



	+	-
<b>PC1</b>	RGI	G
	RGRI	MCARI2
	WCI	GM1
	gNDVI	LIC1
	SRChI	NDVIaparicio
<b>PC2</b>	GM2	ZTM
	MCARI	LCI
	CRI	SRChIb
	LIC2	SRChIa
	CRI2	PRIPenuelas
<b>PC3</b>	SR	BRI
	NDVI	NPCI
	PSSRb	GM1
	SRChI tot	SRChIb2
	PSSRc	SRChIa

	+	-
<b>PC1</b>	dry matter, pigments structure water	chlorophyll structure chlorophyll
	chlorophyll	fluorescence
	chlorophyll	structure
	chlorophyll	chlorophyll
	chlorophyll	chlorophyll
<b>PC2</b>	chlorophyll	chlorophyll
	chlorophyll	chlorophyll
	carotenoids	chlorophyll
	fluorescence	chlorophyll
	carotenoids	chlorophyll
<b>PC3</b>	structure	dry matter, pigments
	structure	dry matter, pigments
	chlorophyll	chlorophyll
	chlorophyll	chlorophyll
	carotenoids	chlorophyll

**Figure S5.** Principal component analysis of vegetation indices (VIs) in combination with agronomical, morphological and physiological traits measured in nine coastal lowland self-pollinated lines (CLS) and commercial cv Regalona grown in a field experiment under full irrigation (FI) and reduced irrigation (RI). (a) Distribution of CLS lines and cv Regalona under FI and RI along principal components 1 and 2 (PC1 and PC2); (b) Distribution of CLS lines and cv Regalona under FI and RI along principal components 1 and 3 (PC1 and PC3); (c) The top five traits (VIs) contributing the most to PC1, PC2 and PC3 in both the positive and negative direction; (d) The sensitivity category of the VIs listed in (c).