

TABLE 94. Comparisons of presence or absence of soil hardpan in the upper 20 cm in four vegetation types by χ^2 analysis in 2×2 contingency tables from simple random sampling design surveys

Vegetation Comparisons	No. of points	χ^2 or $\chi^2_Y^a$	Results	
			Significance	r_{tet}^b
<i>I. pseudacorus</i> areas (marsh and transition) with similar but non- <i>Iris</i> areas	39	^a 4.418	significant at 0.05; <i>Iris</i> associated with hardpan	+ 0.59
Marshes with and without <i>I. pseudacorus</i>	17	0.004	not significant at 0.1	+ 0.03
Swamp-marsh transitions with and without <i>I. pseudacorus</i>	22	^a 8.814	significant at 0.005 <i>Iris</i> associated with hardpan	+ 0.92
Marshes with the swamp-marsh transitions	39	1.042	not significant at 0.1	+ 0.27

^a χ^2_Y is χ^2 with Yates' correction.

^b r_{tet} is tetrachoric coefficient of correlation.