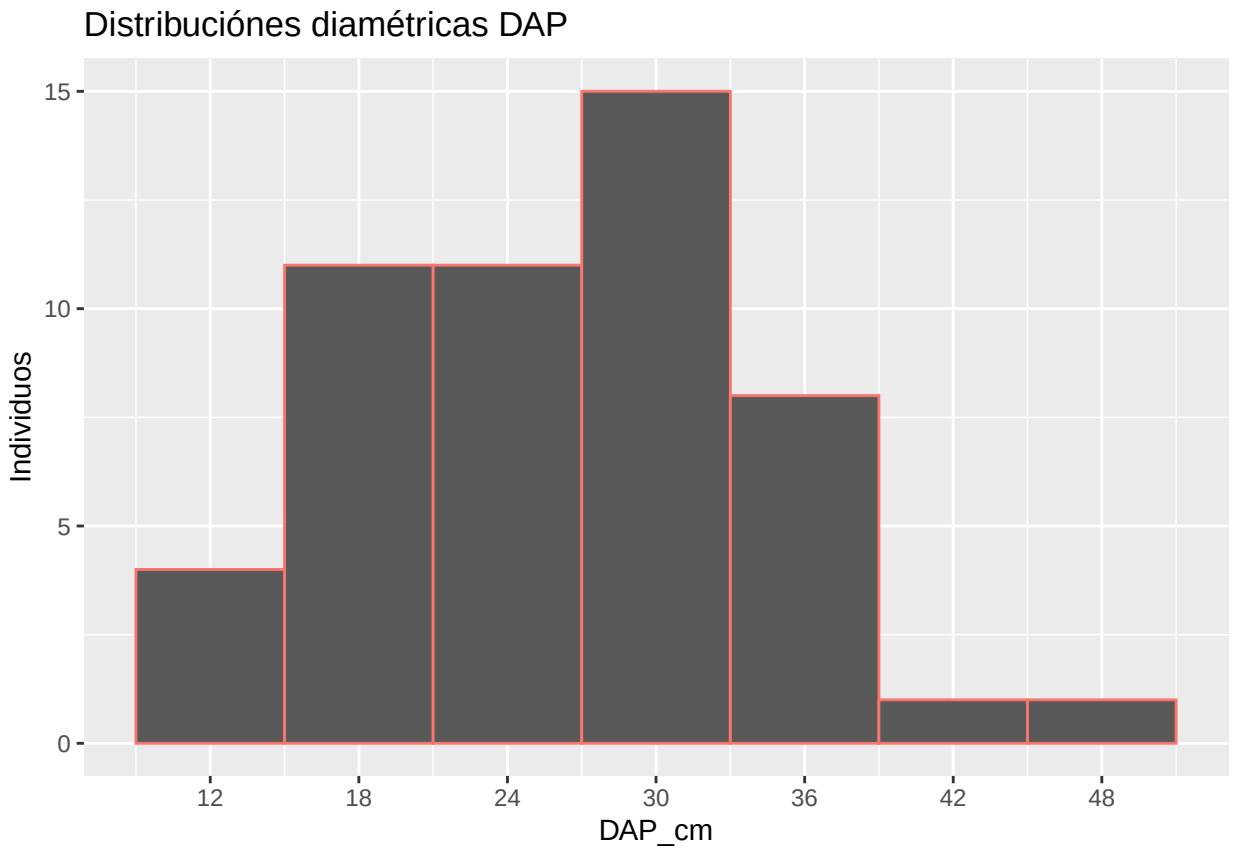
Parcela	DAP_obs	DAP_est	Alt_obs	Alt_est	Error DAP	Error alt
1	25.6	25.90	15.49	14.8	1.1718750	4.4544868
1	34.2	33.50	15.99	15.6	2.0467836	2.4390244
2	20.4	19.80	20.86	19.8	2.9411765	5.0814957
2	14.9	14.55	13.27	12.2	2.3489933	8.0633007
2	20.8	19.85	17.73	17.0	4.5673077	4.1173153
2	28.5	28.60	18.62	19.0	0.3508772	2.0408163
3	24.5	24.30	9.36	8.9	0.8163265	4.9145299
3	18.1	17.95	12.32	11.5	0.8287293	6.6558442
3	35.2	34.05	19.11	19.1	3.2670455	0.0523286
3	27.5	27.15	16.45	15.7	1.2727273	4.5592705
3	17.7	17.60	12.18	11.9	0.5649718	2.2988506
3	19.9	19.65	9.94	9.7	1.2562814	2.4144869
3	26.8	25.90	14.39	13.8	3.3582090	4.1000695
3	21.3	20.80	10.09	9.9	2.3474178	1.8830525
3	19.9	19.55	9.24	9.1	1.7587940	1.5151515
4	31.8	29.35	24.03	23.5	7.7044025	2.2055764
4	34.9	33.95	21.12	20.7	2.7220630	1.9886364
4	31.5	30.15	21.84	21.6	4.2857143	1.0989011
4	28.8	27.45	18.67	18.2	4.6875000	2.5174076
4	33.1	32.60	24.47	23.5	1.5105740	3.9640376

Parcela	DAP_obs	DAP_est	Alt_obs	Alt_est	Error DAP	Error alt
1	29.90000	29.70000	15.74000	15.20000	1.609329	3.446756
2	21.15000	20.70000	17.62000	17.00000	2.552089	4.825732
3	23.43333	22.99444	12.56444	12.17778	1.718945	3.154843
4	32.02000	30.70000	22.02600	21.50000	4.182051	2.354912

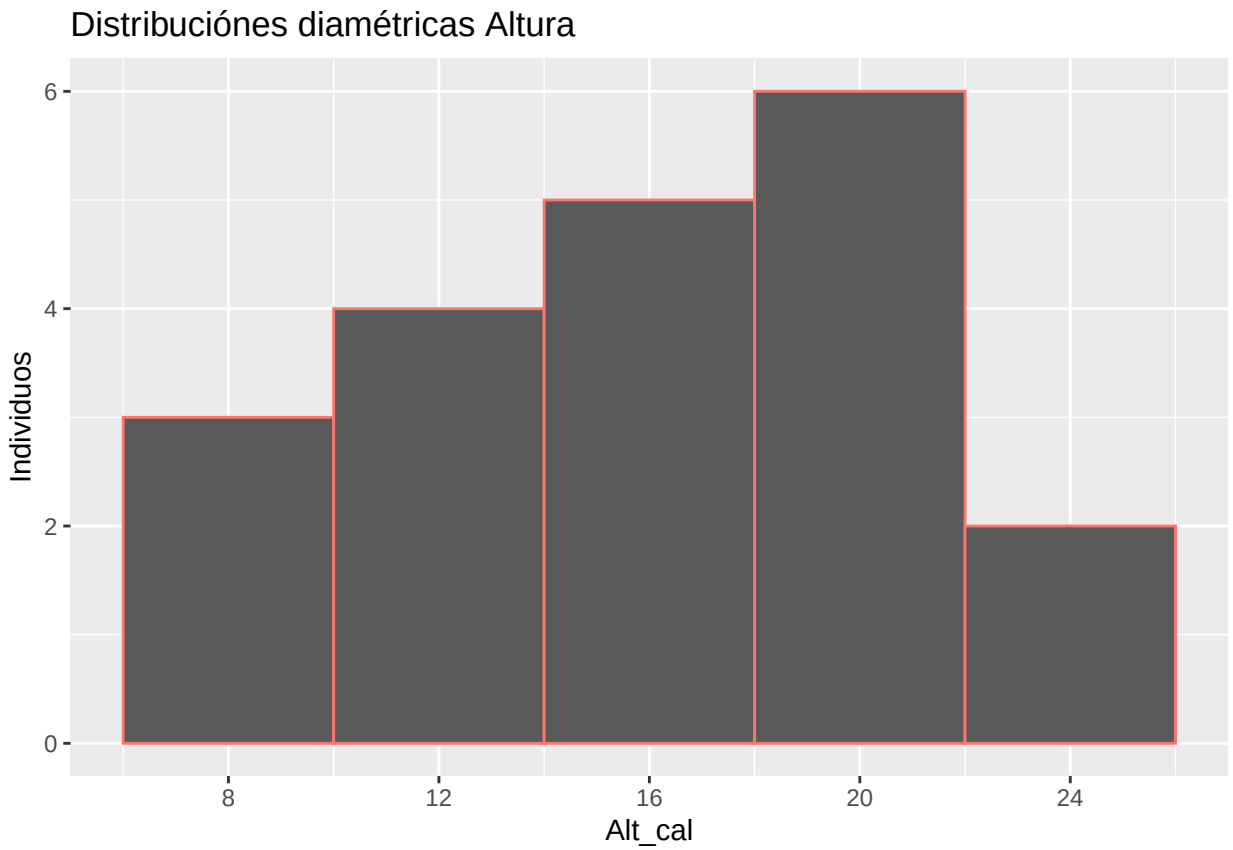
Subparcela	Dcm	Area basal	Area_copa_p	Altura_p
1a	30.20761	14.33352	24.04104	15.74000
2a	21.69712	14.78952	12.47310	17.62000
3a	24.03791	40.84377	14.43867	12.56444
4a	32.08286	40.42091	48.43825	22.02600

Parcela	Dcm	Area basal
1	30.01895	22.64806
2	27.19282	34.84573
3	26.20020	32.34823
4	28.11720	32.28772

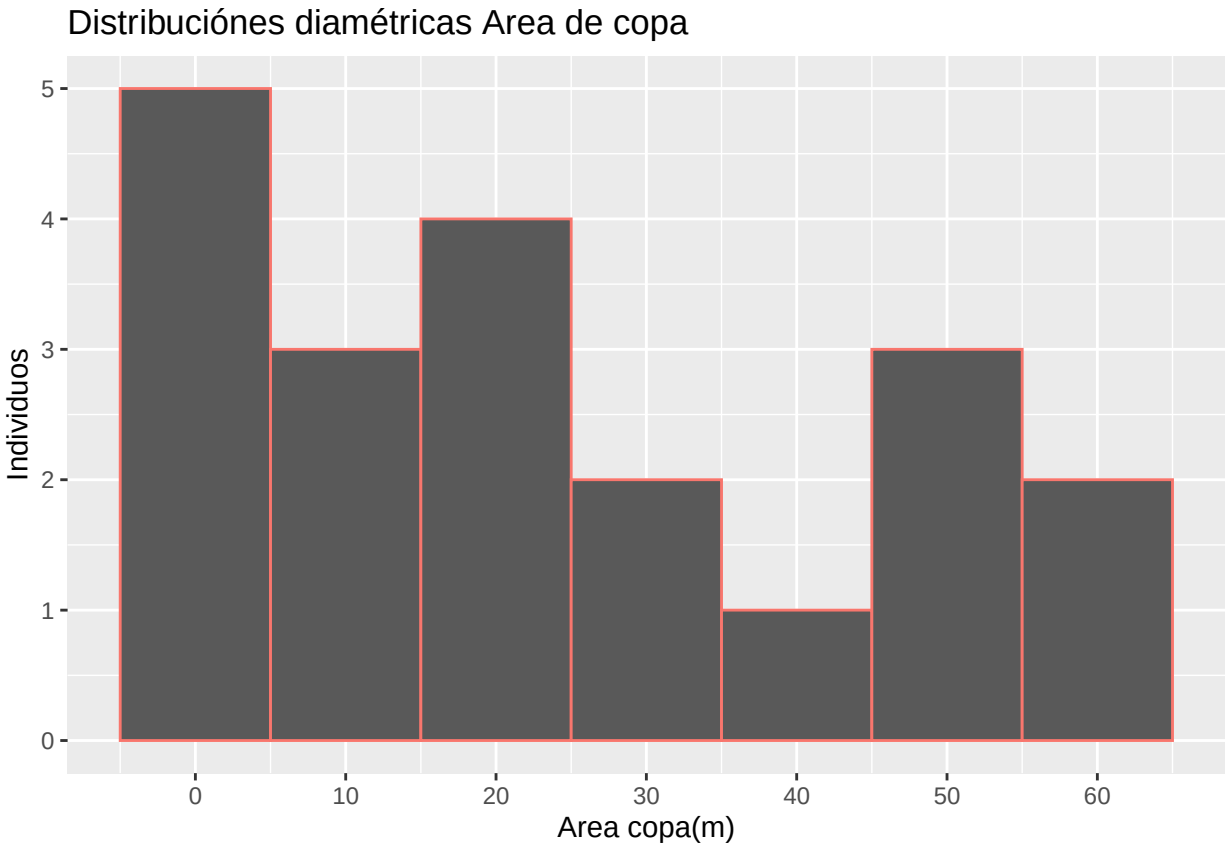
Distribuciónes DAP



distribuciónes alt

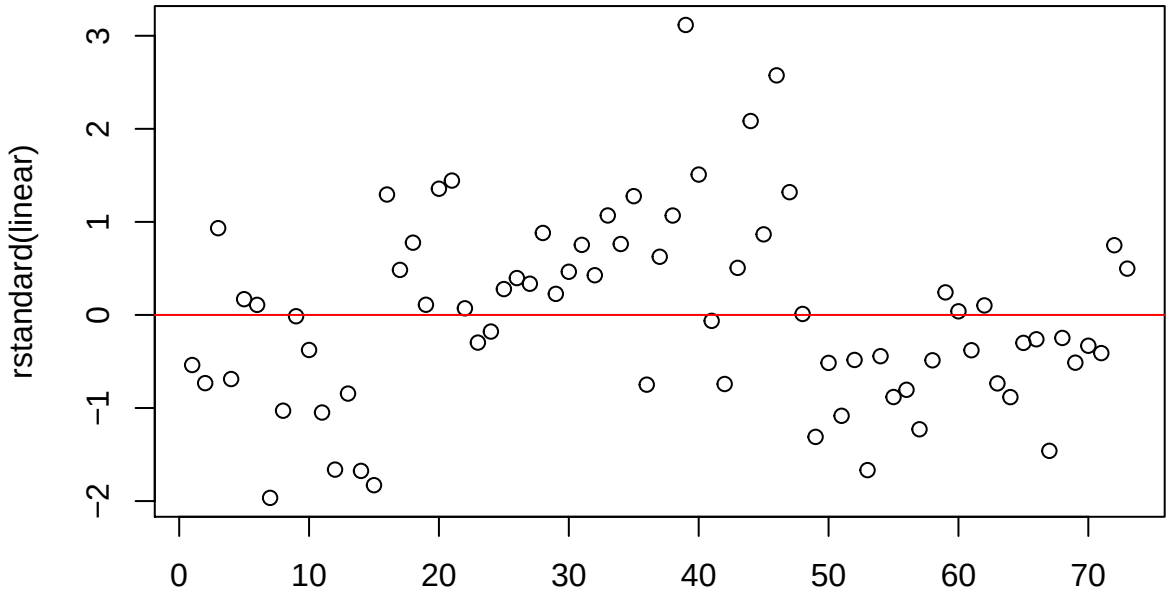


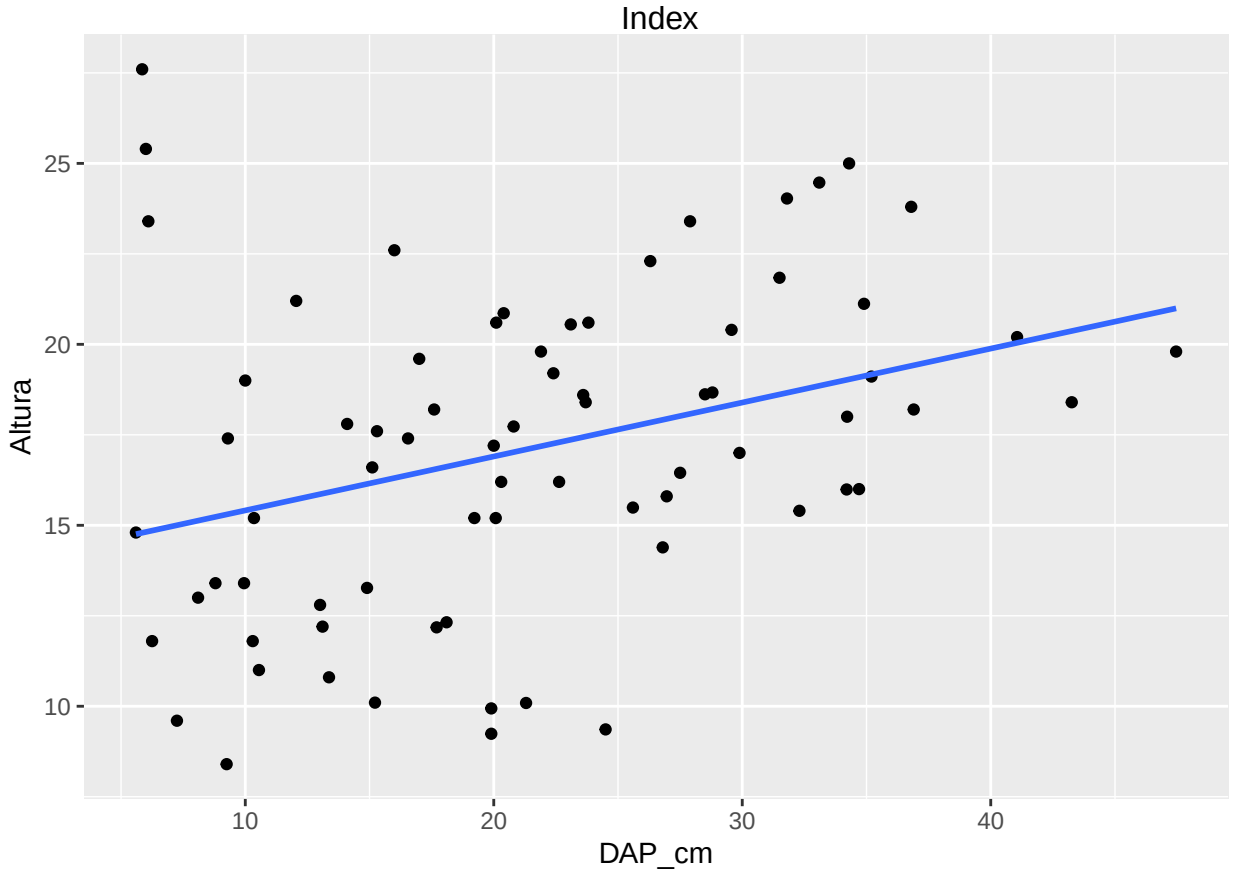
distribuciones copa



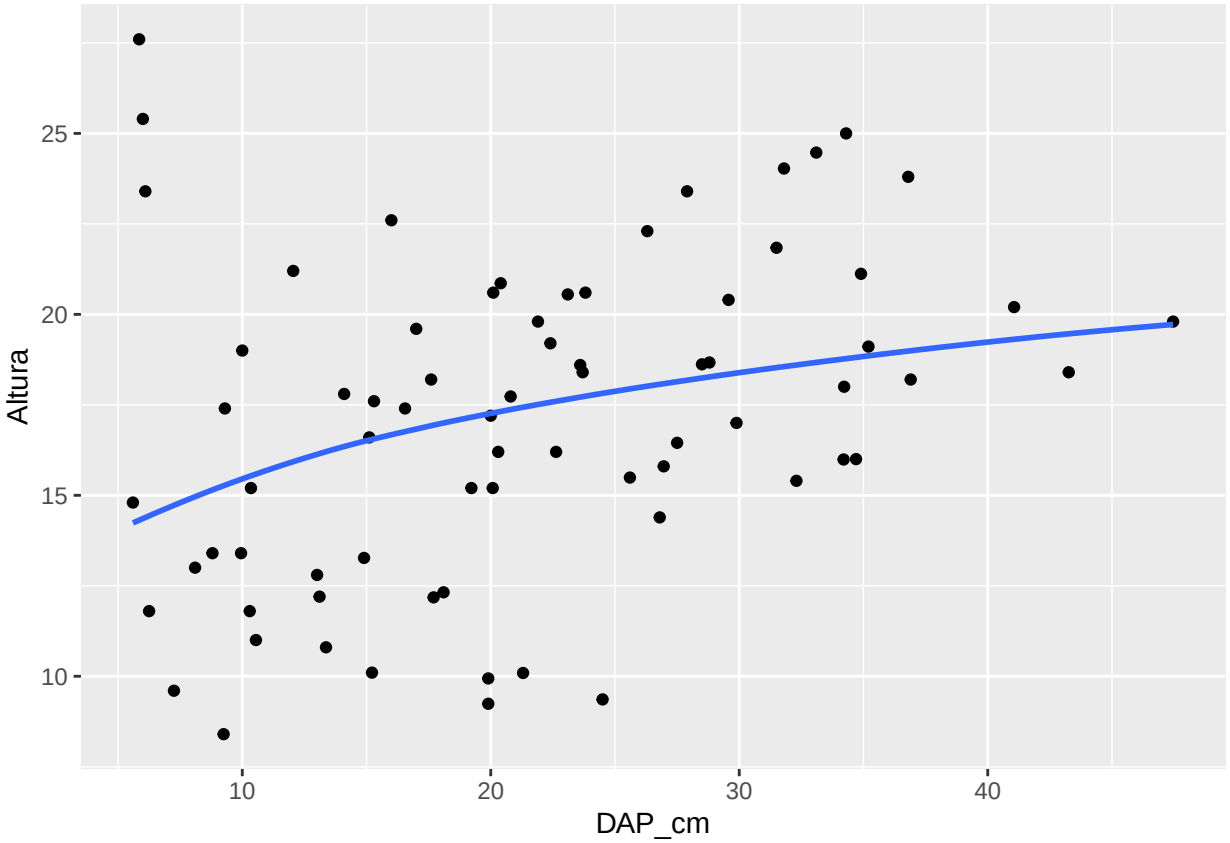
#Modelos

Modelo lineal (altura dap)





Modelo exponencial (altura dap)



Modelo	ValorP	RSE	Shapiro test	AIC
$H = 13.92 + 0.14 * DAP$	0.0035402	4.21	0.389	421.0029
$H = exp(2.38 + 0.155 * log(DAP))$	0.0095268	9.73		

Table 5: Modelos altura

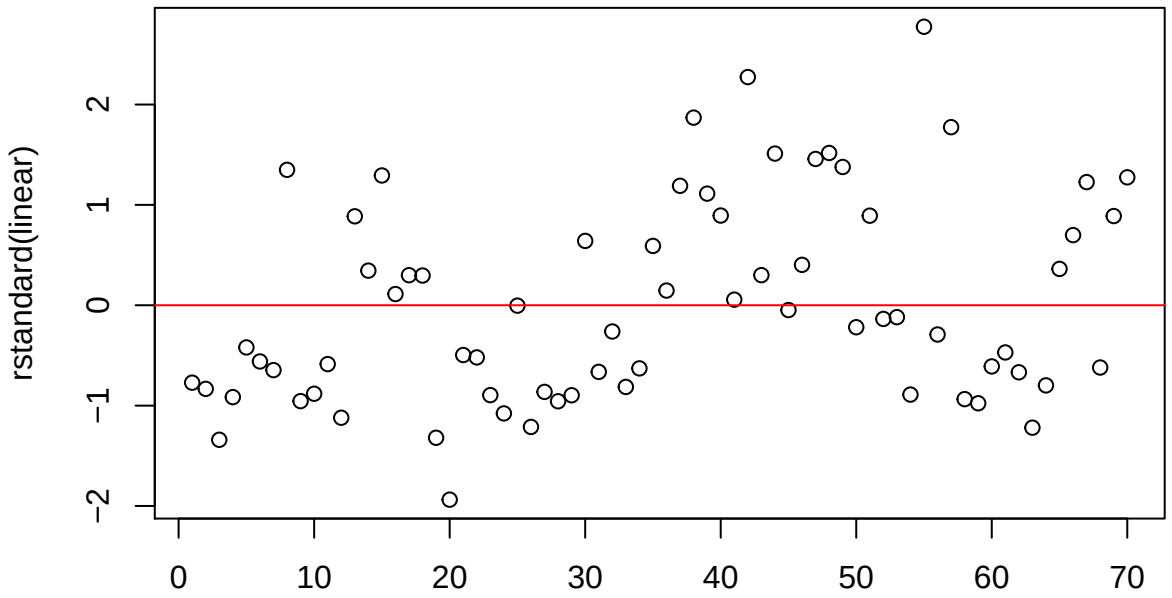
Modelo lineal (acopa dap)

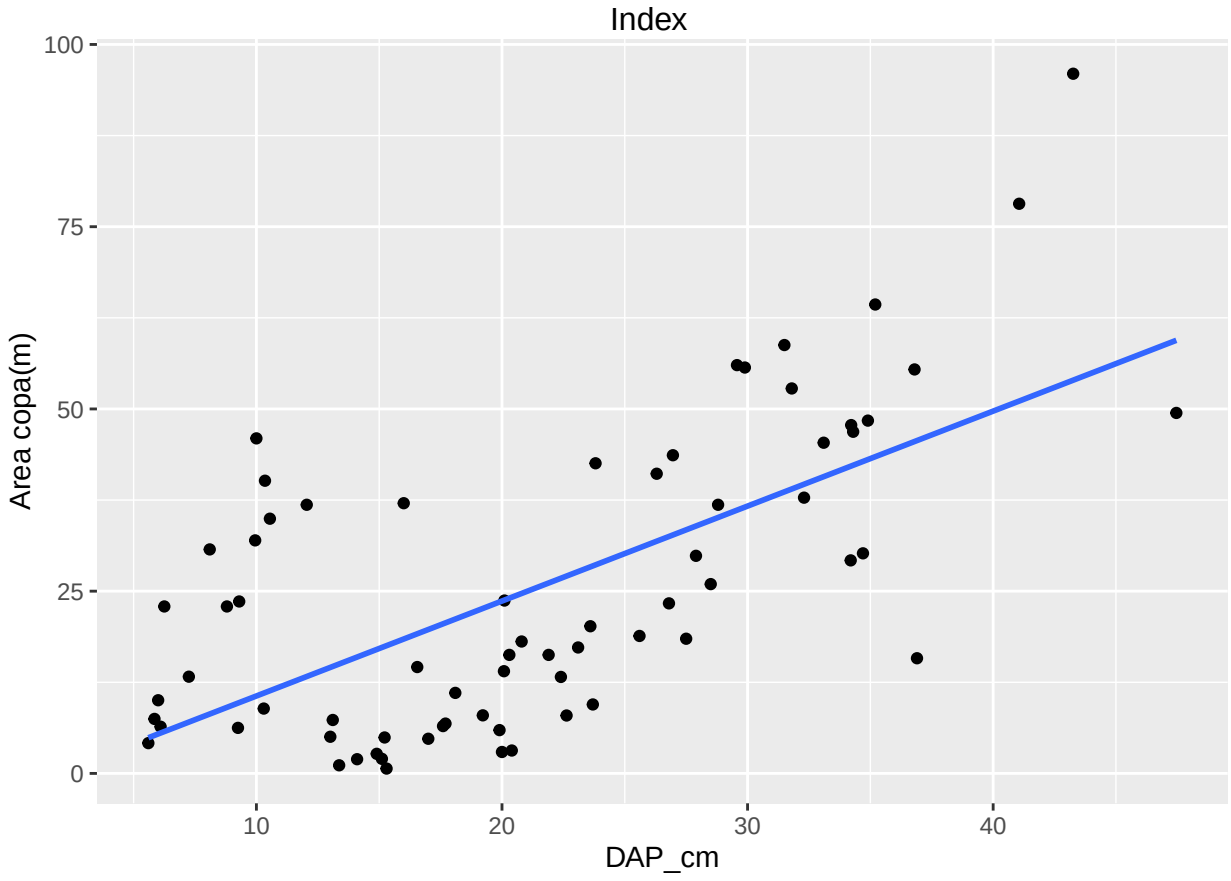
term	estimate	std.error	statistic	p.value
(Intercept)	-2.404367	4.3875447	-0.5479982	0.5854876
DAP_cm	1.302604	0.1855322	7.0209028	0.0000000

r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik	AIC	BIC	deviance	df.residual
0.4202556	0.41173	15.79892	49.29308	0	2	-291.507	589.0141	595.7596	16973.2	68

```
##
##  Shapiro-Wilk normality test
##
## data:  resid(linear)
```

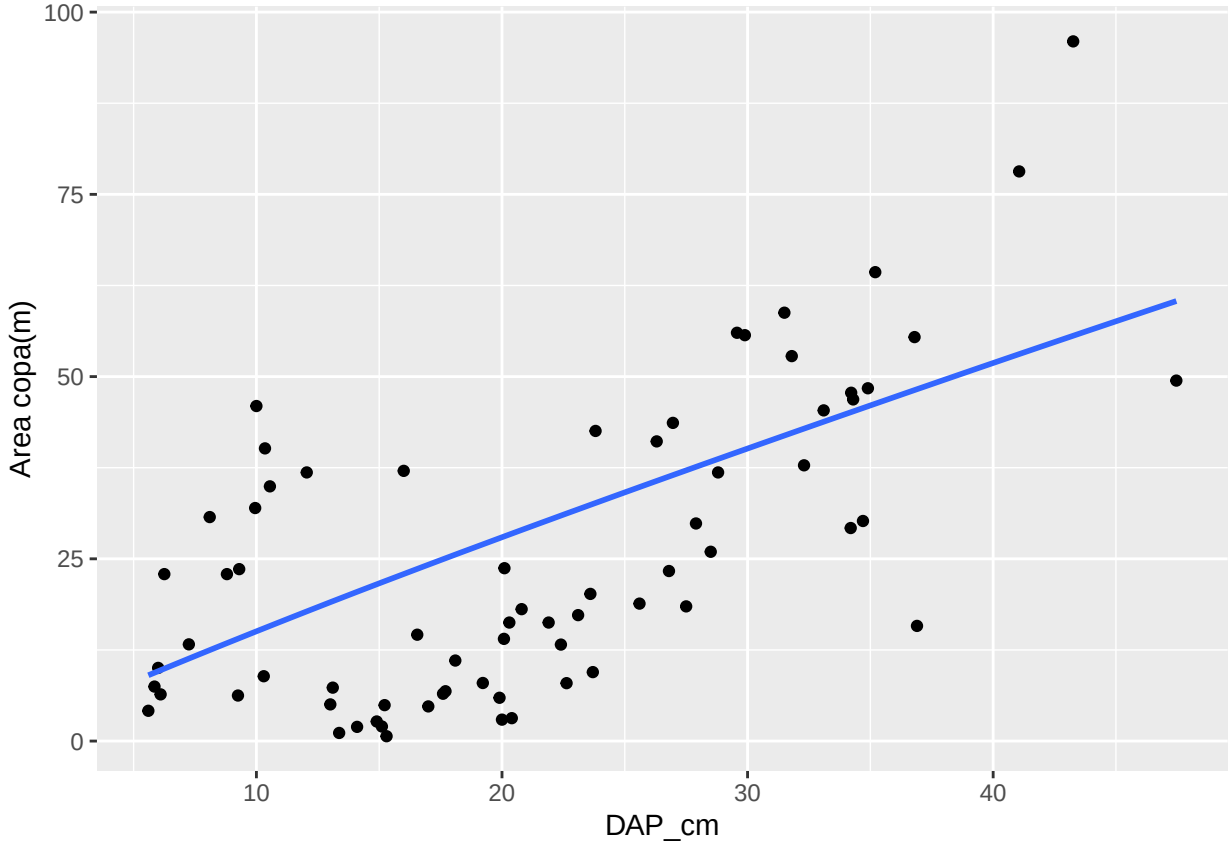
```
## W = 0.94616, p-value = 0.004587
```





Modelo Exp(acopa dap)

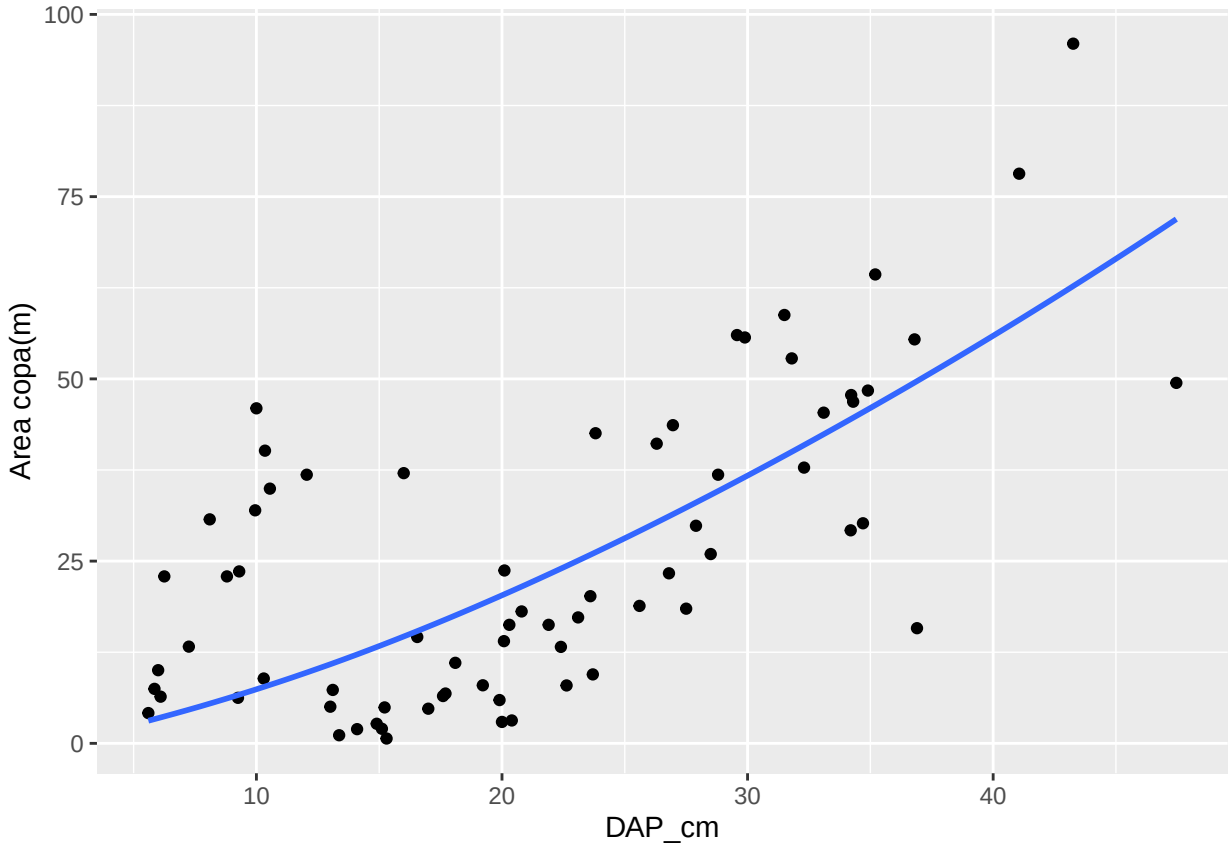
term	estimate	std.error	statistic	p.value
(Intercept)	0.1885491	0.6336677	0.2975519	0.7669523
log(DAP_cm)	0.8910002	0.2127831	4.1873647	0.0000831




```
## [1] 8.435679
```

```
## [1] 15.79892
```

sigma	isConv	finTol	logLik	AIC	BIC	deviance	df.residual
15.38148	TRUE	4.9e-06	-289.6326	585.2652	592.0107	16088.11	68


100
75
50
25
0
Area copa(m)
10
20
30
40
DAP_cm