р7. Brown 1982. Freshwater herbivorous snail fecundity and growth, 2 spp. in 1-liter containers in 3

ponds. Type 1: Physa fecundity 3/3 s, growth 0/3 s; Lymnaea fecundity 3/3 s, growth 1/3 s. No

positive responses. Pairs: fecundity both; growth asym., no reversals. Type 2: Physa fecundity

inter >, 3 ponds; growth intra >, 3 ponds; Lymnaea fecundity intra >, 1 pond, intra =, 2 ponds;

growth intra >, 1 pond, intra =, 2 ponds.

9. Creese and Underwood 1982. Marine herbivorous snails in cages, mortality (mort.), growth, and

weight (wt.). C. = Cellana, S. v. = Siphonaria virgulata, S. d. = S. denticulata. For mort., exp.

were done in the following 2 periods: May-Aug. 1977 with all 3 spp., July 1979-Jan. 1980 with C.

and S. d. only. For growth, exp. were done in either 2 or 3 separate areas for the above 2 periods,

respectively, giving a total of 5 exp. for C. and S. d. and 2 exp. for S. v. For weight, 3 exp. in the

second period for C. and S. d. For mixed spp. densities of 20, treatments with 15 C. were not

included since treatments could not be maintained because of high mort. Type 1: After each

fraction is shown the other sp. in the pair. C.: mort. 0/iS. v., 0/2S. d.; growth 0/2S. v., 0/5S. d.; wt.

0/3S. d. S. v.: mort. 1/IC., 0/iS. d.; growth 2/2C., 2/2S. d. S. d.: mort. 2/2C., 0/iS. v.; growth 5/

5C., 2/2S. v.; wt. 3/3C. No positive responses. Temporal (seasonal) variation (same for both mort.

and growth): 2 @ 0/2 t, 2 @ 2/2 t; spatial variation (growth only): 2 @ 0/2 s, 4 @ 2/2 s, 0/3 s, 3/3 s.

Type 2: All comparisons are between single sp. vs. 2 spp. treatments at the same total density. C.:

mort., intra > with S. v., 1 exp., intra > with S. d., 2 exp.; growth, intra = with S. v., 2 exp., intra

= with S. d., 5 exp.; wt. intra > with S. d., 3 exp. S. v.: mort., inter > from C., 1 exp., intra =

with S. d., 1 exp.; growth intra = with C., 2 exp., intra = S. d., 2 exp.; S. d.: mort., inter > from

C., 2 exp., intra = with S. v., 1 exp.; growth, intra = with C., 5 exp., intra = with S. v., 2 exp.;

wt. intra = with C., 3 exp. Pairs: mort.: C. > S. v. asym., C. > S. d. asym.; S. v./S. d. neither;

growth C. > S. v. asym., C. > S. d. asym. S. v./S. d. both; wt. C. > S. d. asym. No reversals

within pairs.

17. Fonteyn and Mahall 1981. Terrestrial plants in desert, effect of removal of each sp. on xylem

pressure potential of other sp. Type 1: Seasonal variation, Larrea 212, Ambrosia 2/2. Pairs: 2

seasons, both. Type 2: Larrea autumn 1977 inter >, spring 1978, intra =; Ambrosia autumn 1977

and spring 1978, both inter >. Note: table 3 in Fonteyn et al. (1981) contains typographical errors;

the above correct results were given me by the authors.

32. Kroh and Stephenson 1980. Terrestrial plant weight, on first-yr fallow old field. Estimated only the

relative strength of intraspecific competition vs. interspecific. A. = Amaranthus, C. =

Chenopodium, P. = Panicum, S. = Setaria. Results: A.: intra = with C., intra > with P. and S.;

C.: intra = with A., intra > with P. and S.; P.: intra = with S., inter > from A. and C.; S.: intra =

with P., inter > from A. and C.

36. Mackie et al. 1978. Freshwater suspension-feeding herbivorous molluscs in containers in pond;

reproductive rate. M. t. = Musculium transversum, M. s. = M. secures. Type 1: 1/1, 1/1. Pair:

both. Type 2: M. t.: inter > 1 exp.; M. s. inter > 1 exp.

46. Peterson 1982. Marine suspension-feeding herbivorous molluscs in enclosures; 2 spp., 3 sites, 2 yr,

2 seasons. P. = Protothaca, C. = Chione. Type 1: Growth: P. 1/12, C. 0/11; recruitment P. (3

seasons, 3 sites) 0/9; C. (I season and site) 1/1; proportion of body mass as gonad (1 site, 1 season)

P. 1/1, C. 0/1. Pairs: for 2 variables asym. C. > P.; 1 variable asym. P. > C. Positive responses:

growth, P. 1/12, C. 1/11. Type 2: Small P. growth intra > 6 exp.; C. growth intra > 2 exp. No

competition in other 15 exp. P. recruitment intra > 1 exp. no competition 8 exp. C. recruit inter >

1 exp. Gonad proportion, P. intra =, C. intra >.

51. Rahman 1976. Terrestrial plant growth, 2 spp., 3 sites; estimated only the relative strength of

intraspecific competition vs. interspecific; 1969 exp. in planted plots in grassland. Results: Dacty

lis intra >, 1 exp.; intra =, 2 exp.; Deschampsia inter >, 2 exp.; intra =, 1 exp.

56. Seifert and Seifert 1976. Terrestrial herbivore and detritivore insect density; 4 spp. insects

matched in pairs in each of 2 spp. Heliconia plants; abbreviations use first initials of each insect

genus name. Cephaloleia (Ce.), Gillisius (G.), Beebeoinyia (B.) are herbivores; Quichuana (Q.),

Copestylum (Co.), Merosargus (M.) feed on detritus and nectar. (Although some of these insects

live underwater in the flower bracts, they are classed as terrestrial because they live on a land

plant.) Type 1: Heliconia wagneriana (H. w.): Q. 1/3, G. 0/3, Co. 0/3, B. 1/3; Heliconia imbricate

(H. i.): Q. 0/3, G. 2/3, Ce. 1/3, M. 0/3. Same insect sp. (Q. and G.) in both plants: in H. t,. no

competition, in H. i. Q. responded positively; G. responded negatively. Positive responses: Q. to

B., Q. to G., Ce. to M., Ce. to Q., M. to Ce. Type 2: H. w.: Q. inter> from Co.; G. intra> with

Q., B., Co.: Co. intra > with Q., G., B.; B intra > with Q., G., Ce. H. i.: G. inter > from Q., M.;

Ce. inter > from G.; M. intra > with Q., G., Ce. Same insect pair in different plants: H. w.: G.

intra > with Q.; H. i.: G. inter > from Q. No competition of either type, 8 other exp. Pairs: 5

asym.: Co. > Q., G. > B., Q. > G., M. > G., G. > Ce.; 6 neither: Q./B., G.lCo., Co./B., Q./M.,

1. /Ce., M./Ce.

59. Smith and Cooper 1982. Freshwater suspension-feeding herbivorous crustaceans in containers in a

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All use subject to University of Chicago Press Terms and Conditions (http://www.journals.uchicago.edu/t-and-c).688 pond, population growth. Type 1: exp. 2, July (3 spp): Daphnia (D.) 2/2, Moina (M.) 1/2,

Ceriodaphnia (C.) 2/2; exp. 3, Aug. (2 spp.): D. 1/8, C. 7/8. No positive responses. Pairs: exp. 2 D./

M. both, DIC. both, M. > C. asym. (Intransitive network of 3 spp., no reversals within pairs).

Exp. 3 D.IC. asym. Temporal variation D. 1/2 t, C. 2/2 t. Type 2: exp. 3, D., intra >, C. inter >.

66. Underwood 1978. Marine herbivorous snails in cages, mortality (mort.) and weight (wt.) change.

C. = Cellana, N. = Nerita, B. = Bembicium. Experiments: 100 days all 3 spp., 200 days, N. and

B. only; each fraction refers to exp. between a particular pair of species shown by the abbrevia

tions. The number of experiments for each species is as follows: for mortality, 1 exp. replicated in

time; for wt., 2 exp. at different seasons, each having as replicates the different individuals

measured. The author provided the analyses for the 2 different times, since these data had been

pooled in the published paper. Type 1: C., mort. 1/1 N., 0/1 B., wt. 2 seasons: 2/2 N., 0/2 B.; N.:

mort. 0/1 C., 0/2 B., wt. 0/2 C., 0/2 B.; B.: mort. 1/1 C., 1/2 N., wt. 2/2 C., 2/2 N. No positive

responses. Temporal (seasonal) variation in wt.: C.: 0/2. 0/2; N.: 0/2, 0/2; B.: 2/2, 2/2. Type 2: C.:

mort., intra = with N., intra > with B.; wt., intra = with N., intra > with B.; N.: mort., 200 days

intra > with B., wt., 200 days intra > with B.; B.: mort., 100 days inter > from C., 200 days intra

= with N.; wt. 100 days inter > from C., 200 days intra = with N. Pairs: mort.: N. > C. asym., N.

> B. asym. or neither, C. > B. asym.; growth: N. > C. asym., N. > B. asym., C. > B. asym.

Three-species transitive hierarchy; no reversals within pairs.

67. Werner, E., and Hall 1977. Freshwater predaceous fish, juveniles only, placed in experimental

ponds, 2 spp., estimated only the relative strength of intraspecific competition vs. interspecific.

Results: survival, intra = for both spp.; growth, bluegill inter >, green sunfish intra =; food type,

intra = for both spp.; food size, intra = for both spp.