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 α = 0.05 and ** = significant at α = 0.01. Emergence = metrics of parasitoids within 24 h of adult emergence.

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

Table 11. Mean ± SEM sugar content (µg/insect) of wasps after 24 h of exposure to the treatments following emergence (shown in regular font), and mean ± 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, $P \leq 0.05$).

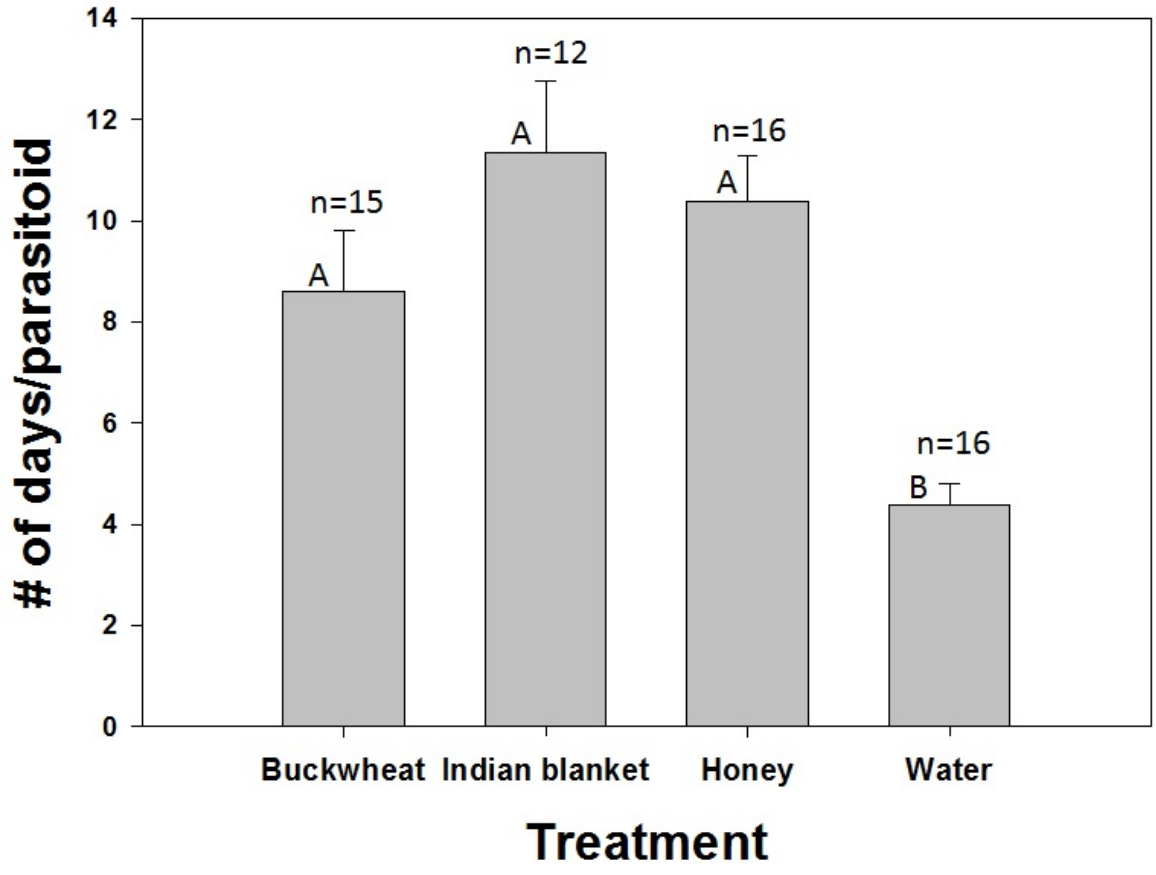
Treatment	Sugar				Sugar ratios	
	Fructose	Glucose	Sucrose	Maltose	G/F	S/H
Parasitoid content						
Buckwheat	0.19 ± 0.11	8.46 ± 1.37	0.02 ± 0.01	0.05 ± 0.03	NA	NA
Ind. Blanket	0.23 ± 0.11	6.24 ± 2.42	0.14 ± 0.09	0.13 ± 0.08	NA	NA
Honey	0.29 ± 0.22	7.12 ± 3.45	0.06 ± 0.02	0.20 ± 0.15	NA	NA
Water	0.07 ± 0.03	5.84 ± 2.01	0.04 ± 0.01	0.08 ± 0.05	NA	NA
Food resource content						
Buckwheat	3.11 ± 1.30	3.76 ± 0.83	13.14 ± 4.31	0.01 ± 0.00	2.23 ± 0.83	2.10 ± 0.36
Ind. Blanket	2.96 ± 2.33	5.03 ± 2.78	0.83 ± 0.23	0.03 ± 0.01	8.34 ± 6.26	0.34 ± 0.21
Honey	163.8 ± 57.86	158.8 ± 40.18	13.17 ± 2.95	1.19 ± 0.30	1.19 ± 0.30	0.04 ± 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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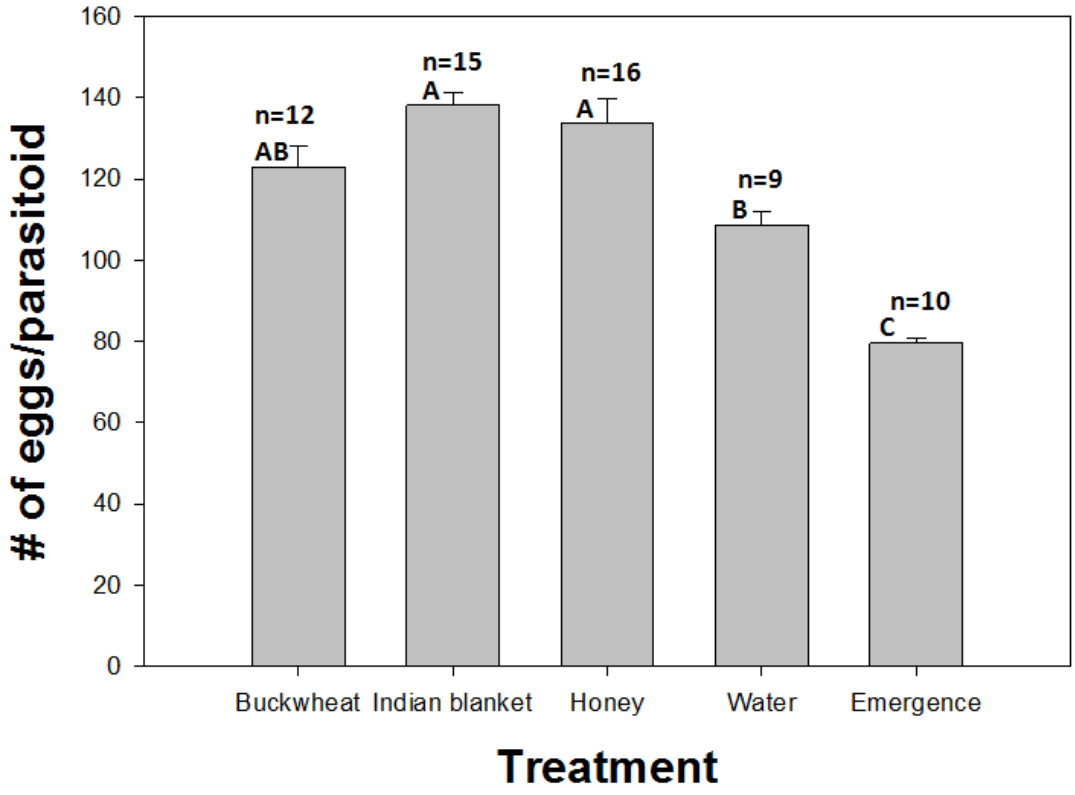
10
8
6
4
2
0
# of days/parasitoid
n=15
A
n=12
A
n=16
A
n=16
B
Buckwheat
Indian blanket
Honey
Water
Treatment

Figure 7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140
120
100
80
60
40
20
0
# of eggs/parasitoid
n=12
AB
n=15
A
n=16
A
n=9
B
n=10
C
Buckwheat
Indian blanket
Honey
Water
Emergence
Treatment