

*Inclusion of intra- and interspecific facilitation expands the theoretical framework for
seagrass restoration*



Figure S1. A global survey of seagrass restoration practitioners located across 23 countries indicating respondent-identified locations of the top 3 largest or most-frequent restoration locations.

Table S1. Co-restoration

Habitat/Organism	Count*
Oyster Reef	25
Salt Marsh	14
Bivalves (unspecified)	6
Living Shoreline/Breakwater	5
Infaunal clams	4
Kelp	3
Scallops	3
Abalone	1
Artificial Reef	1
Beaches	1
Coastal Upland	1
Coastal Wetland	1
Corals	1
Freshwater Wetland	1
Intraspecific	1
Long-distance facilitation	1
Mangrove	1
Migration Corridors	1
Mudflat	1
Mussel Reef	1
River	1
Salt Barren	1

* Respondent-provided answers to the question, “Do you restore other organisms (e.g. bivalves, salt marshes) in conjunction with SAV restoration? No/Yes (please describe)_____”. Count is the number of survey participants.

Table S2. Seed Experiment T-tests

Metric	t	df	p	$\bar{x}_s$	$\bar{x}_{sc}$	units
Shoot Length	-3.199	7.709	0.013 *	8.269	22.398	cm
Patch Expansion	-3.741	5.730	0.010 *	-10.635	513.620	% change
Belowground Biomass	-4.037	4.801	0.011*	0.376	3.118	g
# of seeds	-1.893	4.802	0.119	61.200	316.800	seeds
Biomass of rep shoots	-1.651	4.747	0.163	0.350	2.040	g
Growth: biomass	-1.324	4.519	0.249	68.214	217.942	% change
Growth: length	-1.766	4.904	0.139	42.341	74.610	% change
C:N in leaves	3.336	14.507	0.005 *	16.806	14.304	
C:N in rhizomes	3.203	17.262	0.005 *	28.851	25.273	
Total aboveground N	-4.829	19.781	<0.001 *	21.063	131.826	mg
Total belowground N	-6.113	21.425	<0.001 *	5.127	27.571	mg

Table S3. Adult Shoots Statistical Tests

Response	Test	Treatment	Df	Sum Sq	Mean Sq	F	P
Aug-Sept Shoot Change	ANOVA	Planting	1	8806	8806	21.552	7.37E-05
		Clams	1	374	374	0.916	0.347
		Planting:Clams	1	227	227	0.556	0.462
		Residuals	28	11440	409		
	Tukey Honest Significant Differences	Intact:No Clams - Dispersed:No Clams					0.004
		Dispersed:Clams - Dispersed:No Clams					0.629
		Intact:Clams - Dispersed:No Clams					0.002
		Dispersed:Clams - Intact:No Clams					0.065
		Intact:Clams - Intact:No Clams					0.999
		Intact:Clams - Dispersed:Clams					0.047

Response	Test	Treatment	Df	Sum Sq	Mean Sq	F	P
Area Increase (initial to final)	ANOVA	Planting	1	22075	22075	11.322	0.002
		Clams	1	309	309	0.158	0.694
		Planting:Clams	1	826	826	0.424	0.520
		Residuals	28	54593	1950		
	Tukey Honest Significant Differences	Intact:No Clams - Dispersed:No Clams					0.243
		Dispersed:Clams - Dispersed:No Clams					0.998
		Intact:Clams - Dispersed:No Clams					0.058
		Dispersed:Clams - Intact:No Clams					0.179
		Intact:Clams - Intact:No Clams					0.879
		Intact:Clams - Dispersed:Clams					0.039

Response	Test	Treatment	Df	Sum Sq	Mean Sq	F	P
Final Total Area	ANOVA	Planting	1	1439480	1439480	13.912	0.001
		Clams	1	93636	93636	0.905	0.350
		Planting:Clams	1	133774	133774	1.293	0.265
		Residuals	28	2897258	103473		
	Tukey Honest Significant Differences	Intact:No Clams - Dispersed:No Clams					0.279
		Dispersed:Clams - Dispersed:No Clams					0.999
		Intact:Clams - Dispersed:No Clams					0.013
		Dispersed:Clams - Intact:No Clams					0.225
		Intact:Clams - Intact:No Clams					0.464
		Intact:Clams - Dispersed:Clams					0.009

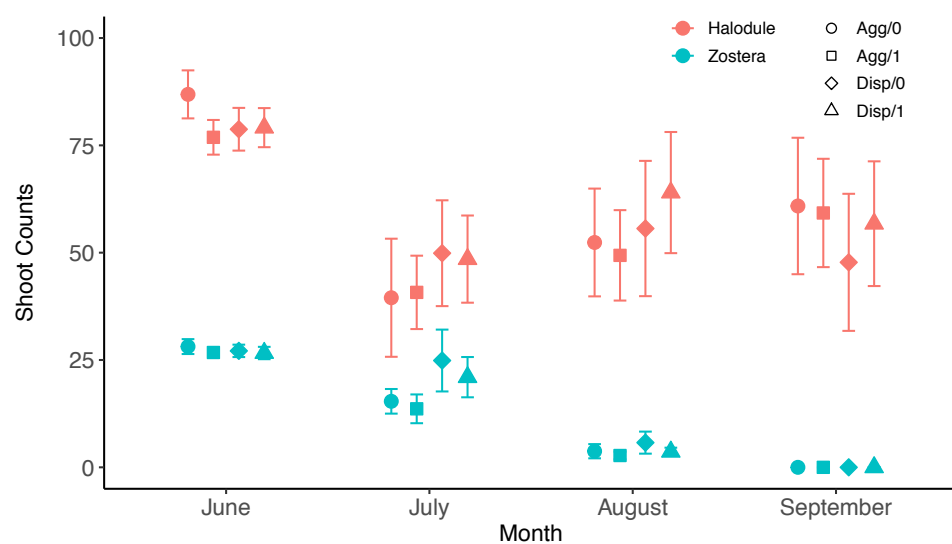


Figure S2. *Zostera marina* and *Halodule wrightii* shoots per plot in the transplant experiment.

Agg = aggregated, Disp = dispersed, 0 = no clams, and 1 = clam addition.