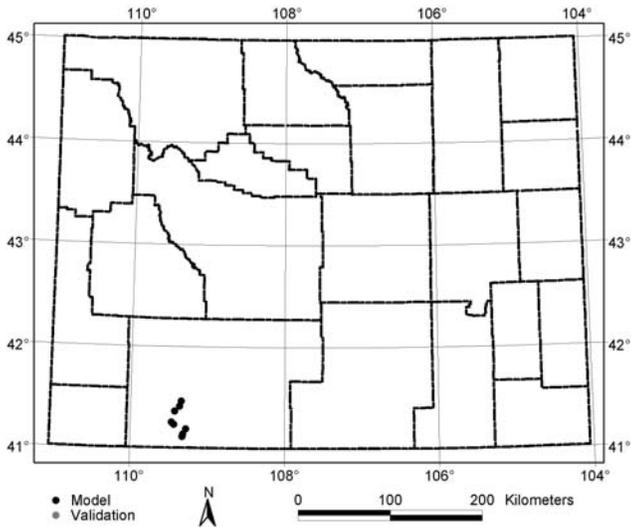


Cirsium ownbeyi Welsh

Known Distribution in Wyoming



Numbers of Points for Modeling

	Model	Validation	Total
Known Present	8	0	8
Known Absent	961	172	1133
Total	969	172	1141

Data Source (Points)

Wyoming Heritage Program (8)

Modeling Notes

Independent variables: ELEV, RELIEF, PT01, PT04, PT07, PT10, NWD, RT01, RT07, TA01, TA04, TA07, TA10, TX07, NFD, GDD, BEDGEOL, LANDCOV, SOIL, SURFGEOL

Minimum number of observations before split: 1

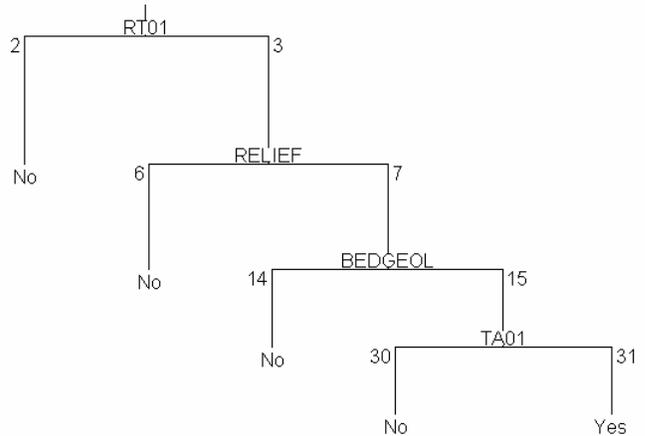
Minimum node size: 2

Minimum node deviance: 0.01

Minimum percent for pruning: 0.7

Biomes used for validation: FOOT, IDGRS

Classification Tree Used in Model Building



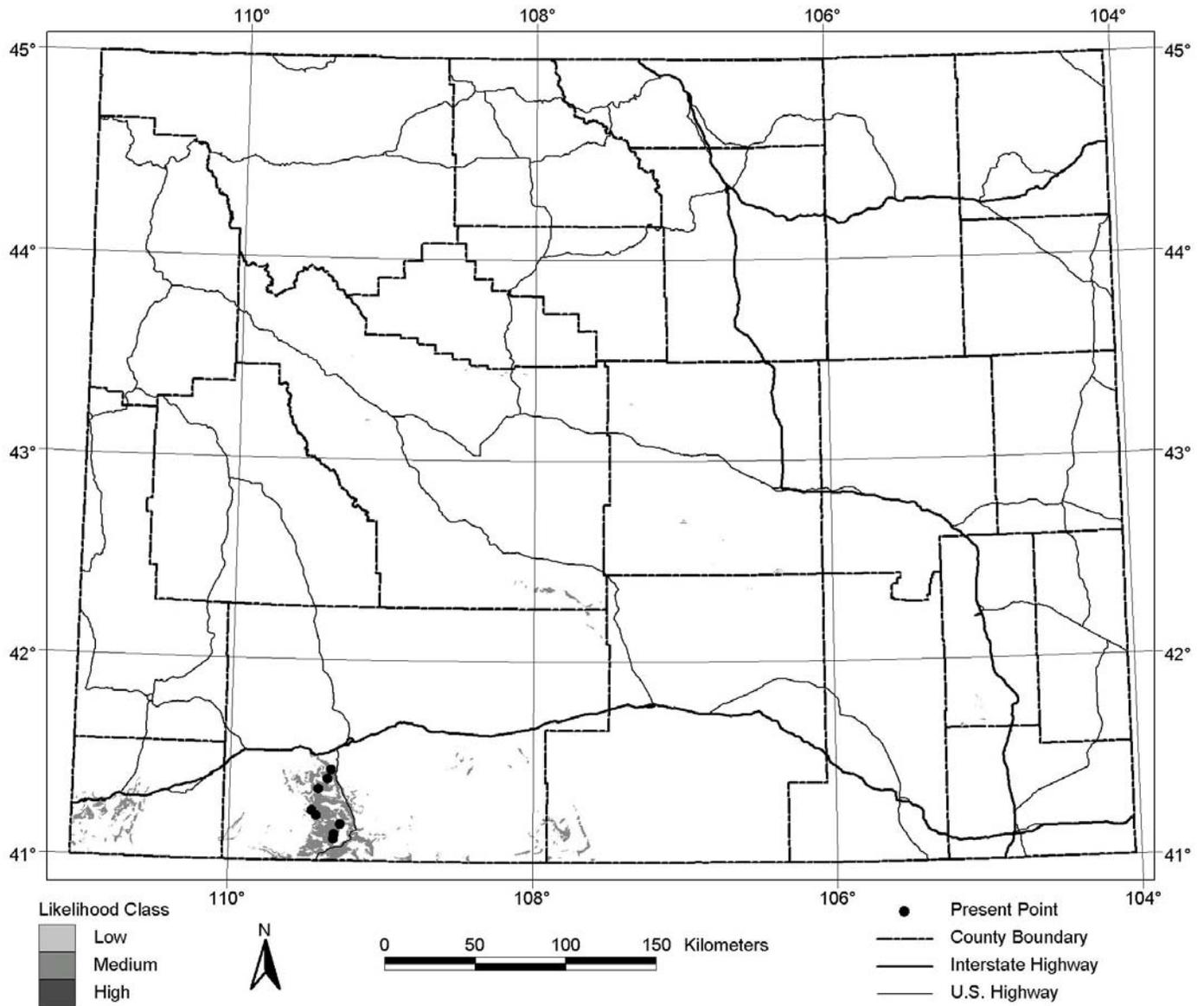
Classification Tree Output

Node_Num) Node_Def Node_Size (Num_No,Num_Yes)
(Pct_No,Pct_Yes) Node_Type
1) root 969 (961,8) (100,100) Yes
2) RT01<7.435 755 (755,0) (78.6,0) No *
3) RT01>7.435 214 (206,8) (21.4,100) Yes
6) RELIEF<108.5 150 (150,0) (15.6,0) No *
7) RELIEF>108.5 64 (56,8) (5.8,100) Yes
14) BEDGEOL:Eol,Kmix,Kss,MiPI,PCf,PTJ,Pal,Pze,Qt
36 (36,0) (3.7,0) No *
15) BEDGEOL:Eoe,TQc 28 (20,8) (2.1,100) Yes
30) TA01<-7.30 13 (13,0) (1.4,0) No *
31) TA01>-7.30 15 (7,8) (0.7,100) Yes *

Path Composition and Likelihood

Yes Path	Node List	% of Present Points	Likelihood Class
a	31, 15, 7, 3	100.0	Medium

Predicted Distribution in Wyoming



Classification Rates

Model-Building Points

	Model Present	Model Absent		
Known Present	7 / 8 87.5%	1 / 8 12.5%	Total	961 / 969
Known Absent	7 / 961 0.7%	954 / 961 99.3%	Total	8 / 969
			Correct	99.2%
			Incorrect	0.8%

Validation Points

	Model Present	Model Absent		
Known Present	0 / 0	0 / 0	Total	172 / 172
Known Absent	0 / 172 0.0%	172 / 172 100.0%	Total	0 / 172
			Correct	100.0%
			Incorrect	0.0%

Area of Predicted Distribution: 1,499 km² (0.59% of WY)