

# Code for suitability functions and graphs

Dominic LaRoche

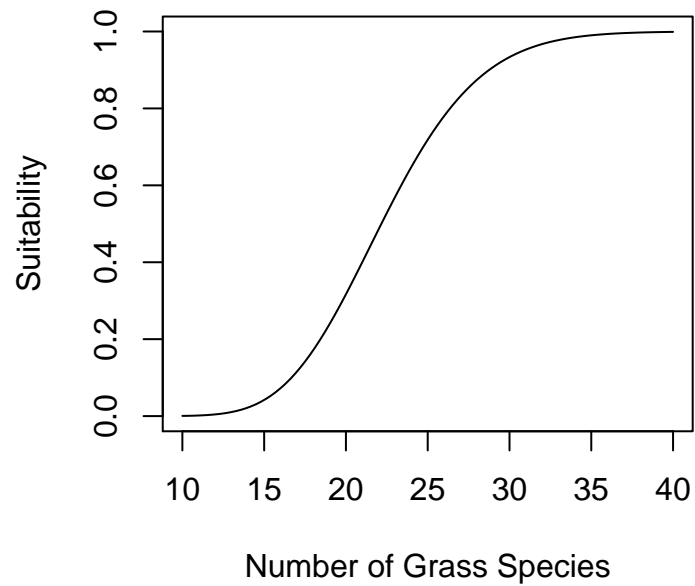
September 14, 2012

## **1 Dr. Dave Ellis**

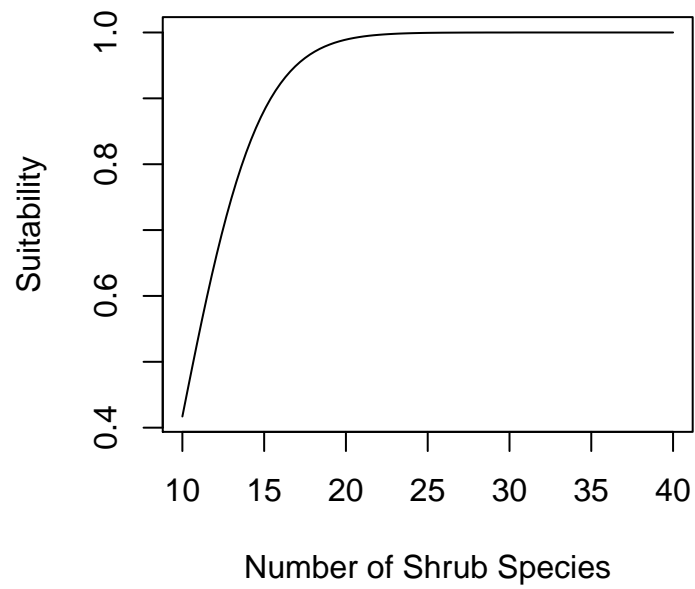
Shrub forb and grass diversity as described by Dr. Dave Ellis all follow a Gamma CDF.

## 1.1 Shrub, Forb, and Grass Diversity

*Descriptiondescription*



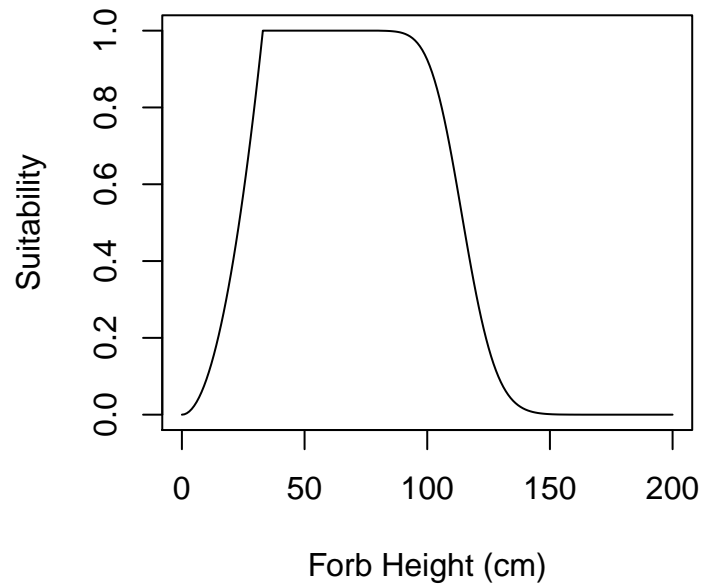
*Description*



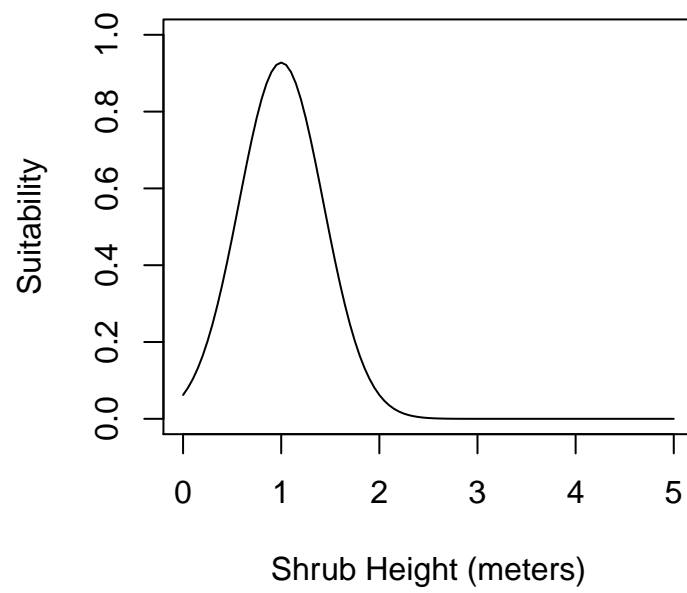
*Description*

## 1.2 Forb Height

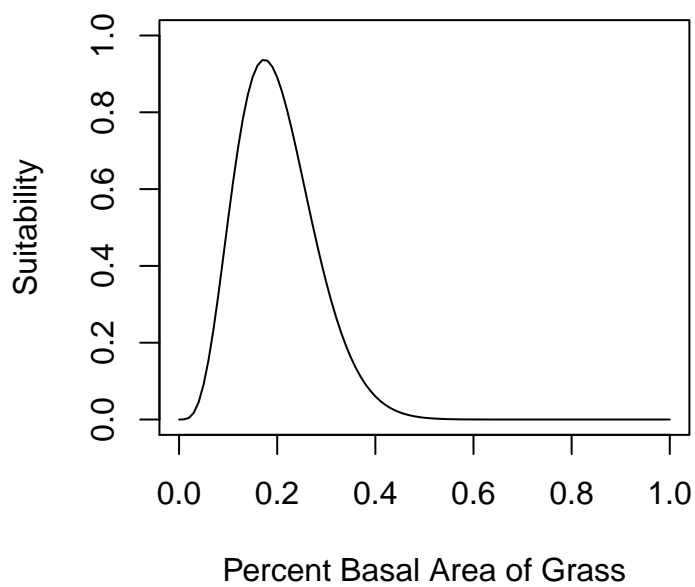
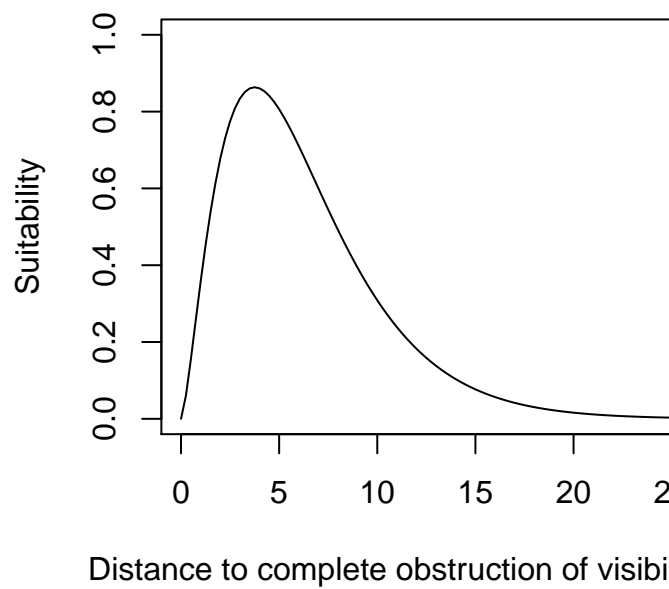
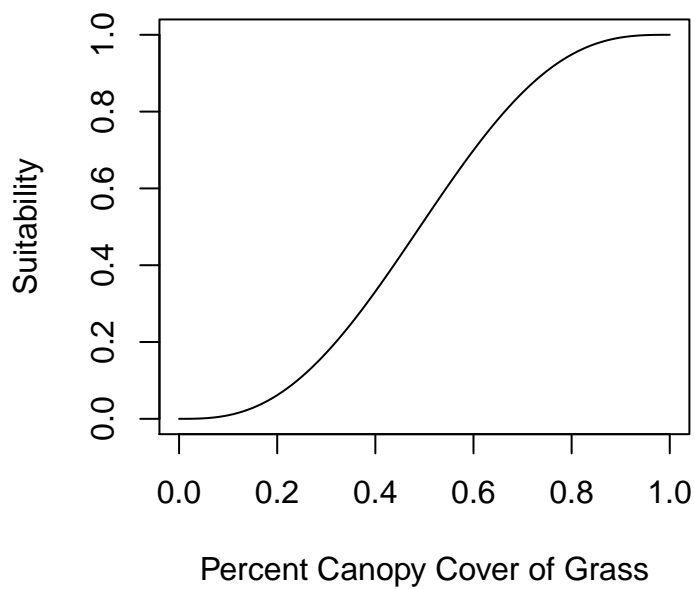
The optimal forb height, as described by Dr. Ellis, is a 3 part function.



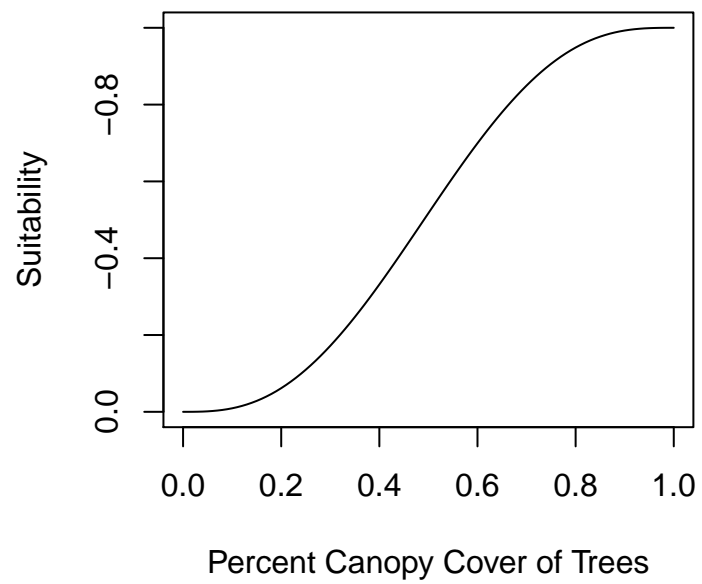
## 1.3 Shrub Height



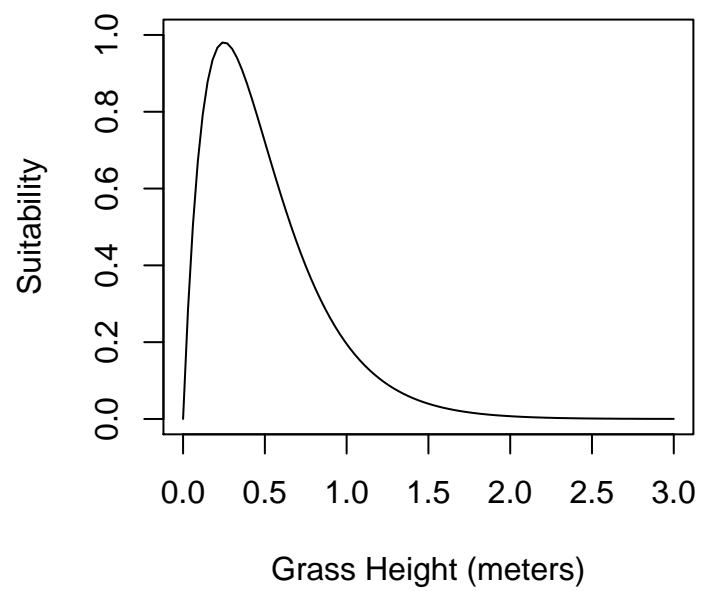
#### 1.4 Grass Cover



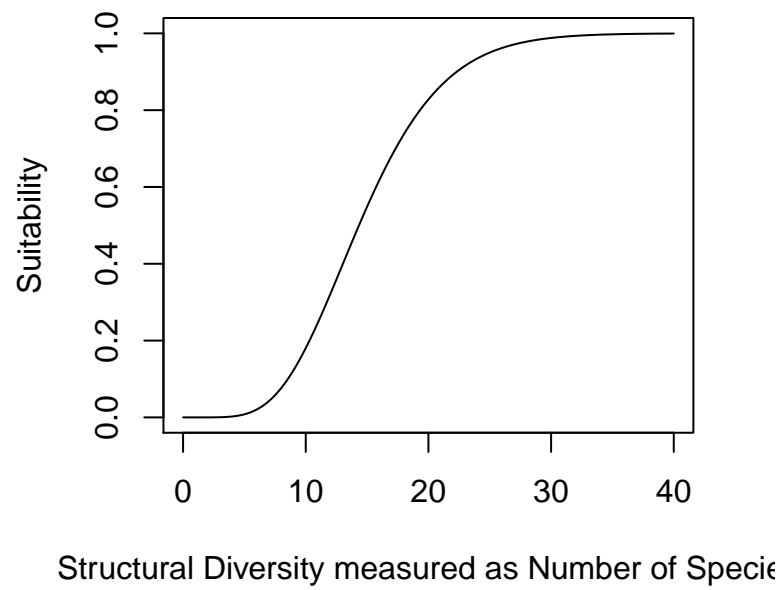
## 1.5 Tree Cover



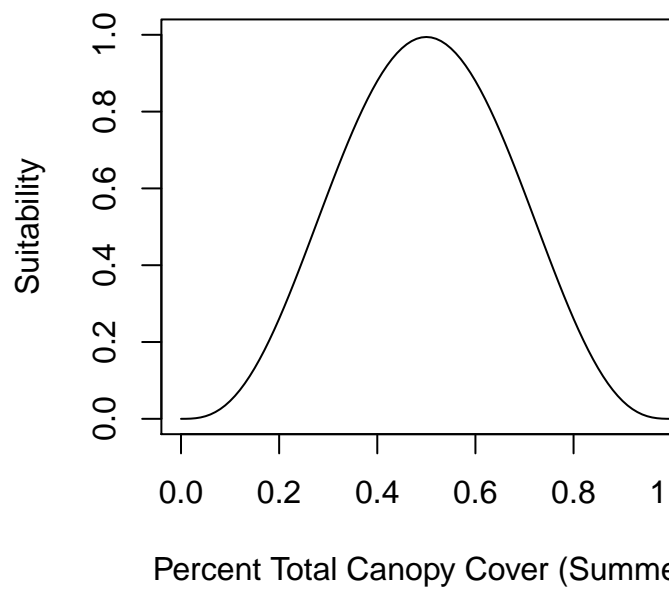
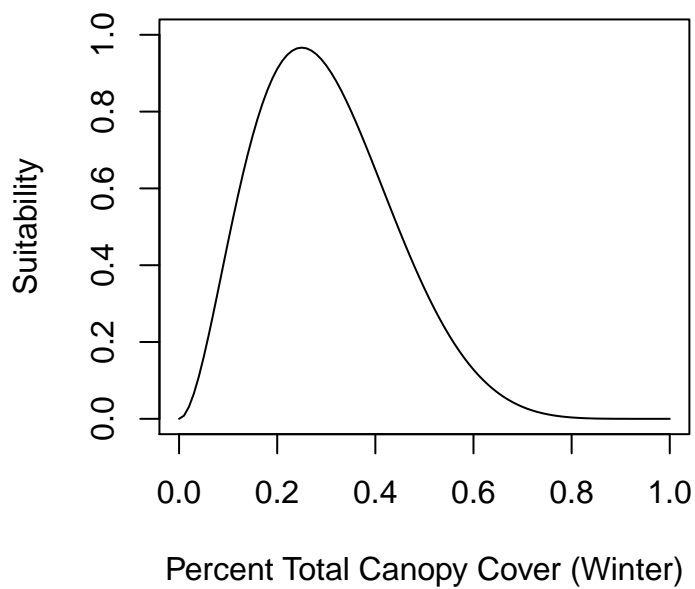
## 1.6 Grass Height



## 1.7 Structural Diversity



## 1.8 Total Cover

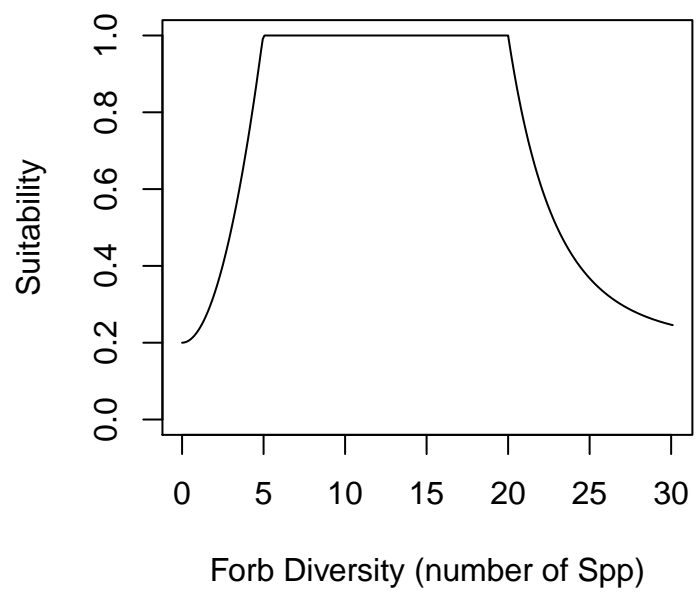
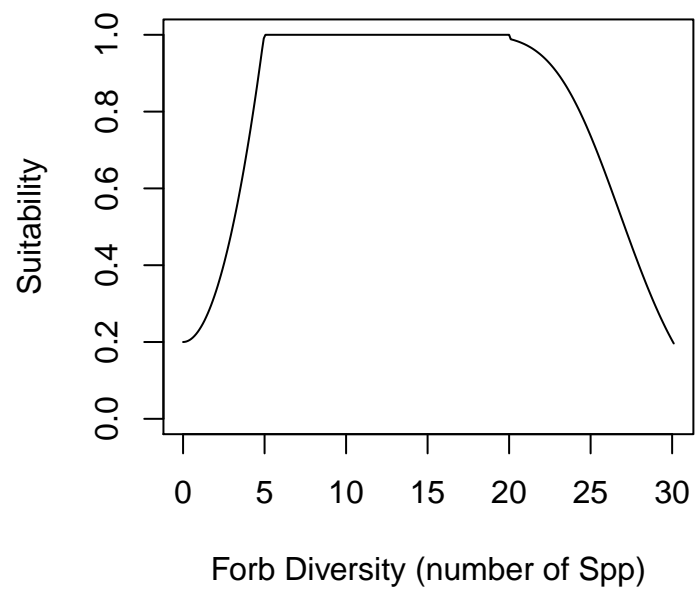


## 2 John Goodwin

### 2.1 Forb Diversity

#### 2.1.1 with gamma

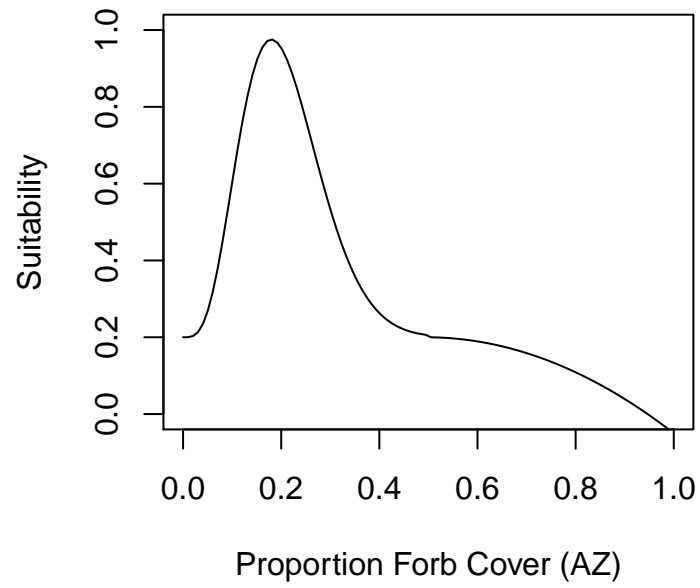




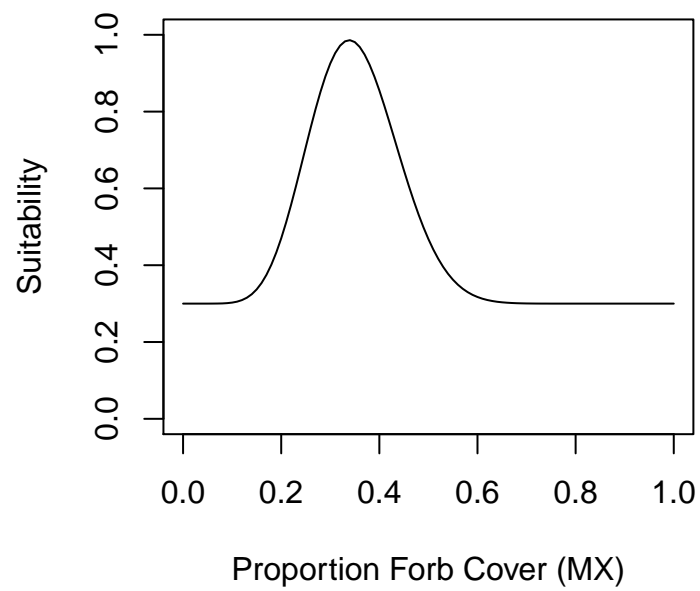
subsubsectionsimple quadratic

## 2.2 Forb Cover

### 2.2.1 Arizona

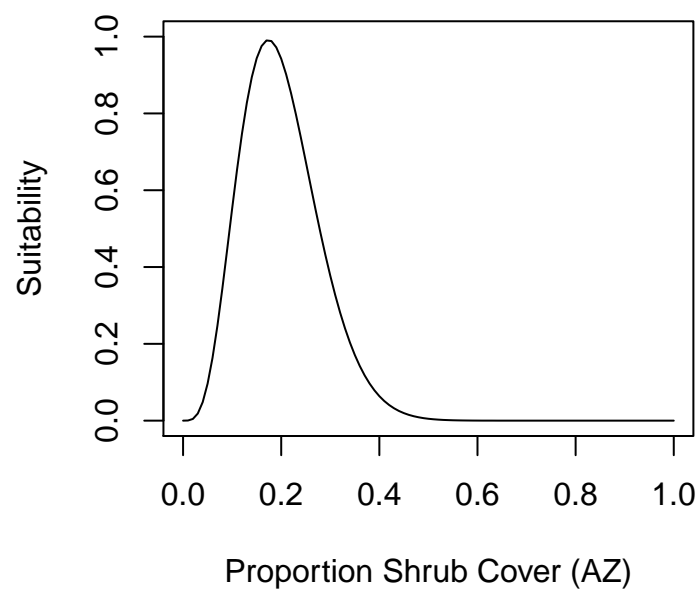


### 2.2.2 Mexico

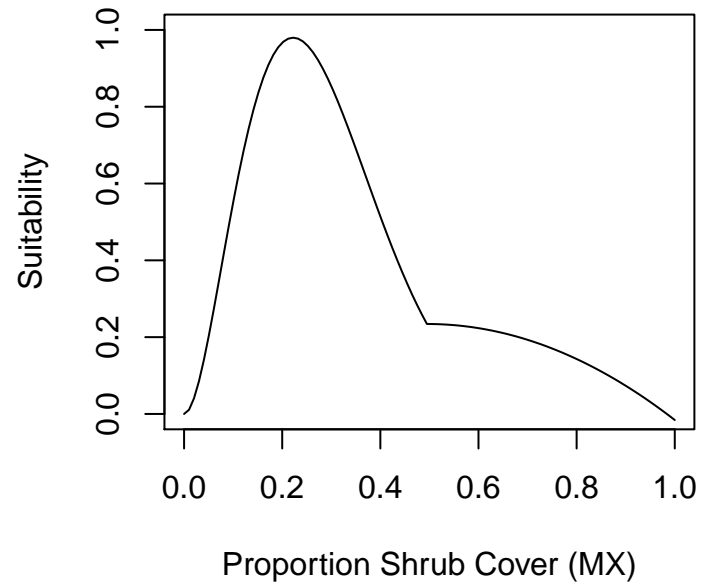


## 2.3 Shrub Cover

### 2.3.1 Arizona

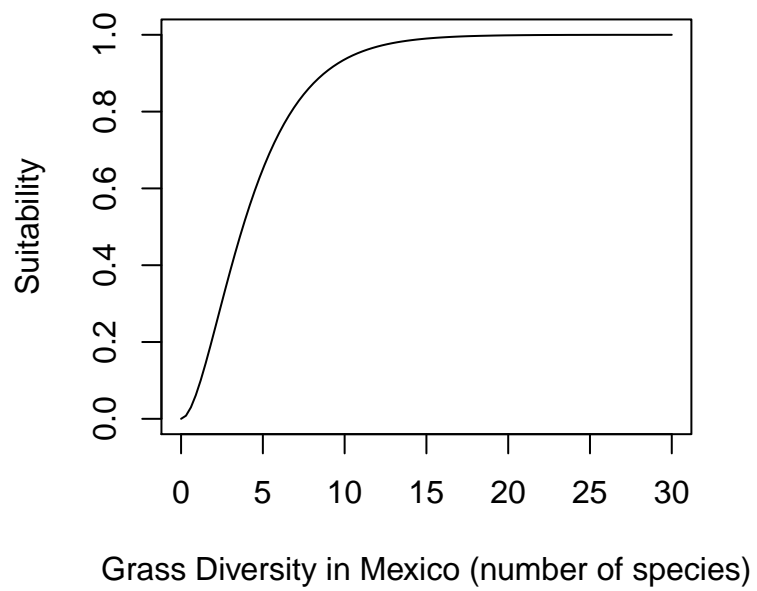


### 2.3.2 Mexico

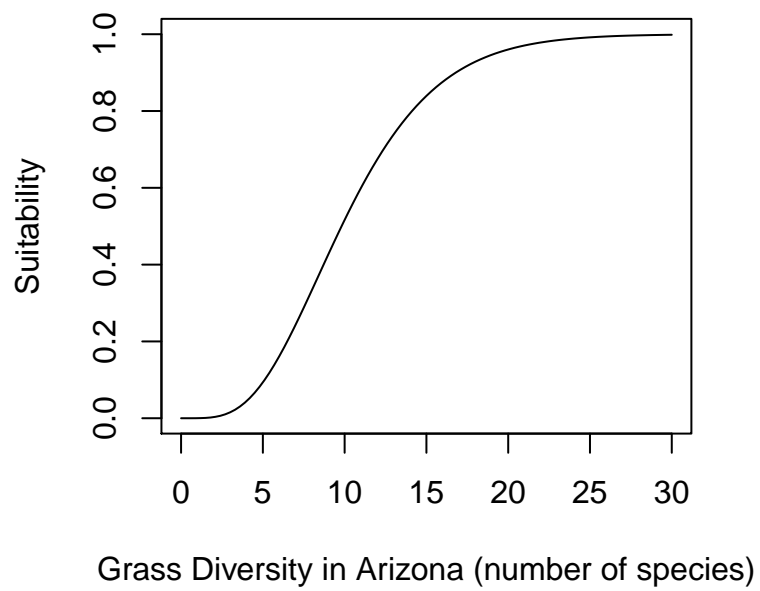


## 2.4 Grass Diversity

### 2.4.1 Mexico

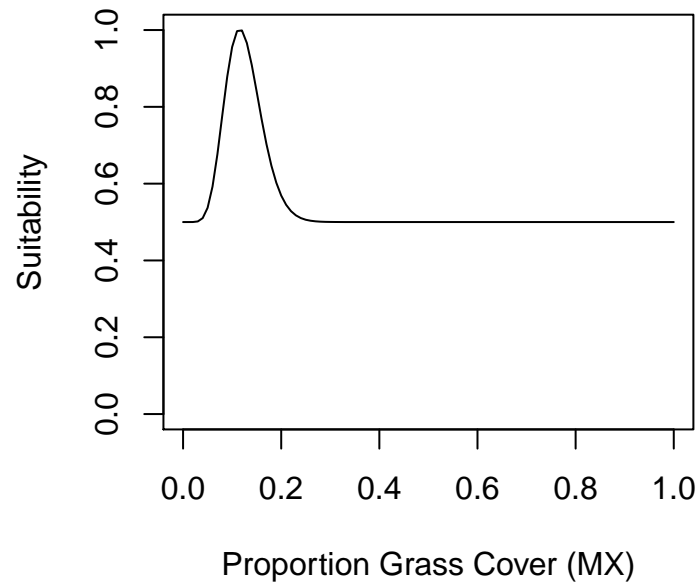


#### 2.4.2 Arizona

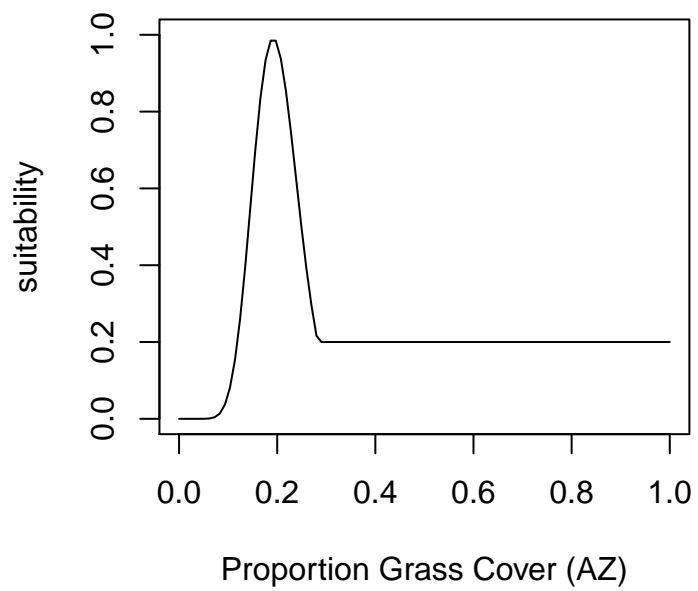


## 2.5 Grass Cover

### 2.5.1 Mexico

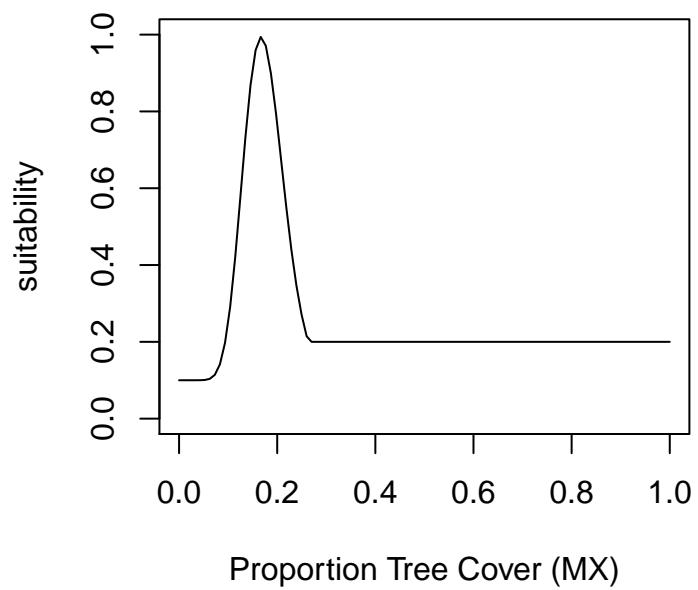


### 2.5.2 Arizona

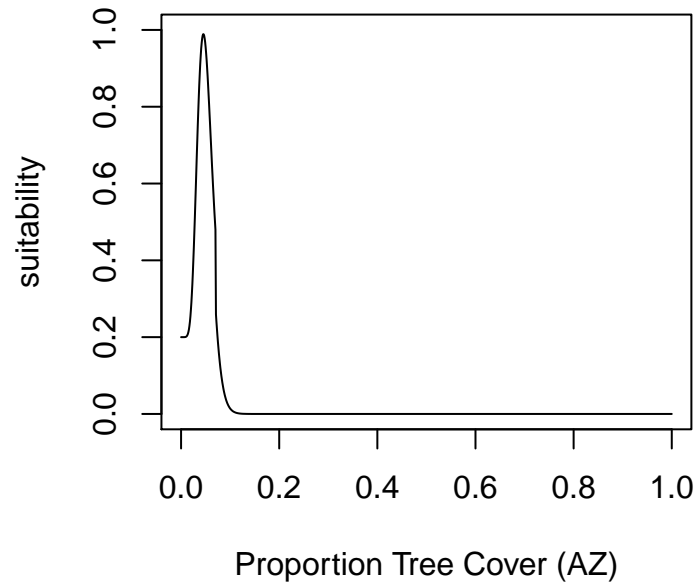


## 2.6 Tree Cover

### 2.6.1 Mexico



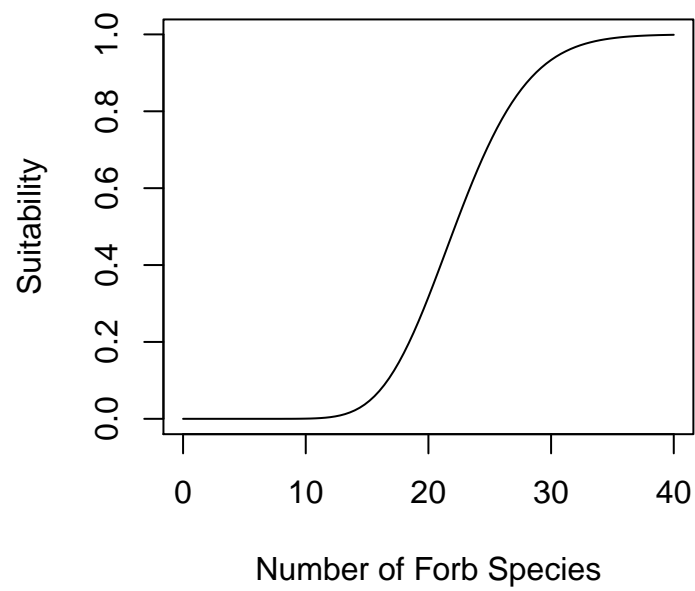
### 2.6.2 Arizona



## 3 Sally Gall and Dan Cohan

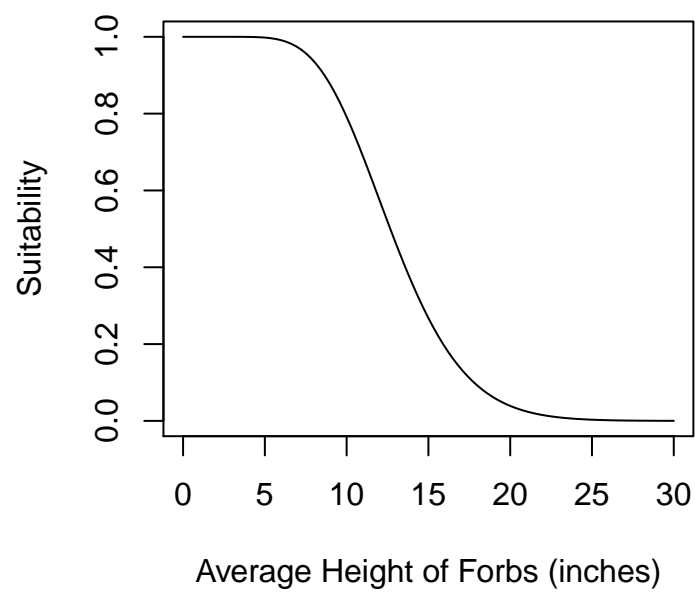
### 3.1 Forb Diveristy



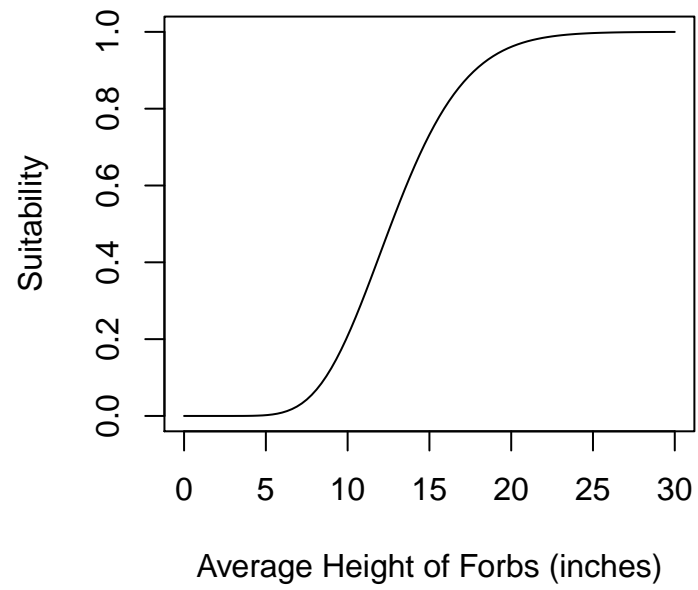


## 3.2 Forb Height

### 3.2.1 Spring

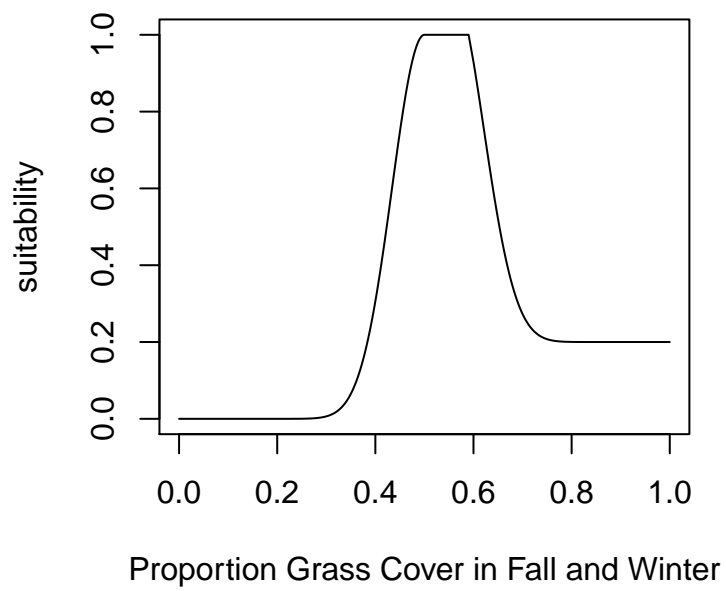


### 3.2.2 Fall

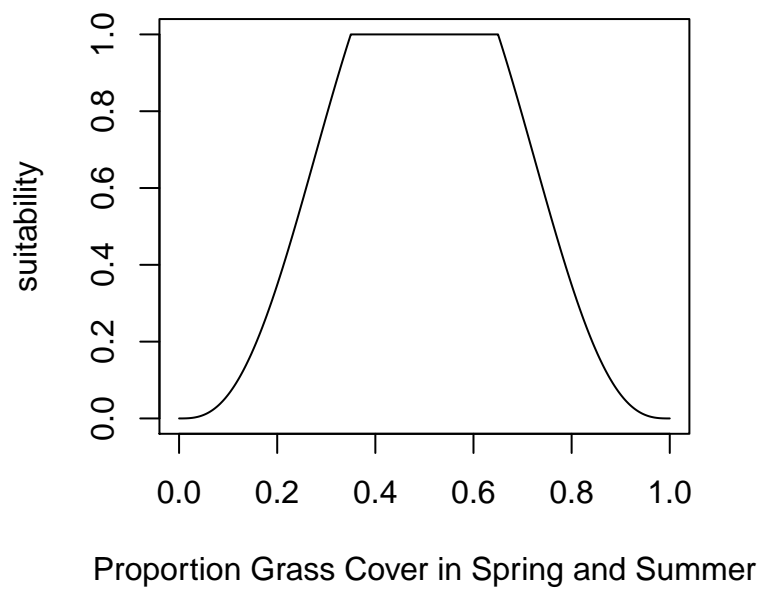


## 3.3 Forb Cover

### 3.3.1 Fall

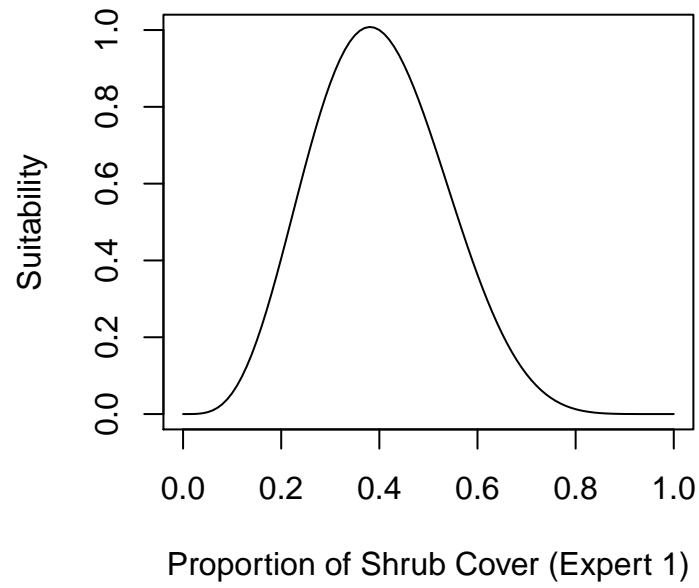


### 3.3.2 Spring

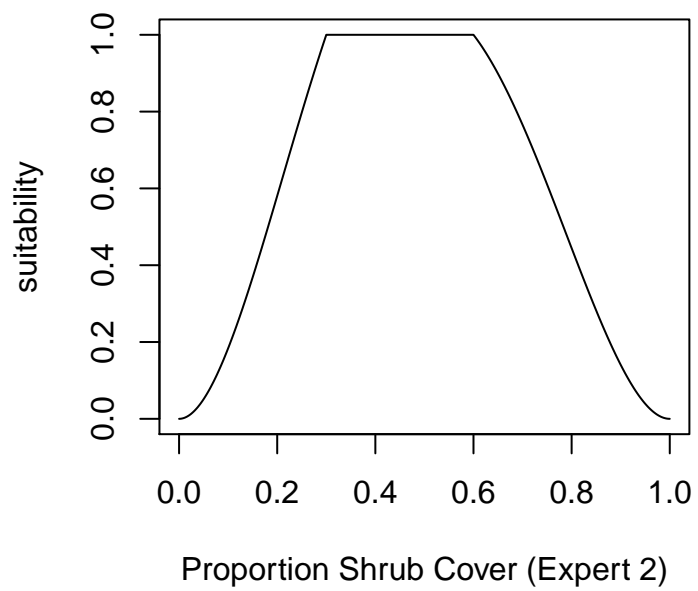


### 3.4 Shrub Cover

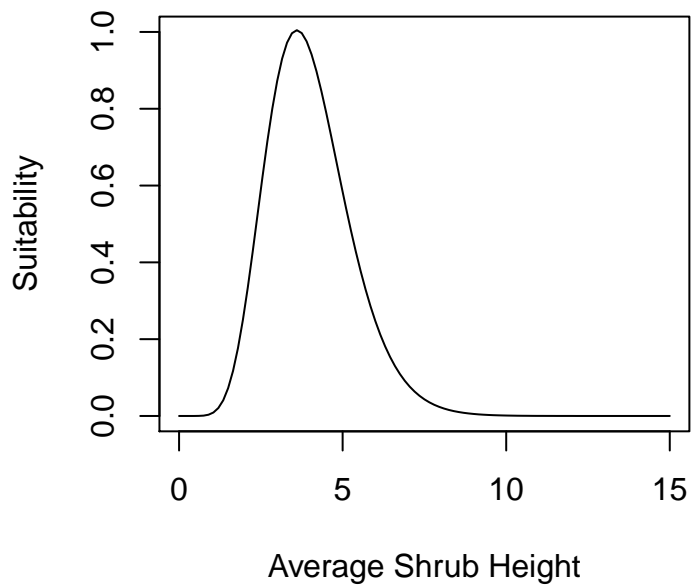
#### 3.4.1 Dan Cohan



#### 3.4.2 Sally Gall

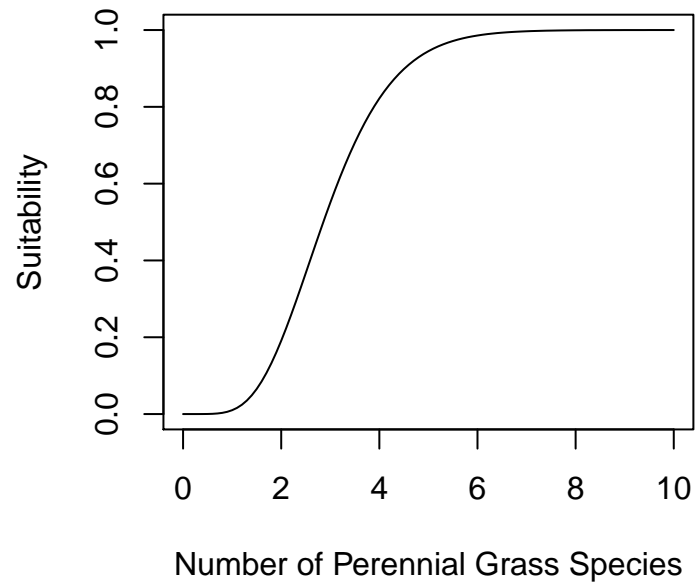


### 3.5 Shrub Height

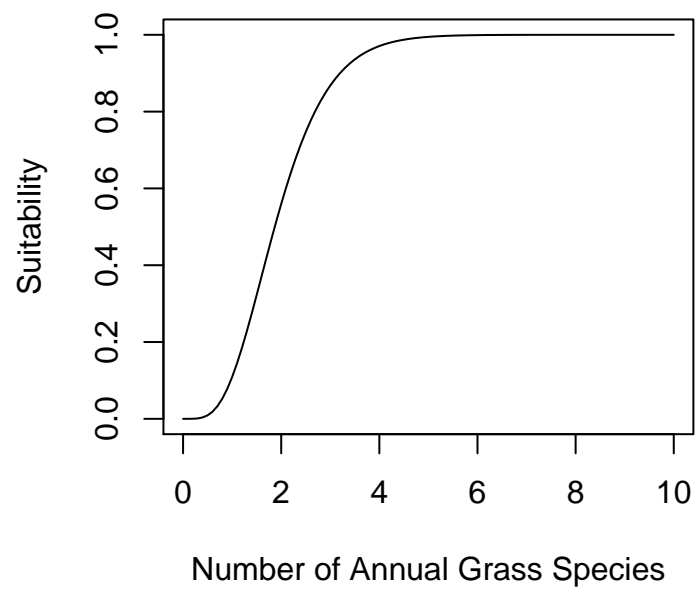


## 3.6 Grass Diversity

### 3.6.1 Perrenial

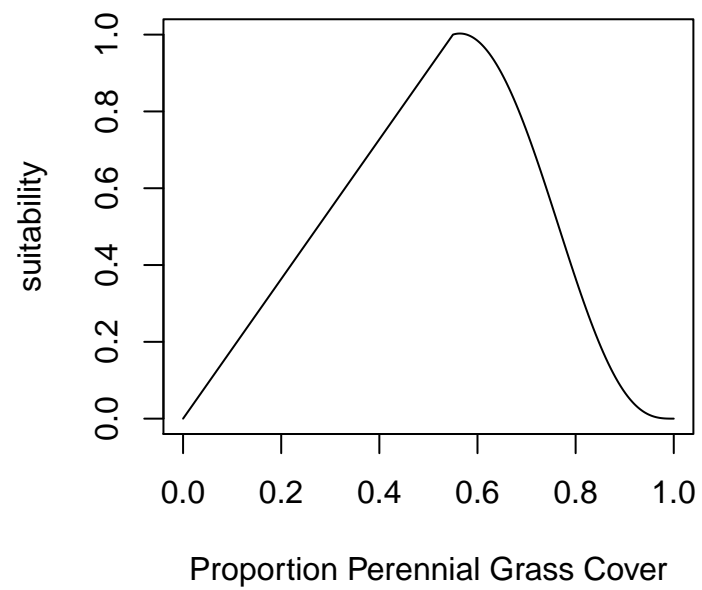


### 3.6.2 Annual

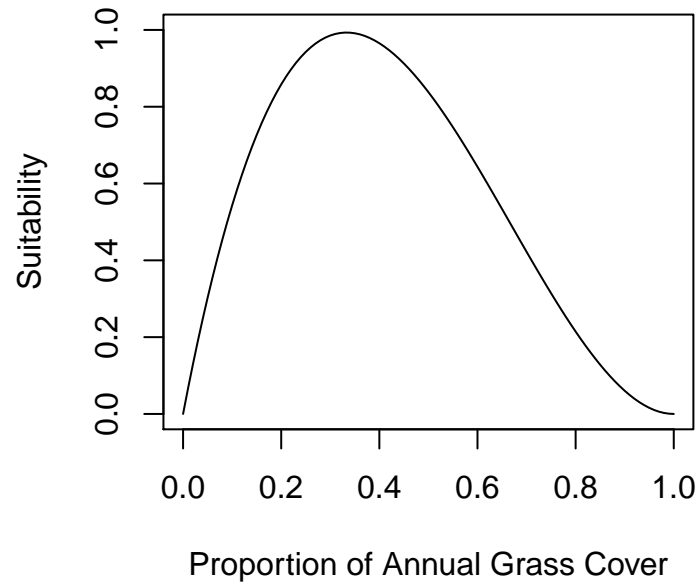


### 3.7 Grass Cover

#### 3.7.1 Perennial



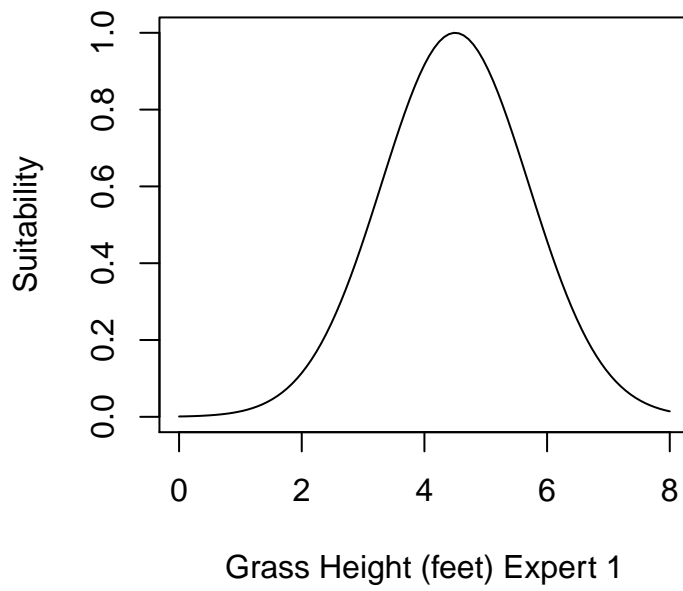
### 3.7.2 Annual



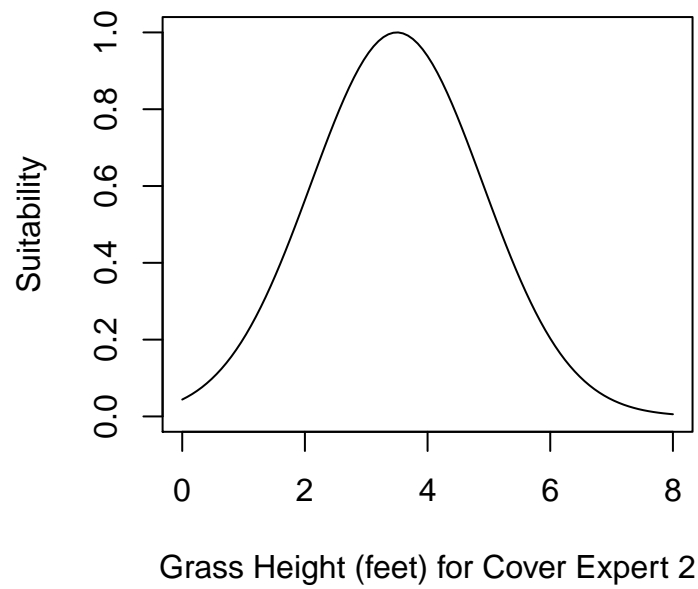
## 3.8 Grass Height

### 3.8.1 Dan Cohan

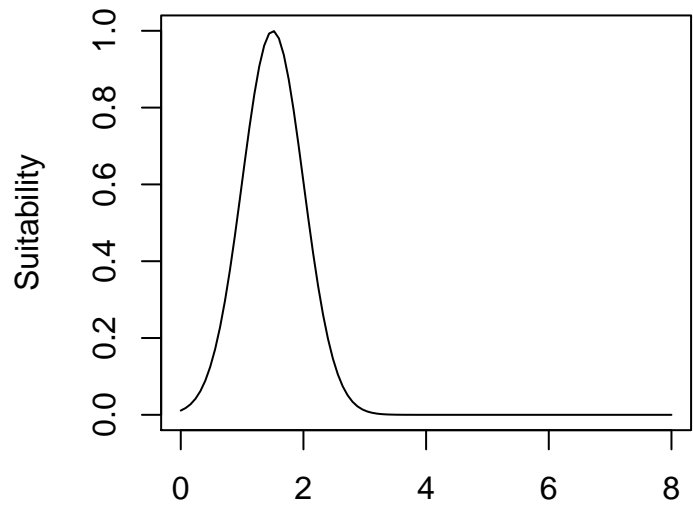




### 3.8.2 Sally Gall



Grass Height for Cover

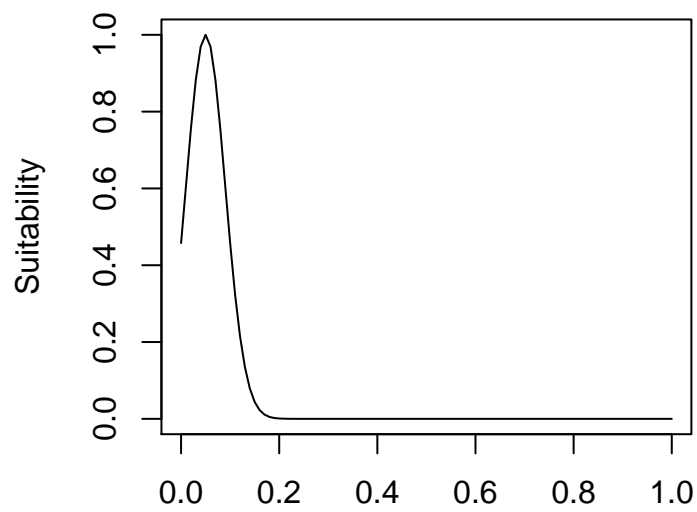


Grass Height (feet) for Nesting Expert 2

Grass Height for Nesting

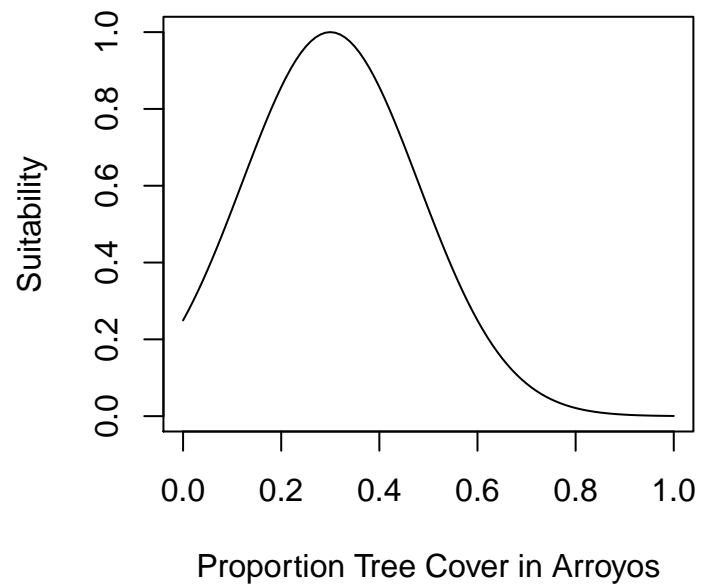
### 3.9 Tree Cover

#### 3.9.1 Uplands

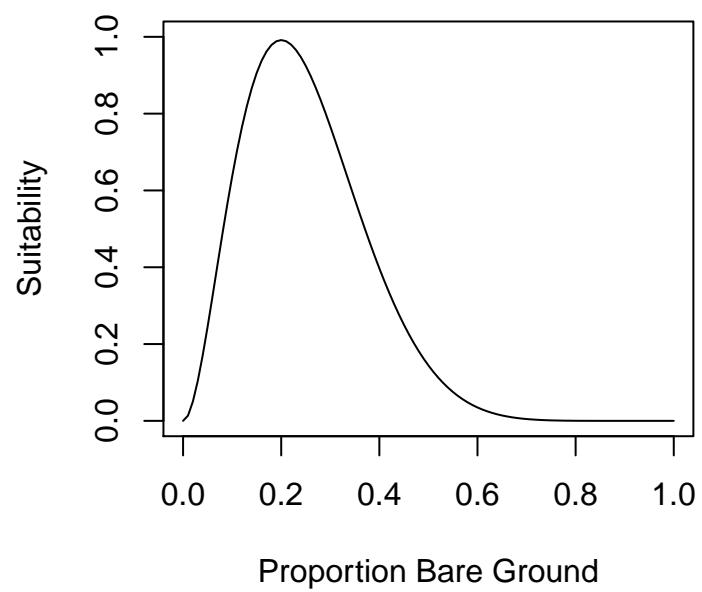


Proportion Tree Cover in Uplands

### 3.9.2 Arroyos

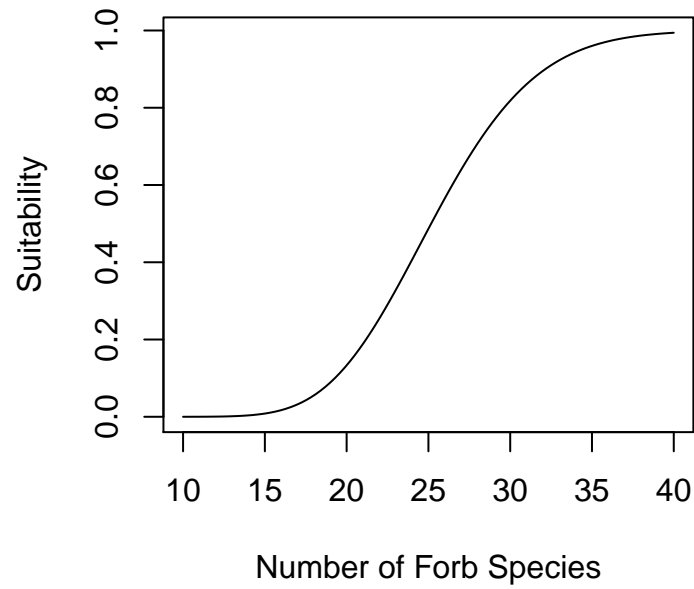


### 3.10 Bare Ground

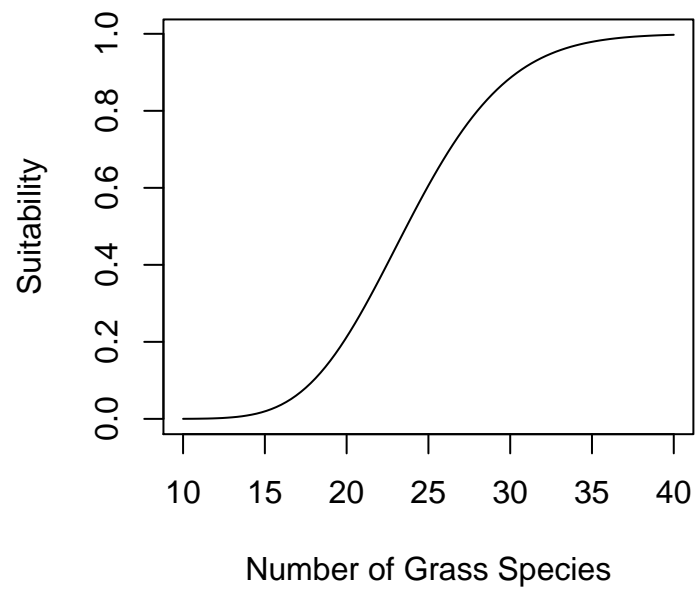


## 4 Roy Tomlinson

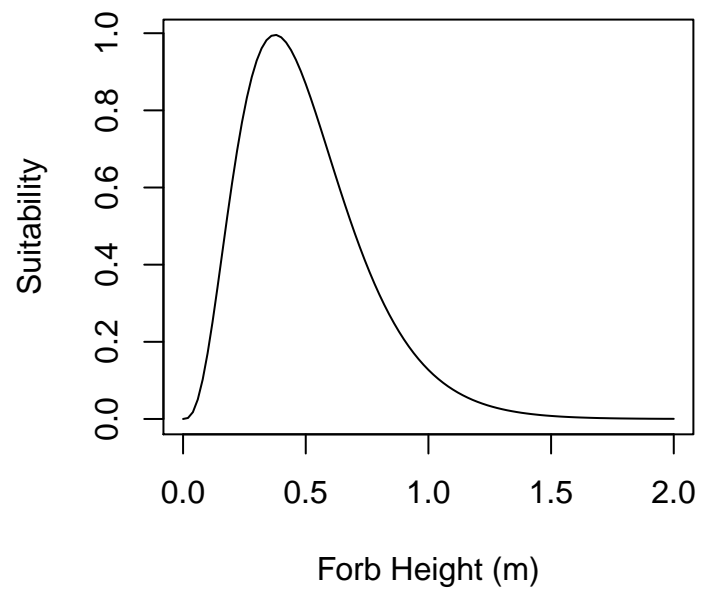
### 4.1 Forb Diveristy



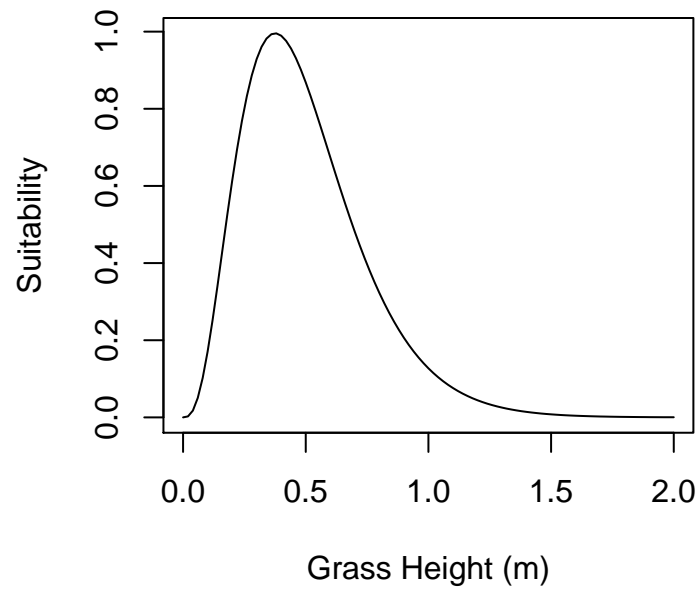
### 4.2 Grass Diversity



### 4.3 Forb Height

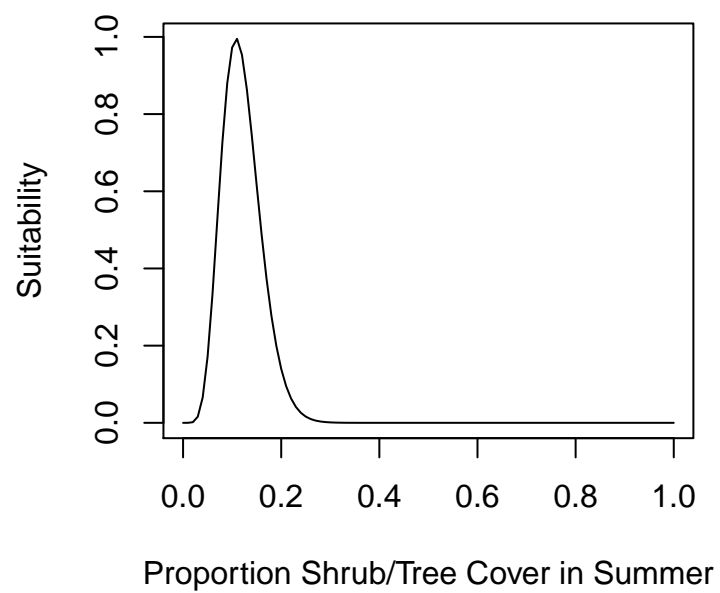


## 4.4 Grass Height

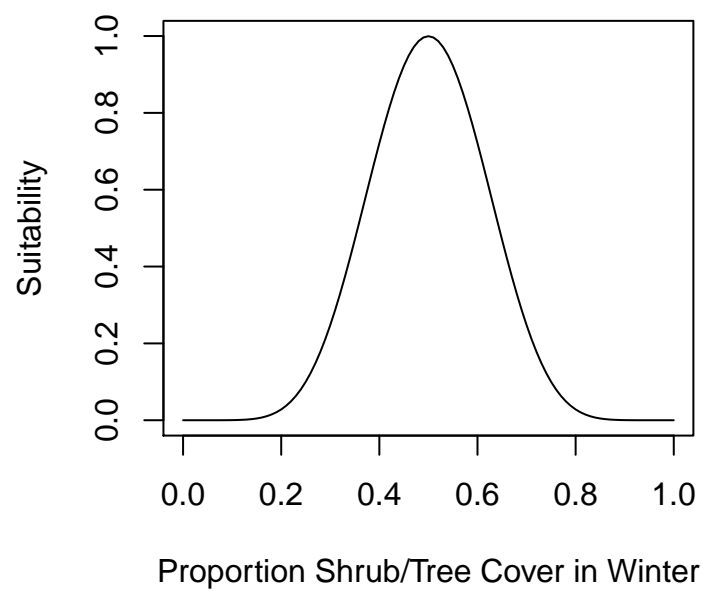


## 4.5 Tree/Shrub Cover

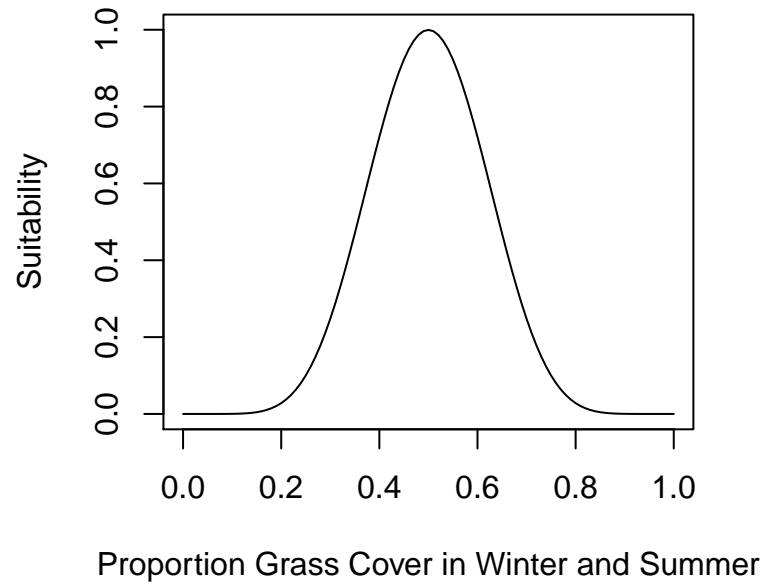
### 4.5.1 Summer



#### 4.5.2 Winter



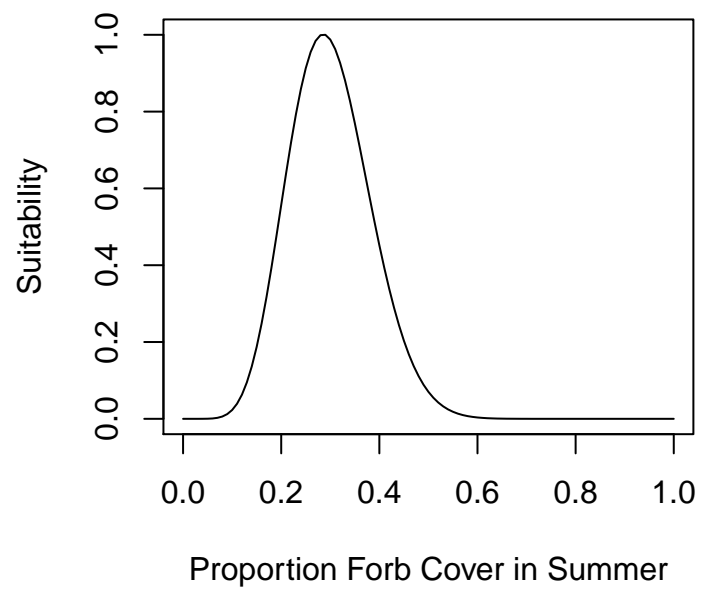
## 4.6 Grass Cover



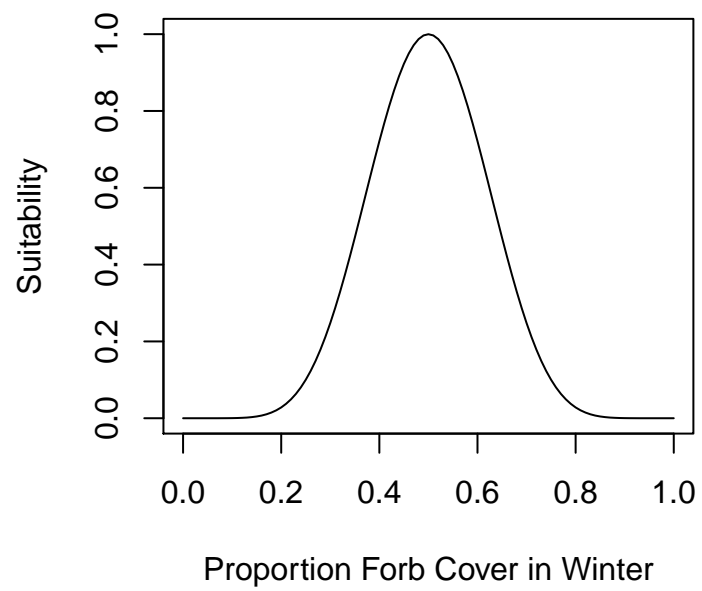
## 4.7 Forb Cover

### 4.7.1 Summer





#### 4.7.2 Winter



## 4.8 Bare Ground

