

## Appendix A1



Figure A1. (A) Experimental stream mesocosms with floating white emergence traps at the Univ. of Oklahoma Biological Station, Lake Texoma, OK, USA. (B) A top-down view of the substrate and tadpoles on mesocosm walls. This picture was taken prior to algal growth, which further increased refuge available to prey.

Table A1. Experimental timeline of aquatic and terrestrial food web samples.

Date	Day of experiment	Event
5/16/08		All mesocosms filled with water and inoculated with algae and small invertebrates; aerial colonization begin.
6/4/08	0	Distributed fish to treatments; experiment begins
6/5/08	1	first benthic sample
6/6/08	2	first tadpole and odonate counts
6/10/08	6	Set emergence traps; first fish observation; second tadpole and odonate counts;
6/11/08	7	first fish observations; first spider counts
6/12/08	8	first emergence collection
6/16/08	11	second fish observation; third tadpole and odonate counts; second spider counts
6/22/08	18	third spider counts
6/25/08	21	third fish observations
6/26/08	22	Set emergence traps; fourth tadpole counts
6/28/08	24	second emergence collection
7/2/08	28	fifth tadpole and odonate counts
7/9/08	35	fourth spider counts
7/10/08	36	Set emergence traps; sixth tadpole counts
7/13/08	39	third emergence collection
7/21/08	47	sixth tadpole counts
7/23/08	49	fifth spider counts
7/27/08	53	Set emergence traps
7/28/08	54	Collected periphyton
7/29/08	55	fourth emergence collection
7/30/08	56	second benthic sample
7/31/08	57	Collected all fish; end of experiment



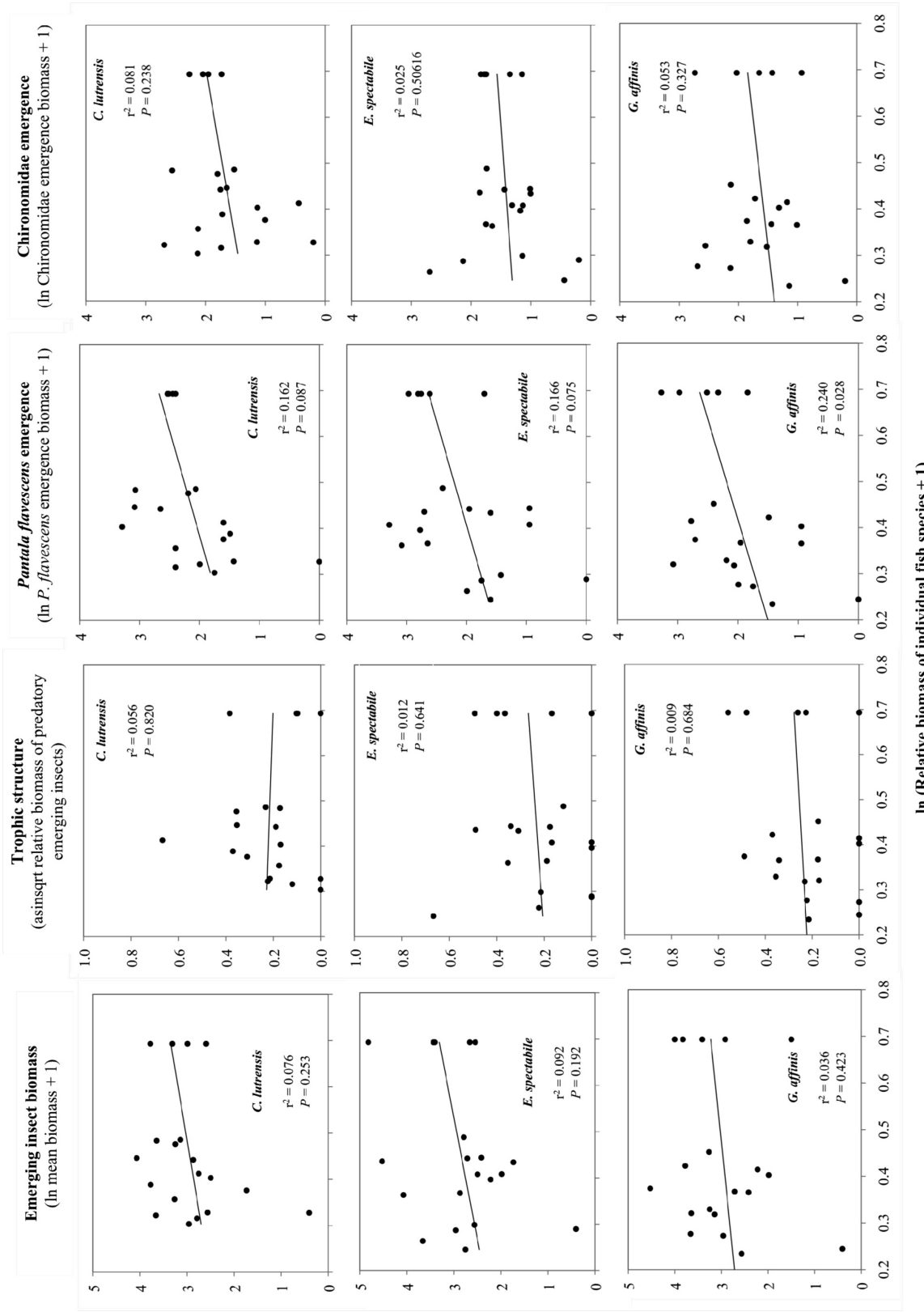


Figure A3. Results of species identity tests. Regressions represent the relationship between the relative biomass of individual fish species in each multiple species treatment and each of four response variables. Each data point represents the mean of a single replicate, averaged across sample dates.