Data Nugget: Do insects prefer local or foreign foods?

2012 Data Worksheet

Species #	$native_1$ species prop leaf herbivory damage	$exotic_2$ species prop leaf herbivory damage	$invasive_3$ species prop leaf herbivory damage	Native Squared Difference $(native_i - \bar{x}_1)^2$	Exotic Squared Difference $(exotic_i - \bar{x}_2)^2$	Invasive Squared Difference $(invasive_i - \bar{x}_3)^2$
1	0.042	0.000	0.000			
2	0.016	0.000	0.000			
3	0.074	0.010	0.170			
4	0.067	0.028	0.183			
5	0.003	0.002	0.029			
6	0.032	0.027	0.050			
7	0.071	0.025	0.216			
8	0.012	0.000	0.091			
9	0.149	0.016	0.065			
10	0.008	0.293	0.088			
11	0.000	0.016				
12	0.167	0.006				
13	0.000	0.000				
14	0.004	0.100				
15	0.012	0.241				
16	0.006	0.242				
17	0.000					
18	0.000					
19	0.046					
20						
21						
22						
23						
24						
Sample Size (n)	19	16	10			
Mean ($\bar{x}$)	$\bar{x}_1$ =	$\bar{x}_2$ =	$\bar{x}_3$ =			
Sum of Squares (SS)= $\sum (x_i - \bar{x}_1)^2$				SS1 =	SS2 =	SS3 =
Variance (s^2) = $\frac{\sum(x_i - \bar{x})^2}{(n-1)}$				s_1^2 =	s_2^2 =	s_3^2 =
Standard deviation s = $\sqrt{\frac{\sum(x_i - \bar{x})^2}{(n-1)}}$				s_1 =	s_2 =	s_3 =
Standard error of the mean $\mathrm{SE}_{\bar{x}}$ = $\frac{s}{\sqrt{n}}$				$\mathrm{SE}_{\bar{x}}$ =	$\mathrm{SE}_{\bar{x}}$ =	$\mathrm{SE}_{\bar{x}}$ =
95% CI = $\frac{2s}{\sqrt{n}}$				95% CI =	95% CI =	95% CI =