

Your Name:
Show All Calculations

You set up a study site and divide it into 3 zones: North Facing is Zone 1, South Facing is Zone 2, and West Facing is Zone 3. You walk through each zone and count all of following trees: Tamarisk, Willow, Elder, and Cottonwood. Here's the data:

The sample must be randomly drawn from the population.
Data must be reported in raw frequencies (not percentages);
Measured variables must be independent;
Values/categories on independent and dependent variables must be mutually exclusive and exhaustive;
Observed frequencies cannot be too small.

	North	South	West	
Tamarisk	19	9	12	
Willow	9	16	2	
Elder	15	4	3	
Cottonwood	20	10	8	

Do trees have habitat preferences?

Now you want to know if you have support from a statistical test, and that you want to be correct at least 99% of the time ($\alpha=.01$).