Example of student-collected data for hypothesis 4:

Galls present?	Chewing Damage Present?		Total
	Yes	No	Total
Yes	16	4	20
No	13	7	20
Total	29	11	40

G-test of independence:

1)
$$a = 16 \ln 16 + 4 \ln 4 + 13 \ln 13 + 7 \ln 7 = 96.87$$

2)
$$b = 20 \ln 20 + 20 \ln 20 + 29 \ln 29 + 11 \ln 11 = 243.86$$

3)
$$c = 40 \ln 40 = 147.56$$

4)
$$G = 2(a-b+c) = 1.14$$

Compare with critical value (alpha .05) of 3.841

Conclusion: do not reject null hypothesis that galls occur independently of chewing damage