

Table 10. Regression of egg numbers (dissected 5 d after emergence or upon emergence) against various traits in the food treatments. Traits measured in mm. For treatments, BW = buckwheat, IB = Indian blanket, HS = honey solution, and EM = emergence. For traits, Head = head width, Tibia = right metathoracic tibia length, Wing = wing length, Eggs = total eggs at dissection. R^2 = coefficient of determination, and SE = standard error. For P-values, * = significant at $\alpha = 0.05$ and ** = significant at $\alpha = 0.01$. Emergence = metrics of parasitoids within 24 h of adult emergence.

Treatment	Trait	Mean \pm SE	R^2	P	Equation
Buckwheat	Head	1.14 \pm 0.01	0.15	0.22	Egg = -194.20 + (277.33 x Head)
	Tibia	1.12 \pm 0.01	0.07	0.41	Egg = -48.22 + (153.04 x Tibia)
	Wing	3.24 \pm 0.04	0.55	0.045*	Egg = -234.00 + (110.16 x Wing)
	Eggs	123.00 \pm 5.25			
Indian Blanket	Head	1.14 \pm 0.01	0.00	0.94	Egg = 147.32 - (8.04 x Head)
	Tibia	1.14 \pm 0.01	0.07	0.35	Egg = 226.50 - (77.68 x Tibia)
	Wing	3.20 \pm 0.03	0.07	0.36	Egg = 229.04 - (28.39 x Wing)
	Eggs	138.13 \pm 3.02			
Honey	Head	1.16 \pm 0.01	0.08	0.30	Egg = -69.51 + (175.66 x Head)
	Tibia	1.13 \pm 0.01	0.16	0.12	Egg = -95.32 + (203.31 x Tibia)
	Wing	3.11 \pm 0.04	0.52	0.002**	Egg = -200.82 + (107.45 x Wing)
	Eggs	133.88 \pm 6.10			
Water	Head	1.15 \pm 0.01	0.22	0.21	Egg = -43.41 + (131.77 x Head)
	Tibia	1.13 \pm 0.01	0.00	0.98	Egg = 106.00 + (2.35 x Tibia)
	Wing	3.15 \pm 0.00	0.01	0.80	Egg = 79.43 + (9.27 x Wing)
	Eggs	108.67 \pm 3.45			
Emergence	Head	1.10 \pm 0.04	0.59	0.009**	Egg = 47.94 + (28.82 x Head)
	Tibia	1.14 \pm 0.02	0.01	0.84	Egg = 86.16 - (5.75 x Tibia)
	Wing	3.13 \pm 0.06	0.51	0.021*	Egg = 27.44 + (16.68 x Wing)
	Eggs	79.60 \pm 1.39			

Table 11. Mean \pm SEM sugar content ($\mu\text{g}/\text{insect}$) of wasps after 24 h of exposure to the treatments following emergence (shown in regular font), and mean \pm SEM sugar content of buckwheat and Indian blanket nectar and the 5% honey solution (shown in italics). G/F = glucose:fructose ratio and S/H = sucrose: hexose (glucose+fructose) ratio. Differing letters across treatments indicate significant differences (Mann-Whitney U test, $P \leq 0.05$).

Treatment	Sugar				Sugar ratios	
	Fructose	Glucose	Sucrose	Maltose	G/F	S/H
Parasitoid content						
Buckwheat	0.19 \pm 0.11	8.46 \pm 1.37	0.02 \pm 0.01	0.05 \pm 0.03	NA	NA
Ind. Blanket	0.23 \pm 0.11	6.24 \pm 2.42	0.14 \pm 0.09	0.13 \pm 0.08	NA	NA
Honey	0.29 \pm 0.22	7.12 \pm 3.45	0.06 \pm 0.02	0.20 \pm 0.15	NA	NA
Water	0.07 \pm 0.03	5.84 \pm 2.01	0.04 \pm 0.01	0.08 \pm 0.05	NA	NA
Food resource content						
Buckwheat	3.11 \pm 1.30	3.76 \pm 0.83	13.14 \pm 4.31	0.01 \pm 0.00	2.23 \pm 0.83	2.10 \pm 0.36
Ind. Blanket	2.96 \pm 2.33	5.03 \pm 2.78	0.83 \pm 0.23	0.03 \pm 0.01	8.34 \pm 6.26	0.34 \pm 0.21
Honey	163.8 \pm 57.86	158.8 \pm 40.18	13.17 \pm 2.95	1.19 \pm 0.30	1.19 \pm 0.30	0.04 \pm 0.00
Water	NA	NA	NA	NA	NA	NA

Figure Captions

Fig.6. Longevity of *A. rufotestaceus* fed on different food treatments. Bars with different letters are significantly different (Ryan-Einot-Gabriel-Welsch Multiple Range, $P < 0.05$). Numbers above bars are numbers of individuals used for respective treatments.

Fig.7. Fecundity of *A. rufotestaceus* at emergence and after five days of feeding on different food treatments. Bars with different letters are significantly different (Ryan-Einot-Gabriel-Welsch Multiple Range, $P < 0.05$). Numbers above bars are numbers of individuals dissected for the respective treatments.

Figure 6

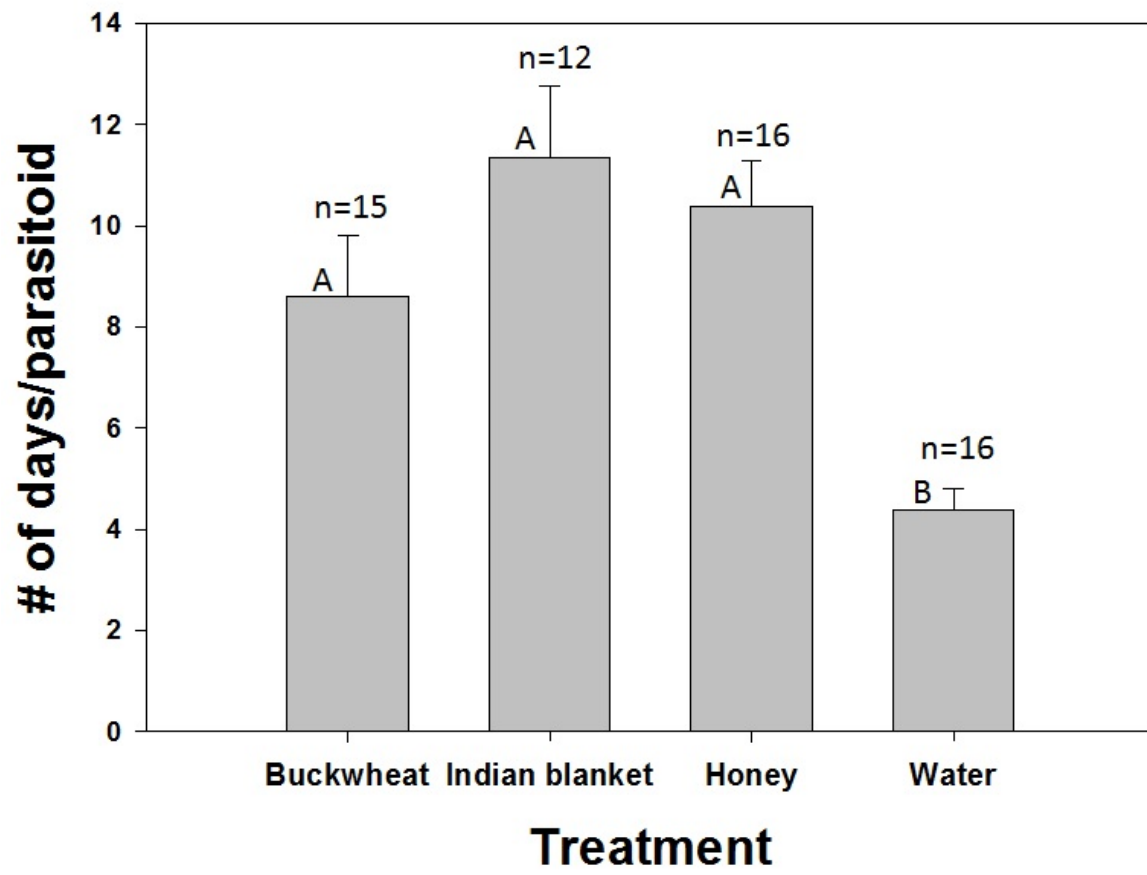


Figure 7

