## Frequencies

	Location A	Location B	Total
Absent	8	20	28
Sparse	22	14	36
Abundant	26	10	36
	56	44	100

## **Frequencies Calculation**

	Location A	Location B	Cell	Calculation	Value
Absent	15.68	12.32	Absent, A	(8-15.68)2/15.68	3.78
Sparse	20.16	15.84	Absent, B	(20-12.32)2/12.32	4.81
<b>Abundant</b>	20.16	15.84	Sparse, A	(22-20.16)2/20.16	0.17
			Sparse, B	(14-15.84)2/15.84	0.21
			Abundant, A	(26-20.16)2/20.16	1.69
			Abundant, B	(10-15.84)2/15.84	2.15

**Total**  $\chi^2 = 3.78 + 4.81 + 0.17 + 0.21 + 1.69 + 2.15 =$ **12.81** 

## **Results Summary Table**

Metric	Value	Threshold	Conclusion
Chi-square (χ²)	12.81	-	-
p-value	0.0017	< 0.05	Significant
Cramer's V	0.36	0.3=medium	Medium association

Significant difference in heather prevalence between locations ( $\chi^2(2)$ =12.81, p=0.002).

Location A has more abundant heather (26 vs. 10 in B). Location B has more absent heather (20 vs. 8 in A). Medium effect size (Cramer's V=0.36).