Appendix S2: Additional Results

Pr(Survival)	df	dAIC
~size + transplant + size:transplant + (1|transect)	11.50	1.72
~size + transplant + density + size:transplant + density:transplant + (1|transect)	13.19	0.19
~size + transplant + density + size:transplant + density:transplant + size:density + size:transplant:density + (1|transect)	14.22	0.00

Table S1: AIC model selection for survival probability.

mean(size)	sd(size)	df	dAIC
~size + (1|transect)	~1	3.00	1024.88
~size + density + (1|transect)	~1	8.50	977.23
~size + density + size:density + (1|transect)	~1	10.47	975.17
~size + (1|transect)	~size	9.65	146.23
~size + density + (1|transect)	~size	16.24	19.45
~size + density + size:density + (1|transect)	~size	18.55	19.62
~size + (1|transect)	~size + density	10.40	115.52
~size + density + (1|transect)	~size + density	18.97	0.08
~size + density + size:density + (1|transect)	~size + density	21.33	0.00

Table S2: AIC model selection for mean and variance of future size

Pr(Flowering)	df	dAIC
~size + (1|transect)	5.78	0.63
~size + density + (1|transect)	6.80	2.32
~size + density + size:density + (1|transect)	7.24	0.00

Table S3: AIC model selection for flowering probability.

No. fruits	df	dAIC
~size + (1|transect)	14.25	71.99
~size + density + (1|transect)	5.52	0.00
~size + density + size:density + (1|transect)	6.23	0.37

Table S4: AIC model selection for fruit number.

Pr(Recruitment)	df	dAIC
~(1|transect)	6.57	0.00
~density + (1|transect)	7.39	0.93

Table S5: AIC model selection for recruitment probability.

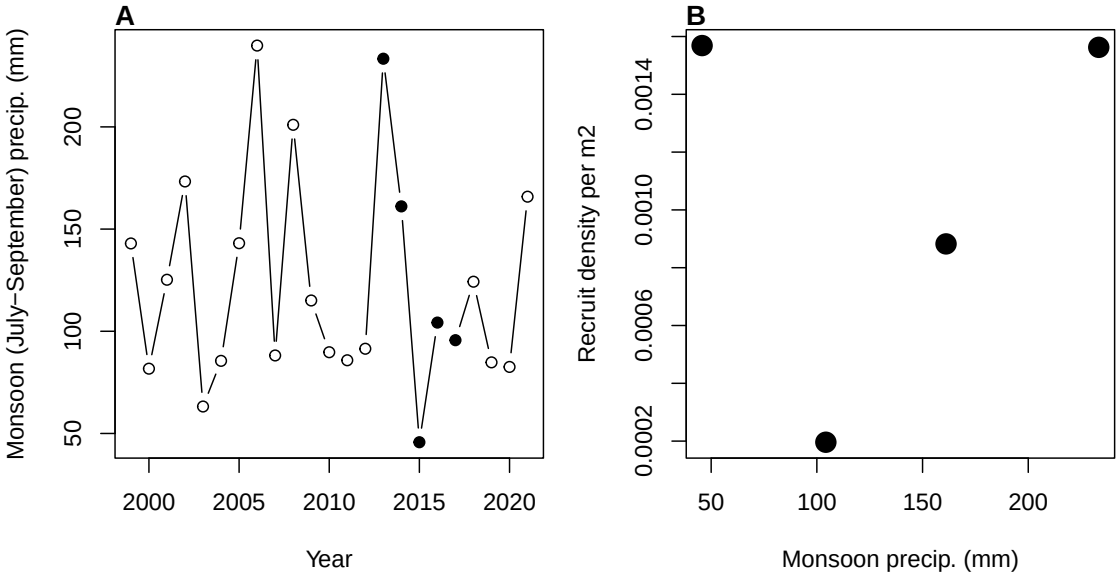

Figure S1: A, Time series of annual monsoon precipitation (filled circles are the years in which this study was conducted). B, Relationship between density of creosotebush recruits observed on our transects in May-June and monsoon precipitation in the preceding July-September.

mean(size)	sd(size)	df	dAIC
~(1|transect)	~1	2.00	2.90
~density+(1|transect)	~1	4.42	0.00
~(1|transect)	~density	3.00	4.74
~density+(1|transect)	~density	5.56	1.21

Table S6: AIC model selection for mean and variance of recruit size.