Code for suitability functions and graphs

Dominic LaRoche

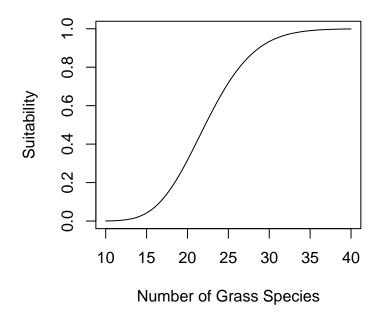
September 14, 2012

1 Dr. Dave Ellis

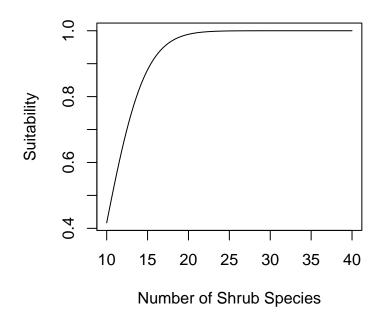
Shrub forb and grass diversity as described by Dr. Dave Ellis all follow a Gamma CDF.

1.1 Shrub, Forb, and Grass Diversity

DeEquiption dquatiption description



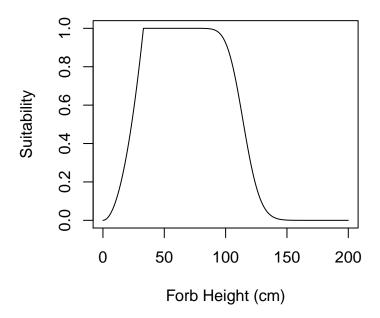
Descrip**Eiqu**ation



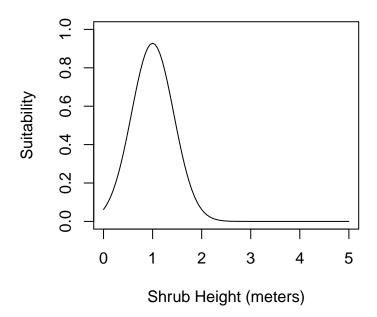
Descrip Eignation

1.2 Forb Height

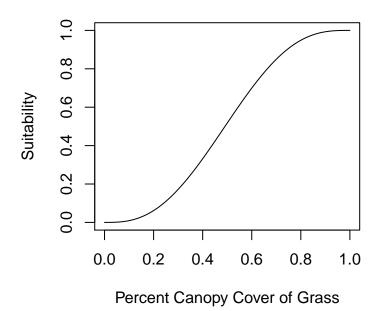
The optimal forb height, as described by Dr. Ellis, is a 3 part function.

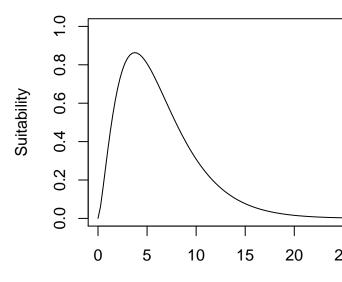


1.3 Shrub Height

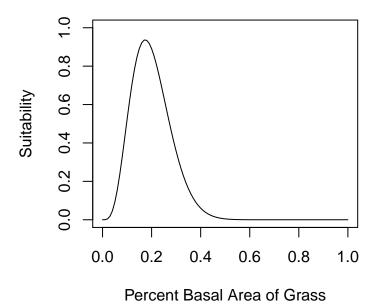


1.4 Grass Cover

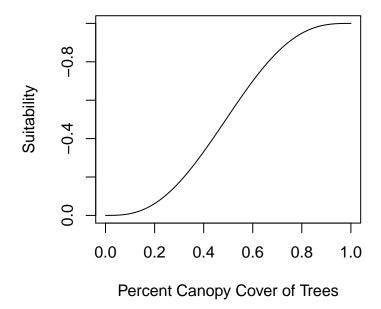




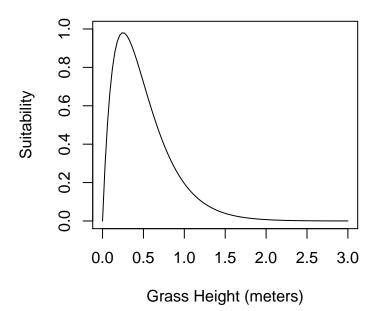
Distance to complete obstruction of visibi



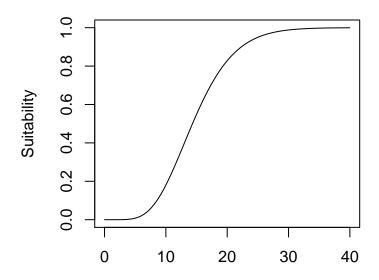
1.5 Tree Cover



1.6 Grass Height

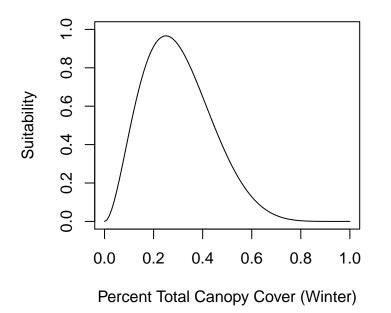


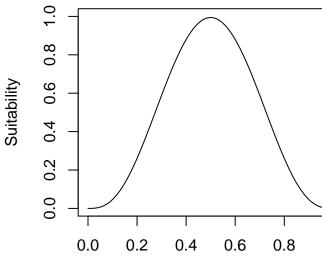
1.7 Structural Diversity



Structural Diversity measured as Number of Specie

1.8 Total Cover



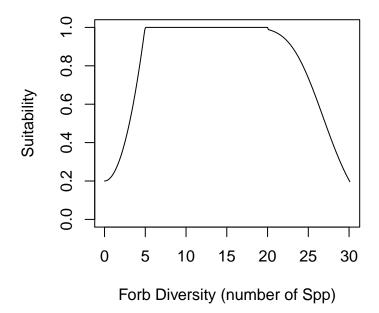


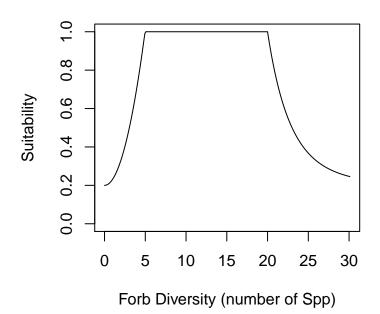
Percent Total Canopy Cover (Summe

2 John Goodwin

2.1 Forb Diversity

2.1.1 with gamma

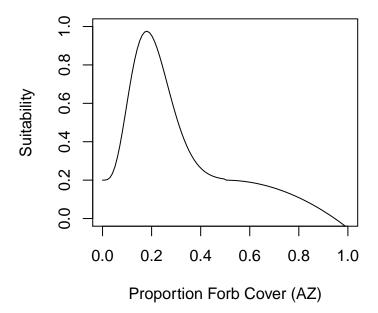




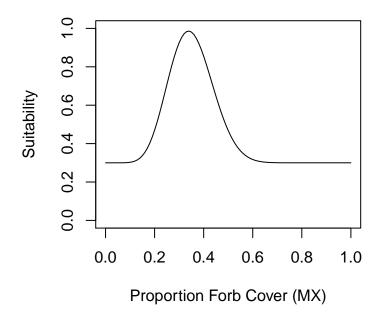
subsubsectionsimple quadratic

2.2 Forb Cover

2.2.1 Arizona

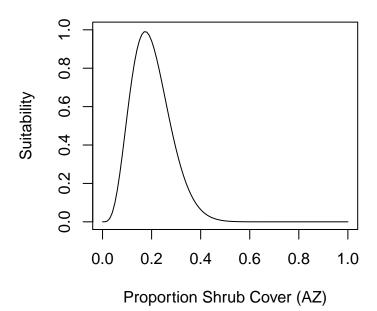


2.2.2 Mexico

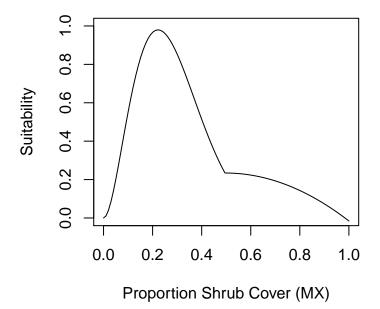


2.3 Shrub Cover

2.3.1 Arizona

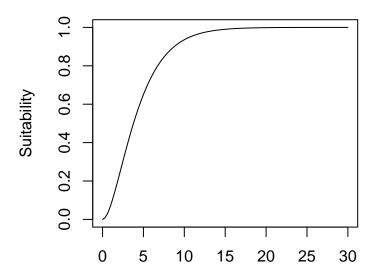


2.3.2 Mexico



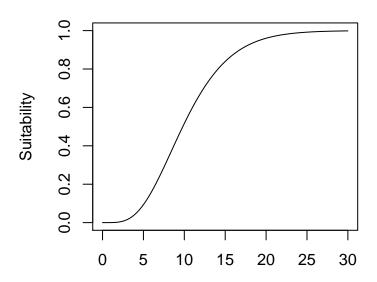
2.4 Grass Diversity

2.4.1 Mexico



Grass Diversity in Mexico (number of species)

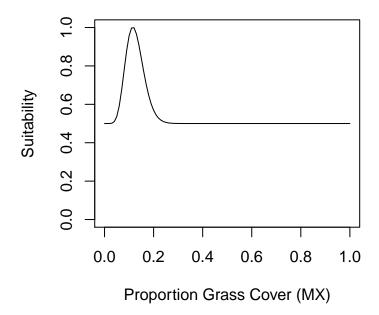
2.4.2 Arizona



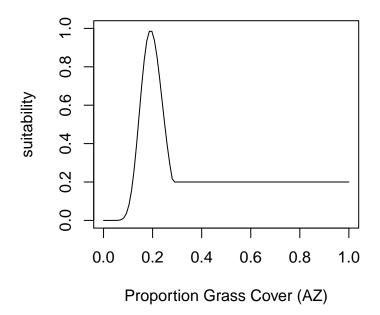
Grass Diversity in Arizona (number of species)

2.5 Grass Cover

2.5.1 Mexico

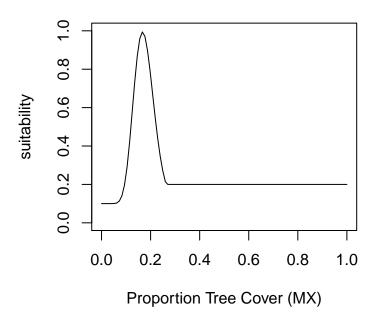


2.5.2 Arizona

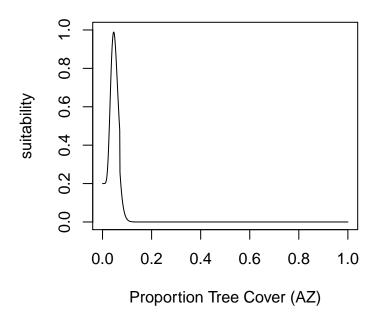


2.6 Tree Cover

2.6.1 Mexico

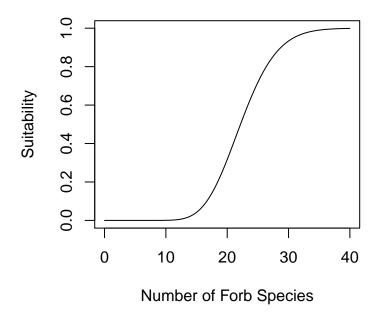


2.6.2 Arizona



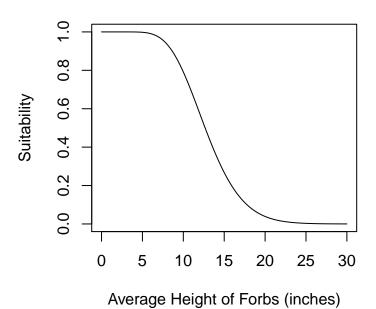
3 Sally Gall and Dan Cohan

3.1 Forb Diveristy

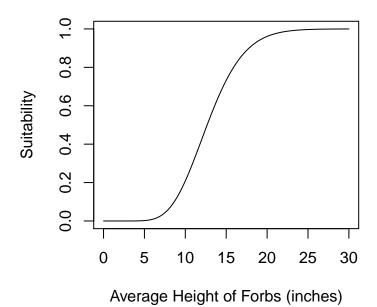


3.2 Forb Height

3.2.1 Spring

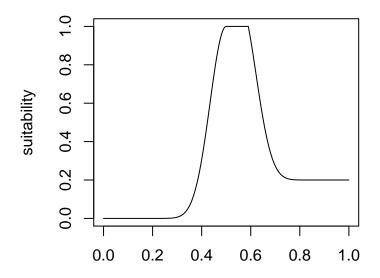


3.2.2 Fall



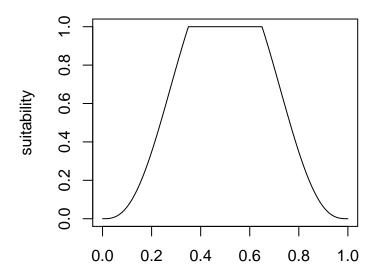
3.3 Forb Cover

3.3.1 Fall



Proportion Grass Cover in Fall and Winter

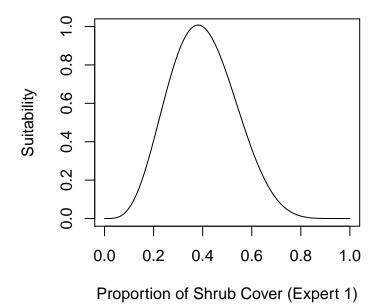
3.3.2 Spring



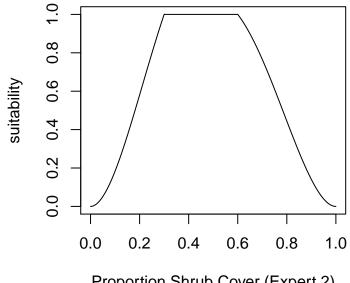
Proportion Grass Cover in Spring and Summer

3.4 Shrub Cover

3.4.1 Dan Cohan

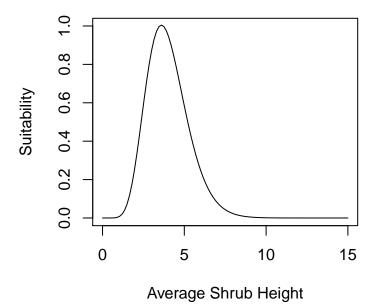


3.4.2 Sally Gall



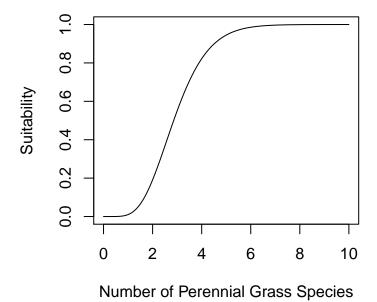
Proportion Shrub Cover (Expert 2)

Shrub Height 3.5

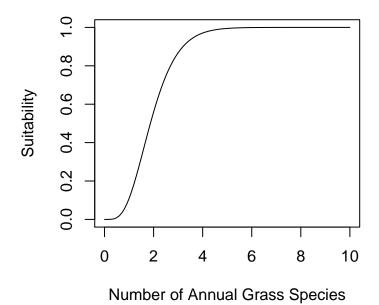


3.6 Grass Diversity

3.6.1 Perrenial

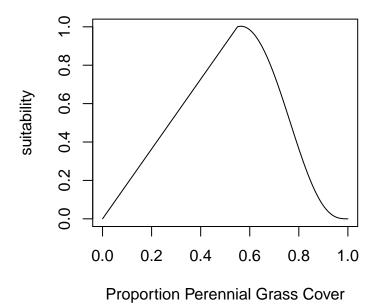


3.6.2 Annual

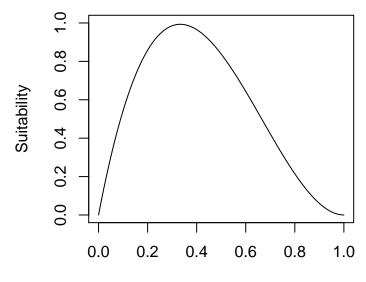


3.7 Grass Cover

3.7.1 Perrenial



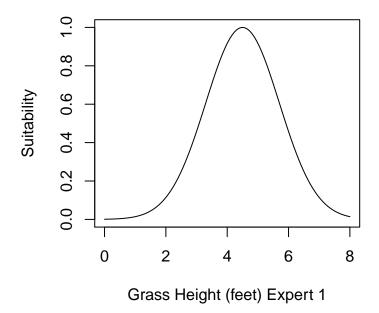
3.7.2 Annual



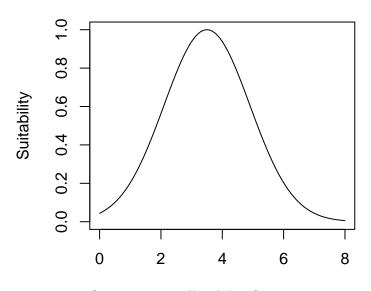
Proportion of Annual Grass Cover

3.8 Grass Height

3.8.1 Dan Cohan

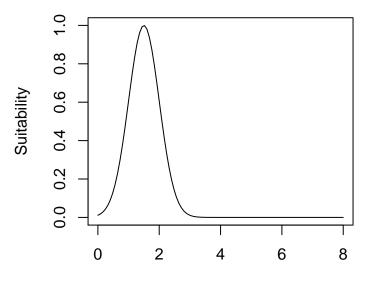


3.8.2 Sally Gall



Grass Height (feet) for Cover Expert 2

Grass Height for Cover

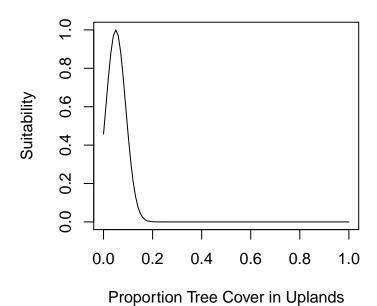


Grass Height (feet) for Nesting Expert 2

Grass Height for Nesting

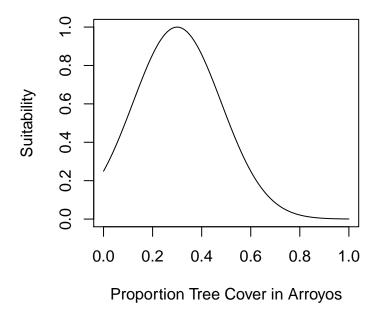
3.9 Tree Cover

3.9.1 Uplands

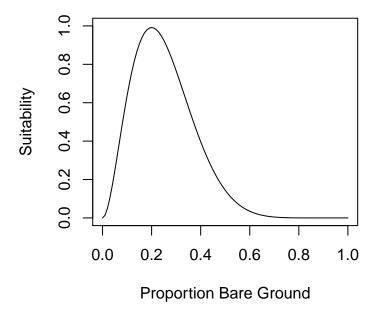


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3.9.2 Arroyos

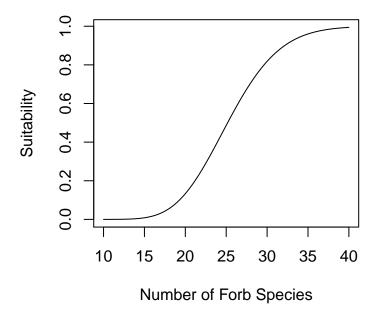


3.10 Bare Ground

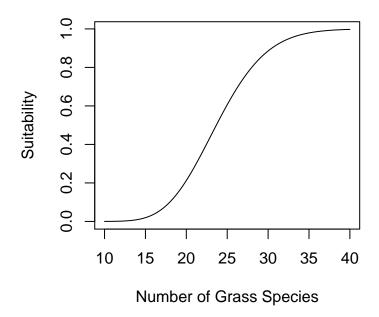


4 Roy Tomlinson

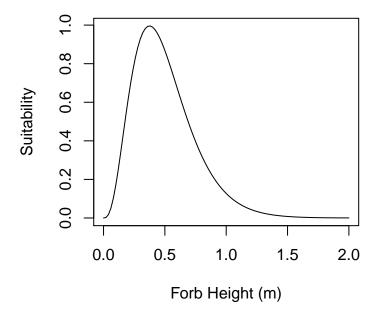
4.1 Forb Diveristy



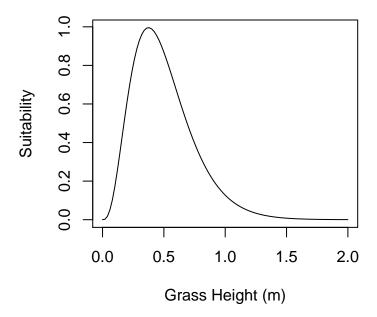
4.2 Grass Diversity



4.3 Forb Height

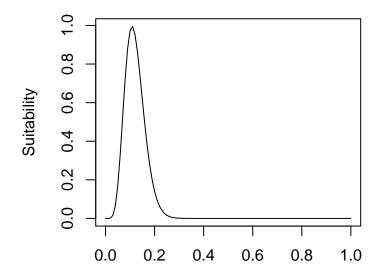


4.4 Grass Height



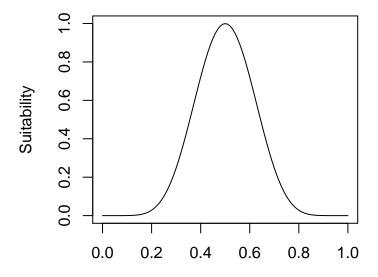
4.5 Tree/Shrub Cover

4.5.1 Summer



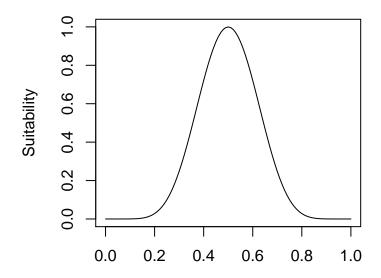
Proportion Shrub/Tree Cover in Summer

4.5.2 Winter



Proportion Shrub/Tree Cover in Winter

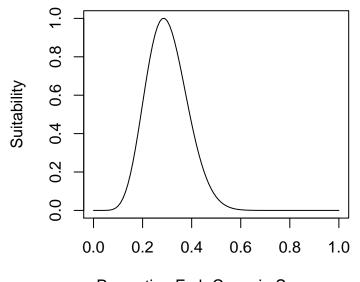
4.6 Grass Cover



Proportion Grass Cover in Winter and Summer

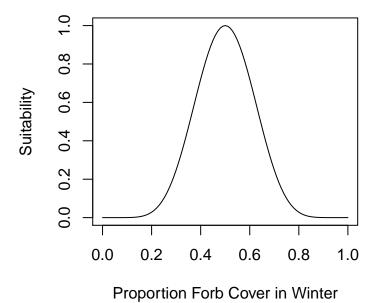
4.7 Forb Cover

4.7.1 Summer



Proportion Forb Cover in Summer

4.7.2 Winter



4.8 Bare Ground

