

Black Hills National Forest Travelways Mapping Exercise Summary March 28, 2007 (Amy Ballard, recreation forester)

The Black Hills National Forest “Travelways” Workshop Public Meetings were held on November 13-16, 2006. A product from these meetings was collecting forest site specific information from participants after they completed a mapping exercise. This exercise is sometimes referred to as the “dot matrix” form exercise.

The Travelways Meetings.

	Participants	Dot Forms Completed
Custer	69	105
Sundance	27	17
Spearfish	97	127
Rapid City	205	247
	Total: 398 Participants	Total: 496 Forms

The Mapping Exercise.

Participants were given self adhesive, colored dots with a number on them. After participants placed a dot on the Black Hills National Forest visitor map they placed the dot number on a one page form and then completed the form. The form tells us about the participant’s activities, values, concerns, and access needs of that particular location on the forest (see [Appendix A](#) for an example of the form). Participants were not limited to a certain number of dots and were not required to participate in the mapping exercise.

There were four questions on the form that participants completed to define the area on the map where they placed their dot.

1. What are the three things you value about this place?
2. What activities do you enjoy?
3. What are your concerns with this place?
4. What type of access is important to you?

Method to Summarize the Dot Forms.

A total of 496 forms were completed by 398 participants during the 4 meetings. The 496 dot forms were transferred word for word into an MS Access form in the computer by two Forest Service employees. In order to statistically analyze these responses the comments were then categorized. It is these categories that are summarized in this report. [Appendix B](#) defines the categories.

After the dots were digitized or placed on a forest map they were then grouped into nine different regions according to density and logical areas defined as recreation “hot spots”. The groupings allow both participants and forest recreation managers to more specifically define the values, activities, concerns and access needs for a specific area. For example, a participant that placed a dot in the Battle Creek area (categorized as region 7) can determine the similarities and differences between themselves and the other participants that placed “dots” in this region in

terms of values, activities, concerns and access. Forest travel and recreation managers can determine if visitors in different regions on their districts have similar or different needs than those of other regions on their districts.

A rough description of the nine regions and number of “dots” or responses in each region is shown below. *Appendix C* defines the nine region boundaries on a map.

Region	Number of “Dots”	Description
1	127	Black Hawk, Piedmont, Dalton Lake areas
2	34	North of Vanocker Canyon, East of Deadwood
3	37	Deadwood/Lead areas
4	99	West of Hwy 385, Pactola/Deerfield, south of Roubaix areas
5	56	Spearfish Canyon, Sand Creek areas
6	10	Bearlodge area
7	54	South of Rapid City, Battle Creek, Mt Rushmore, Sheridan Lake
8	37	West of Hwy 385, South of Pactola/Deerfield, Jasper Fire areas
9	42	South of Custer and Hwy 16

Dot Form Summary.

The four questions on the dot forms will first be summarized forest wide and then by region on a table. *Appendices D -M* summarize these results on pie charts.

Overall Response for all Regions – Forest-wide

Question 1. What are the 3 things you ***value*** about this place?

Overall, the values from the 7 categories in descending order of importance were: recreational opportunities, aesthetic, biodiversity/learning, special places/wilderness/intrinsic, spiritual/historical/cultural, life sustaining/therapeutic, and economic.

Question 2. What ***activities*** do you enjoy?

Overall, the activities from the 7 categories in descending order of importance were: view nature/visit historic places, nonmotorized activities, motorized activities, enjoy solitude, hunt and fish, spend time with family and friends, camping.

Question 3. What are your ***concerns*** with this place?

Overall, the concerns listed from the 7 categories in descending order of importance were: effects of OHV use, fear of closure to OHV use, too many people, disturbance to wildlife and plants, OHV off road use, Fear all areas open to OHV, access for all ages and abilities.

Question 4. What type of ***access*** is important to you?

Overall, the access needs listed from the 7 categories in descending order of importance were: walking, ATV, motorcycle, horseback riding, mountain bike, 4x4 stock, 4x4 modified.

The following table summarizes and compares the responses in descending order of importance for the overall forest wide response and all nine regions.

Region	Value	Activity	Concern	Access
Forest-Wide	recreational opportunities aesthetic biodiversity/learning sp place/wilderness/intrinsic spiritual/historical/cultural life sustaining/therapeutic economic	view nature/visit hist. nonmotorized motorized enjoy solitude hunt and fish time with family camping	effects of OHV use fear of closure to OHV too many people disturbance to wlf/plants OHV off road use fear all open to OHV accessibility	walking ATV motorcycle horseback ride mountain bike 4x4 stock 4x4 modified
1	recreation aesthetic biodiversity/learning sp place/wilderness/intrinsic life sustain/therapeutic spiritual/historical/cultural economic	view nature/visit hist nonmotorized motorized enjoy solitude hunt/fish time w/family camping	effects of OHV use too many people disturbance to wlf/plants fear of closure to OHV OHV off road fear all open to OHV accessibility	walking horseback ride motorcycle mountain bike ATV 4x4 modified 4x4 stock
2	recreation sp place/wilderness/intrinsic aesthetic biodiversity/learning spiritual/historical/cultural life sustain/therapeutic economic	view nature/visit hist motorized nonmotorized enjoy solitude camping hunt/fish time w/family	effects of OHV use fear of closure to OHV too many people disturbance to wlf/plants OHV off road fear all open to OHV accessibility	walking 4x4 modified ATV horseback ride motorcycle mountain bike 4x4 stock
3	recreation biodiversity/learning sp place/wilderness/intrinsic aesthetic life sustain/therapeutic spiritual/historical/cultural economic	view nature/visit hist nonmotorized motorized enjoy solitude hunt/fish camping time w/family	effects of OHV use disturbance to wlf/plants OHV off road fear of closure to OHV too many people accessibility fear all open to OHV	walking ATV motorcycle horseback ride mountain bike 4x4 modified 4x4 stock
4	recreation biodiversity/learning aesthetic sp place/wilderness/intrinsic spiritual/historical/cultural life sustain/therapeutic economic	view nature/visit hist motorized nonmotorized enjoy solitude hunt/fish time w/family camping	effects of OHV use fear of closure to OHV OHV off road disturbance to wlf/plants too many people fear all open to OHV accessibility	walking motorcycle ATV horseback ride mountain bike 4x4 stock 4x4 modified
5	recreation sp place/wilderness/intrinsic biodiversity/learning aesthetic spiritual/historical/cultural life sustain/therapeutic economic	view nature/visit hist nonmotorized motorized enjoy solitude hunt/fish camping time w/family	effects of OHV use OHV off road fear of closure to OHV disturbance to wlf/plants too many people fear all open to OHV accessibility	walking ATV horseback ride motorcycle mountain bike 4x4 stock 4x4 modified
6	recreation biodiversity/learning aesthetic sp place/wilderness/intrinsic spiritual/historical/cultural life sustain/therapeutic economic	nonmotorized view hunt/fish nature/visit hist motorized enjoy solitude camping time w/family	fear of closure to OHV OHV off road effects of OHV use too many people fear all open to OHV disturbance to wlf/plants accessibility	walking ATV mountain bike horseback ride motorcycle 4x4 stock 4x4 modified
7	recreation aesthetic biodiversity/learning sp place/wilderness/intrinsic spiritual/historical/cultural economic life sustain/therapeutic	hunt/fish nonmotorized view nature/visit hist motorized enjoy solitude time w/family camping	effects of OHV use too many people fear of closure to OHV disturbance to wlf/plants OHV off road accessibility fear all open to OHV	walking motorcycle horseback ride mountain bike ATV 4x4 stock 4x4 modified

8	recreation aesthetic biodiversity/learning sp place/wilderness/intrinsic spiritual/historical/cultural life sustain/therapeutic economic	view nature/visit hist motorized nonmotorized enjoy solitude hunt/fish time w/family camping	effects of OHV use OHV off road fear of closure to OHV disturbance to wlf/plants too many people accessibility fear all open to OHV	ATV walking horseback ride motorcycle 4x4 stock mountain bike 4x4 modified
9	recreation aesthetic sp place/wilderness/intrinsic biodiversity/learning spiritual/historical/cultural life sustain/therapeutic economic	view nature/visit hist nonmotorized motorized enjoy solitude hunt/fish time w/family camping	too many people fear of closure to OHV effects of OHV use OHV off road disturbance to wlf/plants fear all open to OHV accessibility	ATV walking horseback ride 4x4 modified motorcycle mountain bike 4x4 stock

Appendices

- A. Dot Form
- B. Categories for Four Form Questions
- C. Dot Placement Map
- D. Overall Forest Responses
- E. Region 1 Summary
- F. Region 2 Summary
- G. Region 3 Summary
- H. Region 4 Summary
- I. Region 5 Summary
- J. Region 6 Summary
- K. Region 7 Summary
- L. Region 8 Summary
- M. Region 9 Summary

APPENDIX A

DOT FORM

Your Dot # _____

**Travel management Planning
Mapping Exercise
Black Hills National Forest**

**Tell Us Even More...
What areas are most important to you for access into
the Forest and Why?**

What do you call this place?

What are three things you value about this place?

What activities do you most enjoy doing there?

Do you have any concerns about this place? If yes, what are they?

What type of access is important to this place?

Other Comments?

APPENDIX B

FORM CATEGORIES

Question 1. What are the 3 things you value about this place?

The values the participant listed on the form were fit into one or more of the following categories: aesthetic, economic, recreation, life sustaining, learning, bio-diversity, spiritual, intrinsic, special places, wilderness, therapeutic, historical/cultural.

These 12 categories were then grouped into 7 categories to simplify analysis.

- 1. recreation**
- 2. aesthetic**
- 3. economic**
- 4. life sustaining and therapeutic**
- 5. special places/wilderness/intrinsic,**
- 6. learning and bio-diversity**
- 7. spiritual/historical/cultural**

Question 2. What activities do you most enjoy doing there?

The activities the participant listed on the form were fit into one or more of the following categories: camping, mountain bike, hike, horseback riding, cross country skiing, climbing, snowmobiling, off road driving, driving for pleasure, visiting historical places, wildlife viewing, viewing natural features, nature study, gathering forest products, hunt, fish, enjoy solitude/beauty/quiet of place, time with family and friends.

These 18 categories were grouped into 7 categories to simplify analysis.

- 1. Camping**
- 2. non motorized activity (mountain bike, hike, horseback riding, cross country skiing, climbing)**
- 3. motorized activity (snowmobile, off road driving, driving for pleasure)**
- 4. View Nature and Visit Historic Places (visiting historical places, viewing wildlife viewing natural features, nature study, gathering forest products)**
- 5. hunt and fish (hunt, fish)**
- 6. Enjoy Solitude (solitude/beauty/quiet of place)**
- 7. Time with Family and Friends**

Question 3. What are your concerns about this place?

The concerns the participant listed on the form were fit into one or more of the following categories: too many people, dusty, safety, noise, less natural, motorized access for older visitors, motorized access for varying abilities, increase in resource damage from OHV, increase outside visitation, fear they will be closed out, logging practice, disturbance to wildlife, open the area to motorized travel, destruction of rare plant, cattle grazing, garbage/trash/vandalism, increased private land development, lack of law enforcement, concentrate motorized use, access not available for future generations, no off road use, motorized on existing routes only.

These 22 categories were grouped into 7 categories to simplify analysis.

- 1. too many people (too many people, increased private land development, increased outside visitation)**
- 2. effects of OHV use (dusty, noise, garbage/vandalism, safety, increase resource damage, less natural)**
- 3. disturbance to wildlife and plants (disturbance to wildlife, destruction of rare plants)**

4. **OHV Off Road Use (no off road use, motorized on existing routes only)**
5. **fear of closure of OHV Use (fear they will be closed out)**
6. **access for all ages and abilities (motorized access for older visistors, motorized access for varying abilities)**
7. **fear all areas open to OHV (open the area to motorized travel)**

Question 4. What type of access is important to this place?

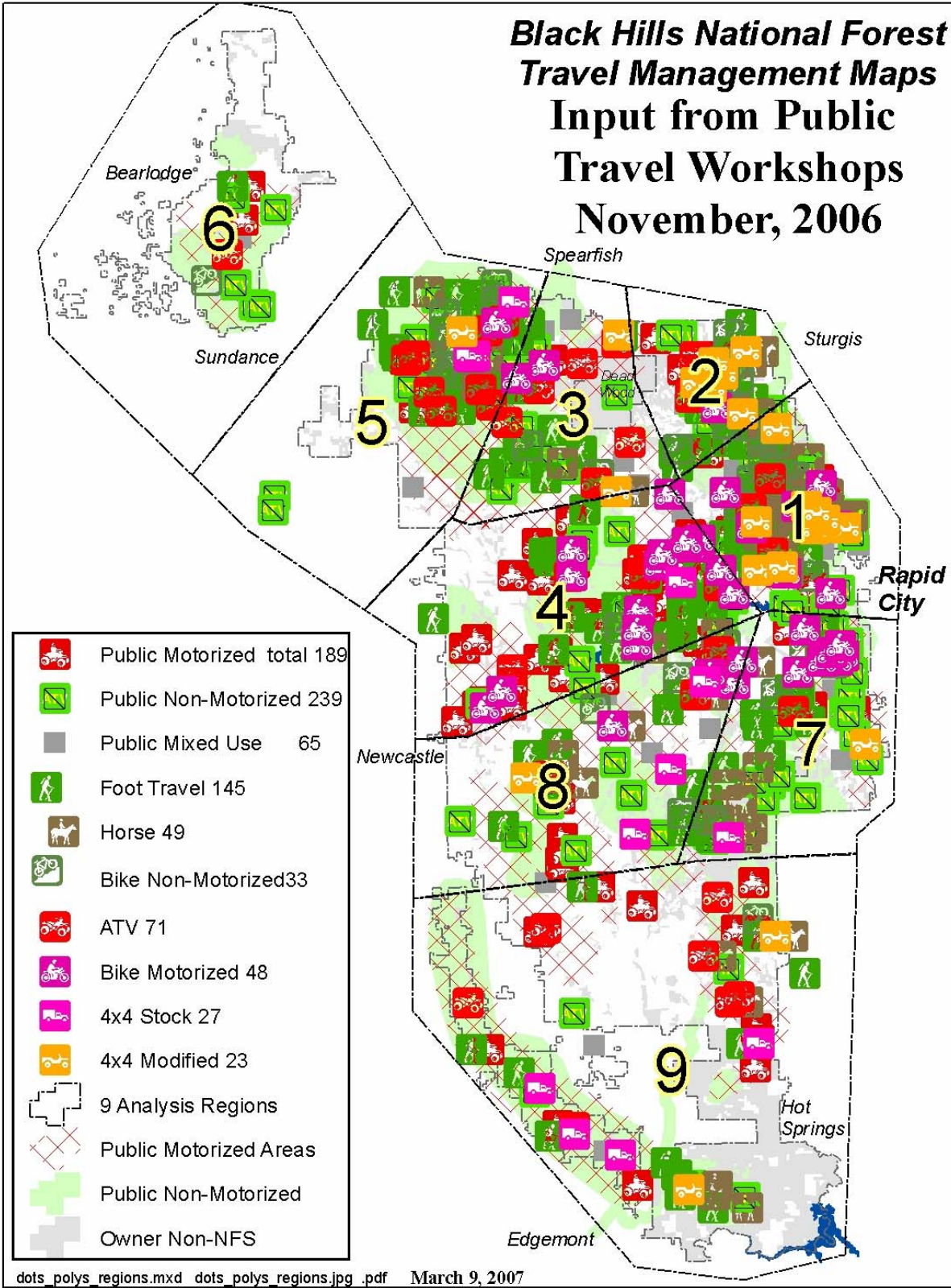
The access needs the participant listed on the form were fit into one or more of these categories and were not regrouped.

1. **walking**
2. **horseback riding**
3. **mountain bike**
4. **motorcycle**
5. **ATV**
6. **4x4 modified**
7. **4x4 Stock**

APPENDIX C

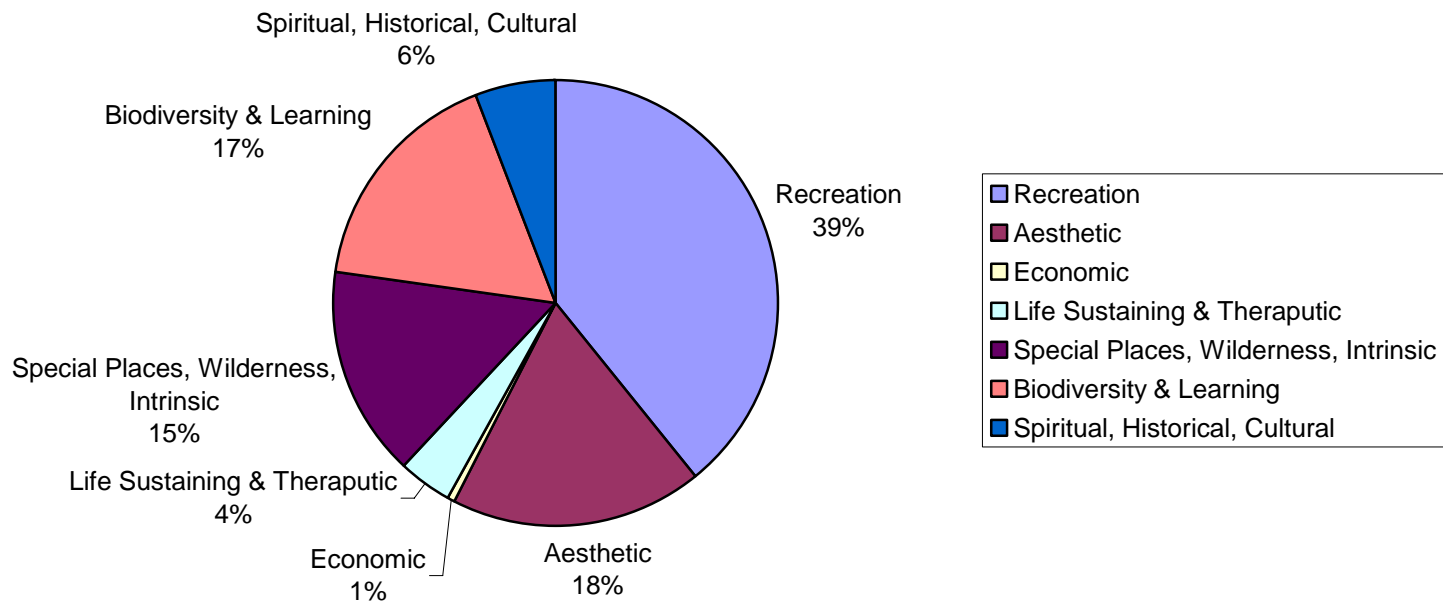
MAP

Black Hills National Forest Travel Management Maps Input from Public Travel Workshops November, 2006

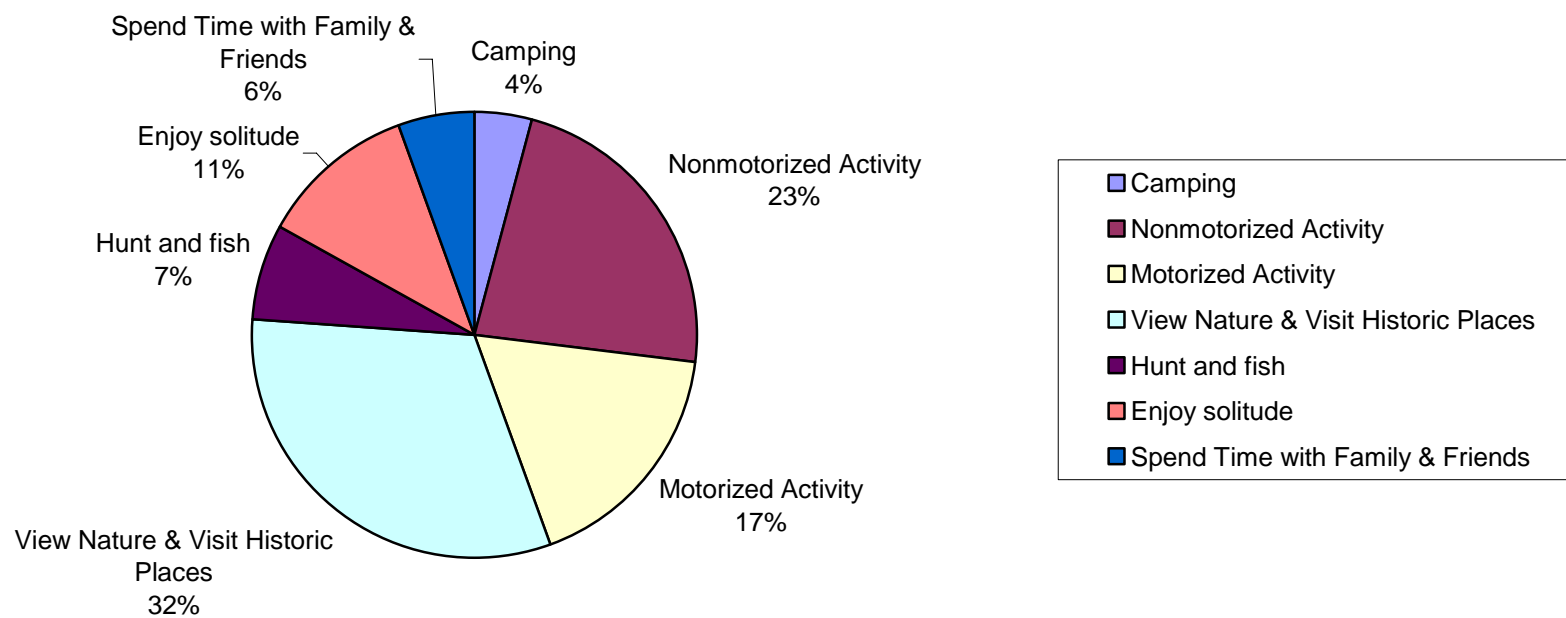


APPENDIX D
OVERALL FOREST
SUMMARY

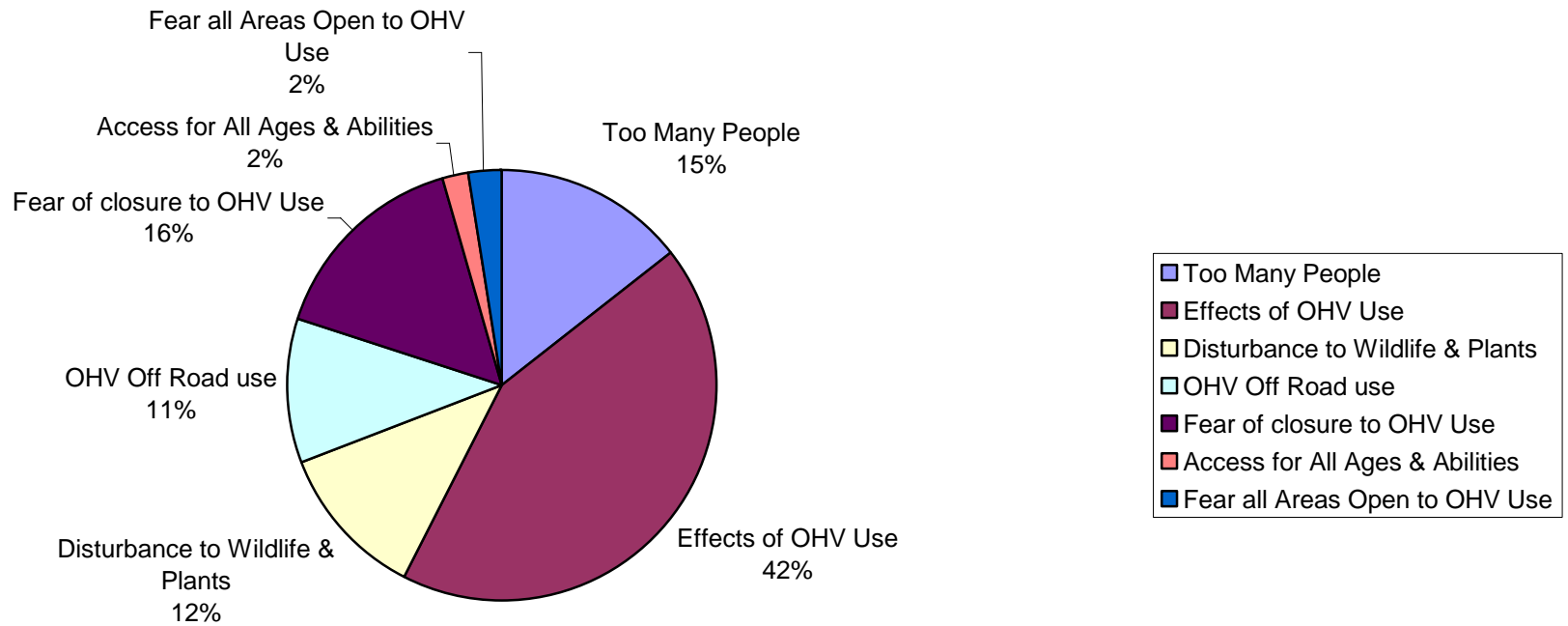
What Are The three Things You Value About This Place? (Overall Response for all Regions)



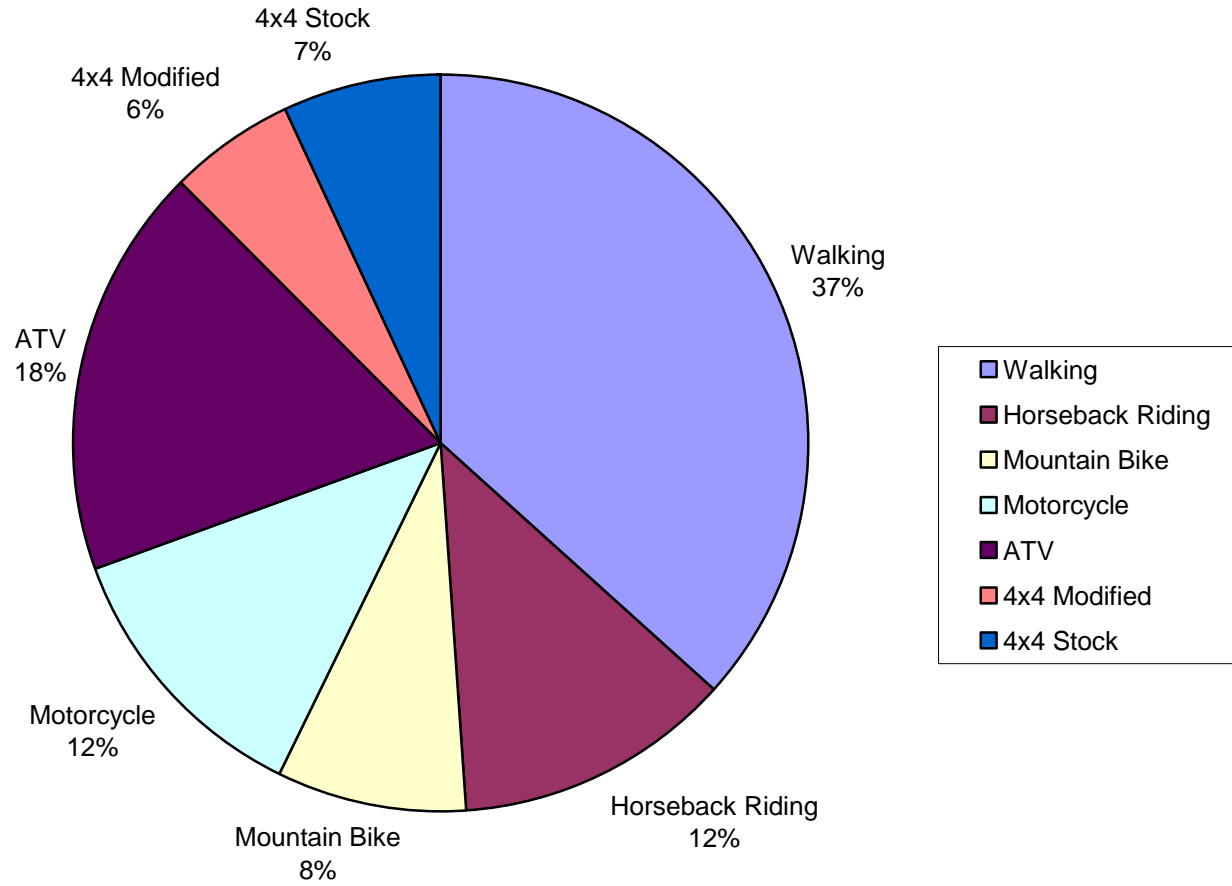
What Activities Do You Enjoy? (Overall Response for All Regions)



What Are Your Concerns With This Place? (Overall Responses for All Regions)



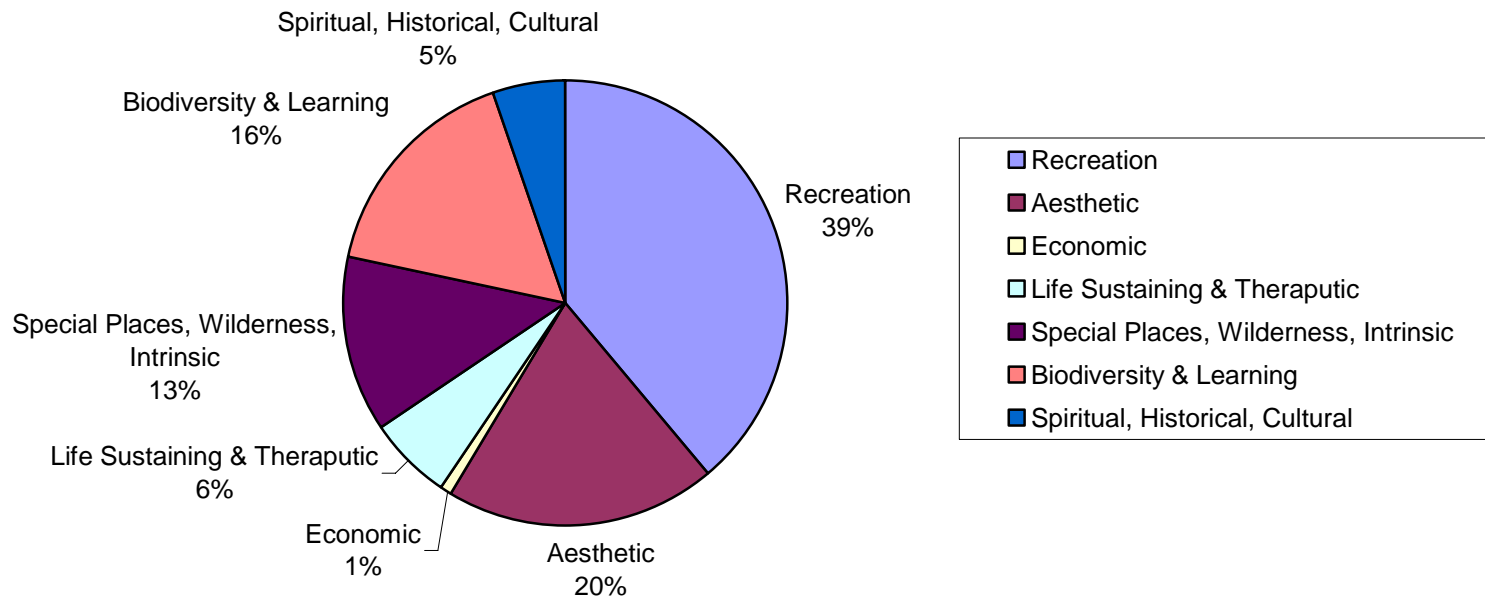
What Type of Access is Important to You? (Overall Results for All Regions)



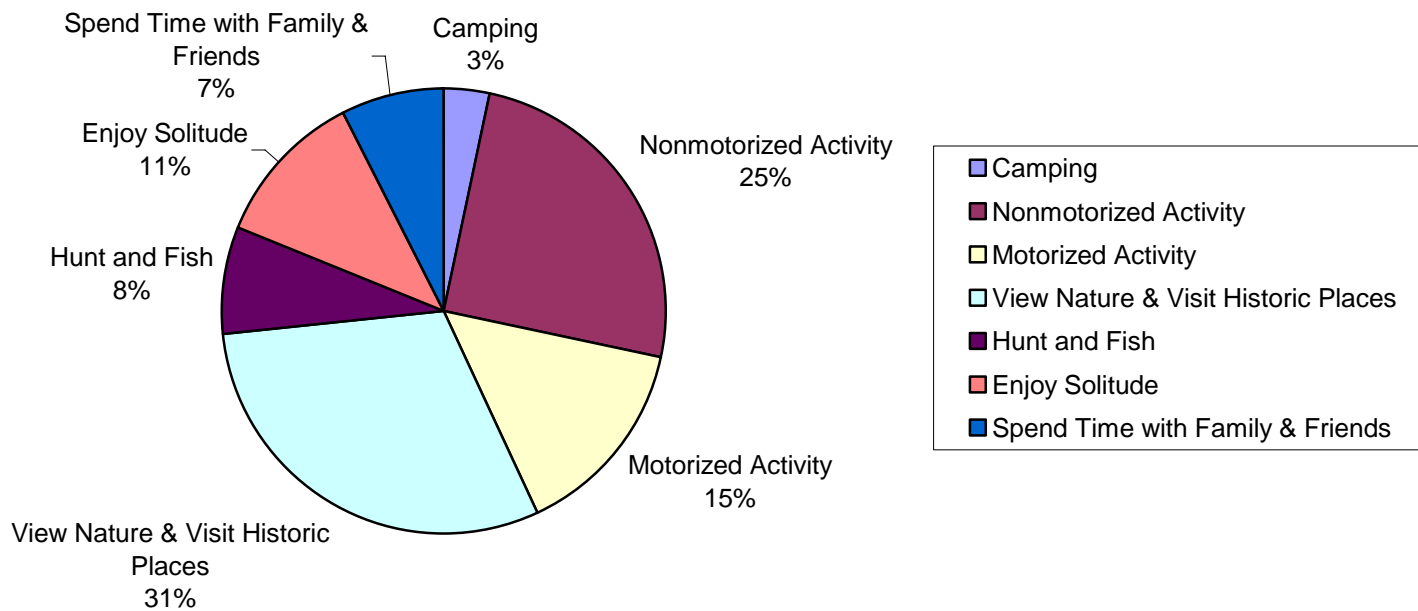
APPENDIX E

REGION 1

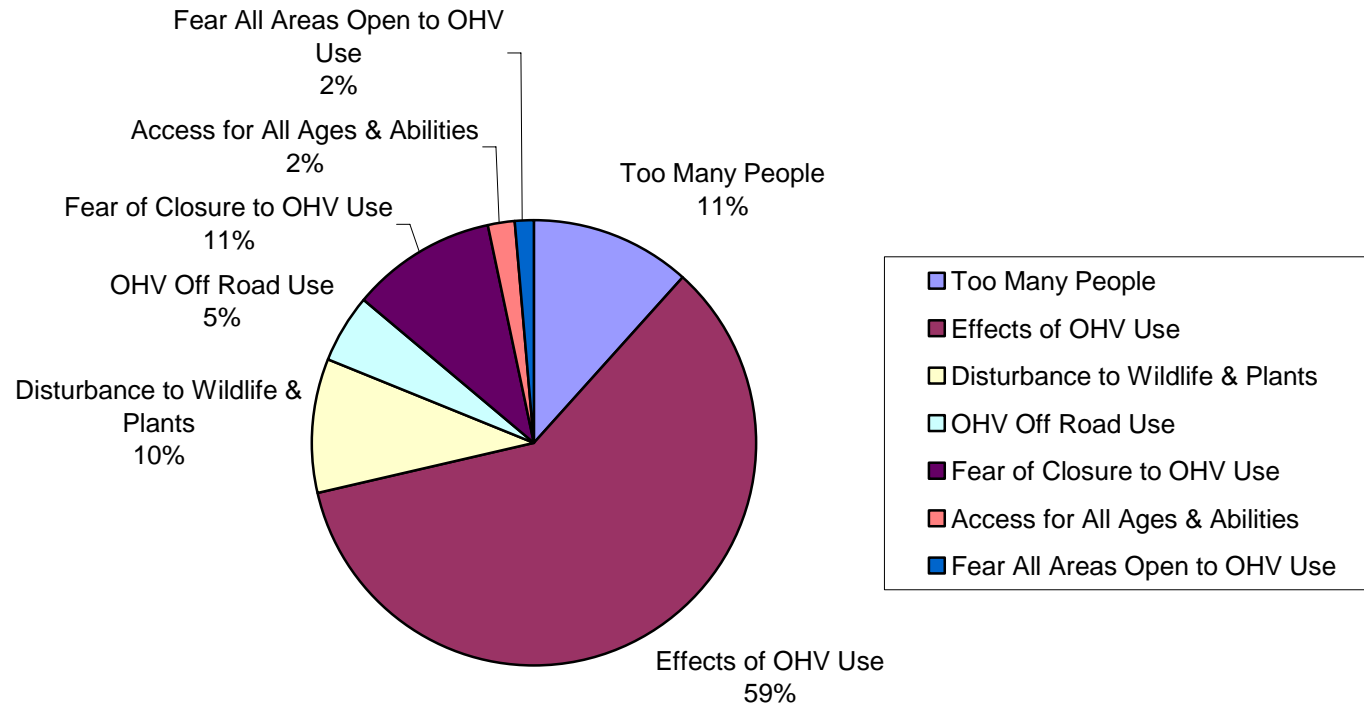
What Are The Three Things You Value About This Place? (Region 1 - Black Hawk, Piedmont, Dalton Lake areas)



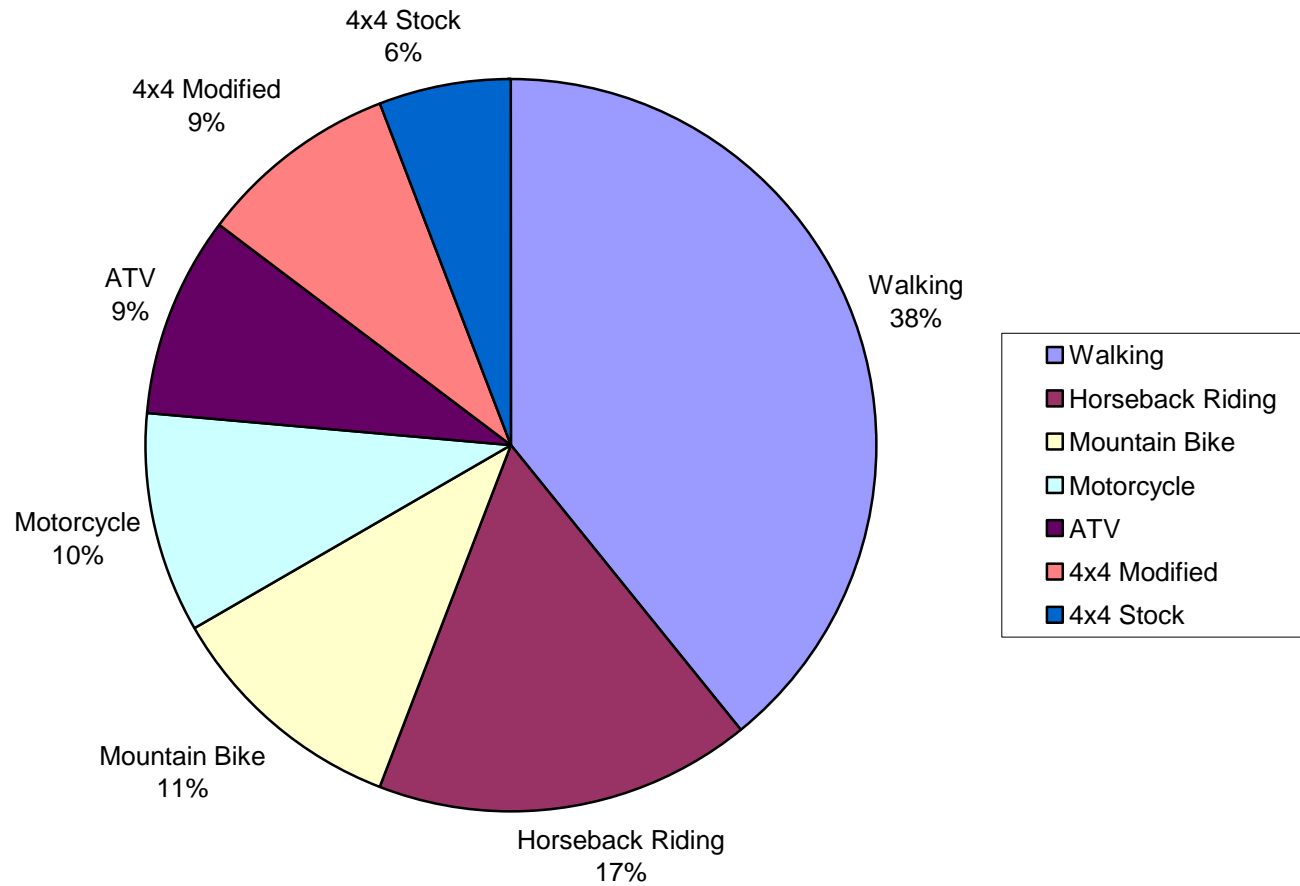
What Activities Do You Enjoy?
(Region 1 - Black Hawk, Piedmont, Dalton Lake areas)



**What Are Your Concerns With This Place?
(Region 1 - Black Hawk, Piedmont, Dalton lake areas)**



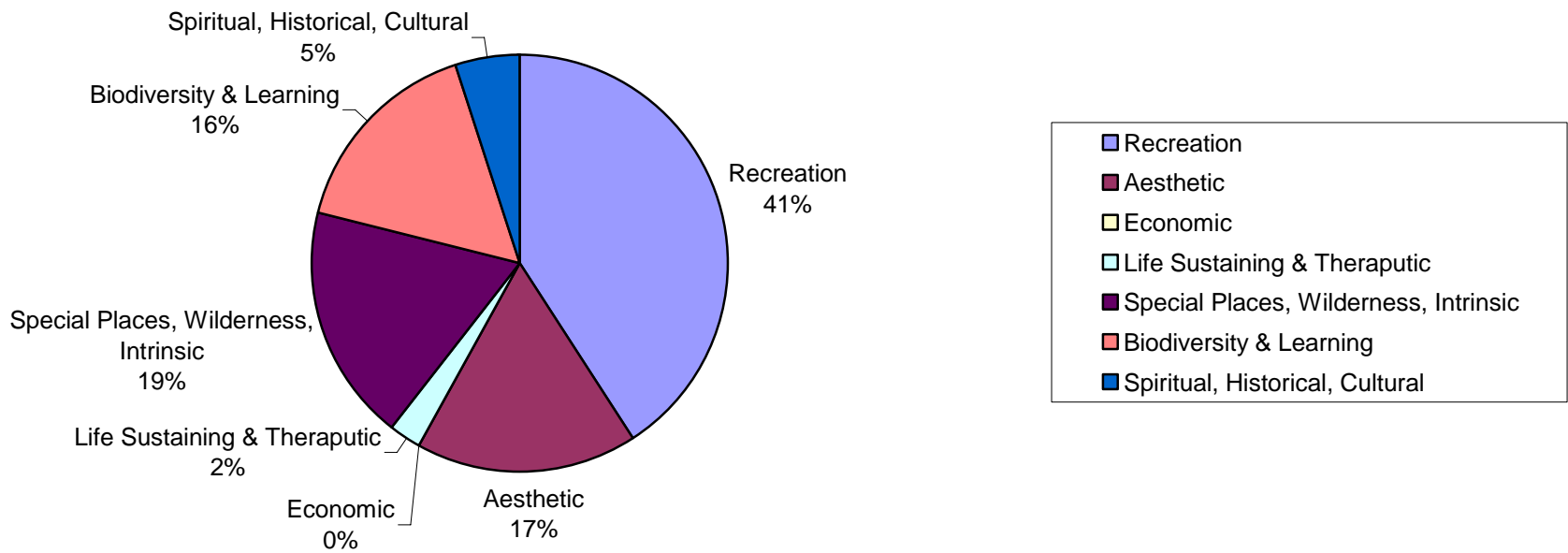
**What Type of Access is Important to You?
(Region 1 - Black Hawk, Piedmont, Dalton Lake areas)**



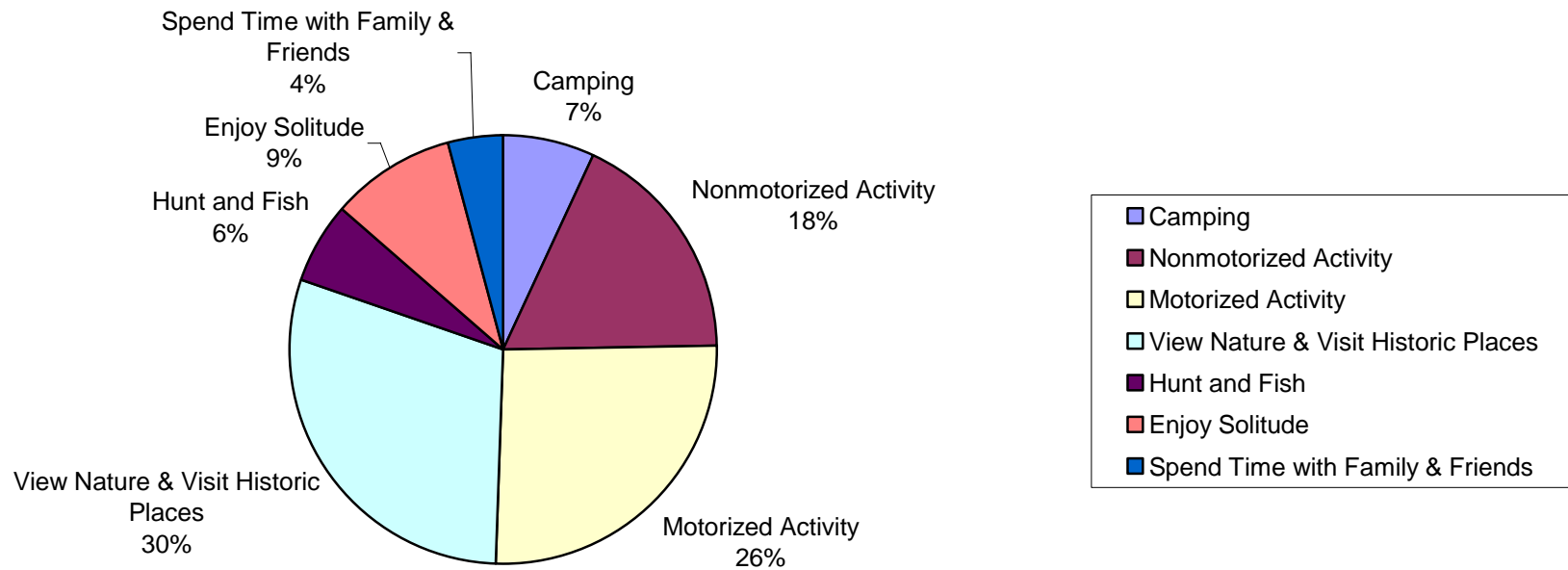
APPENDIX F

REGION 2

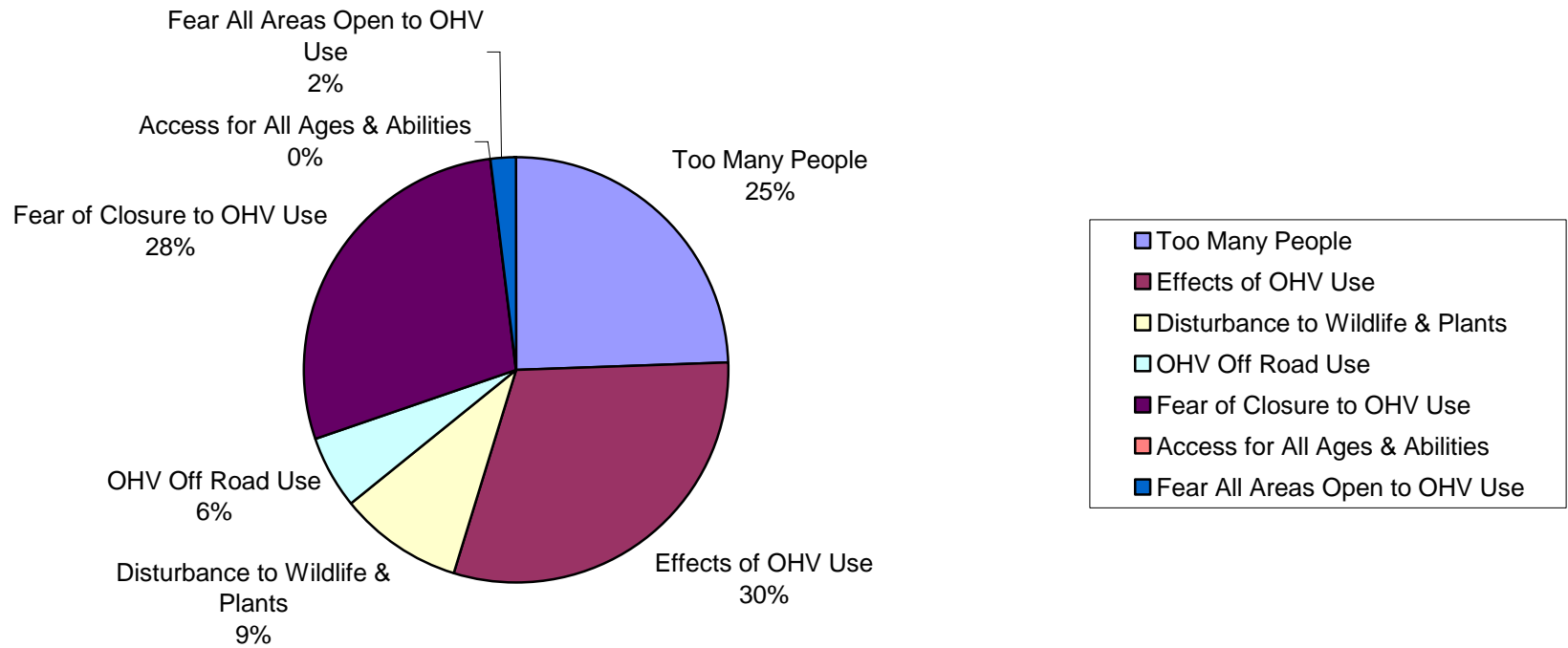
**What Are the Three Things You Value About This Place?
(Region 2 - North of Vanocker, East of Deadwood)**



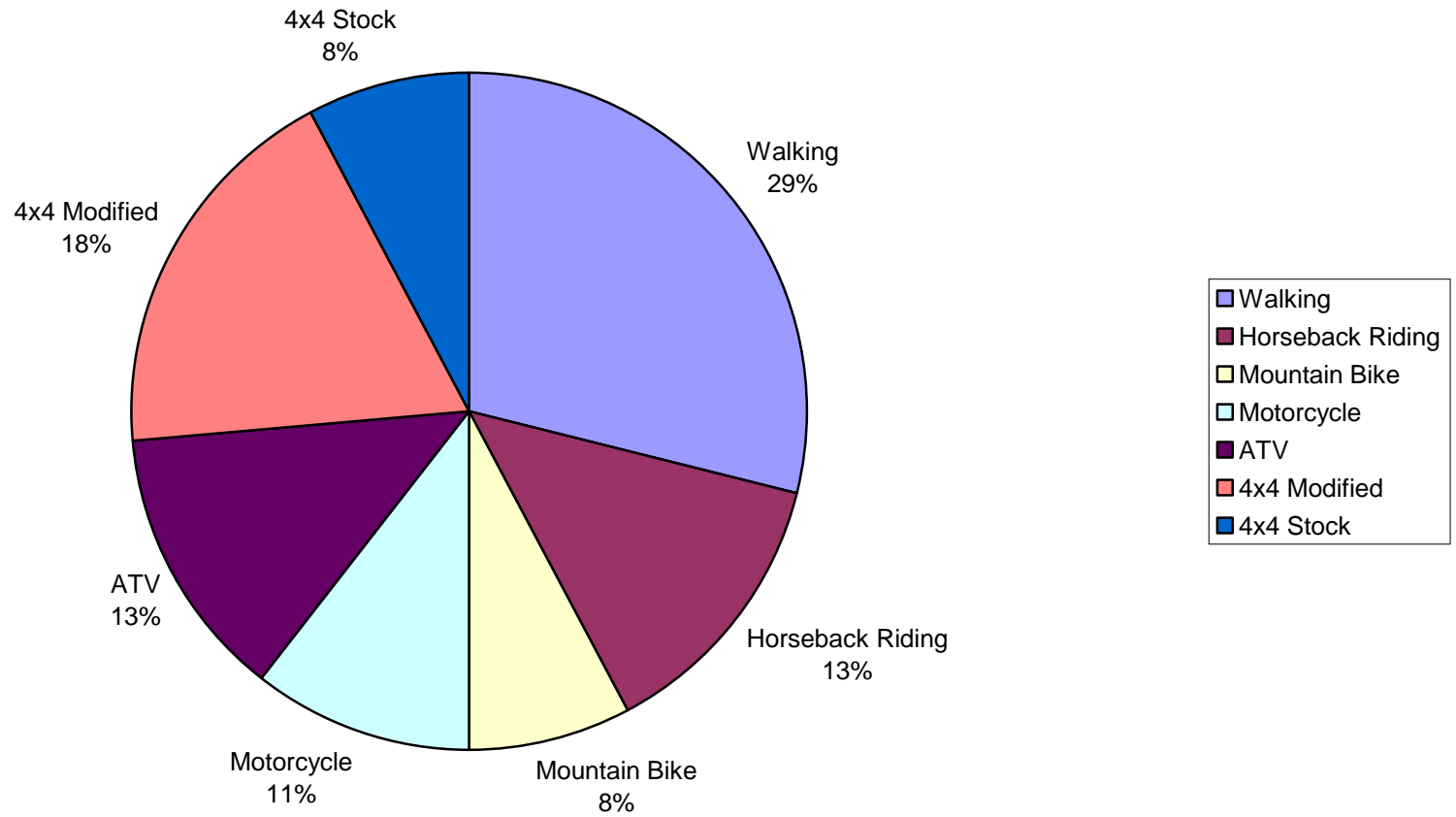
**What Activities do you Enjoy?
(Region 2 - North of Vanocker, East of Deadwood)**



**What Are Your Concerns About This Place?
(Region 2 - North of Vanocker, East of Deadwood)**

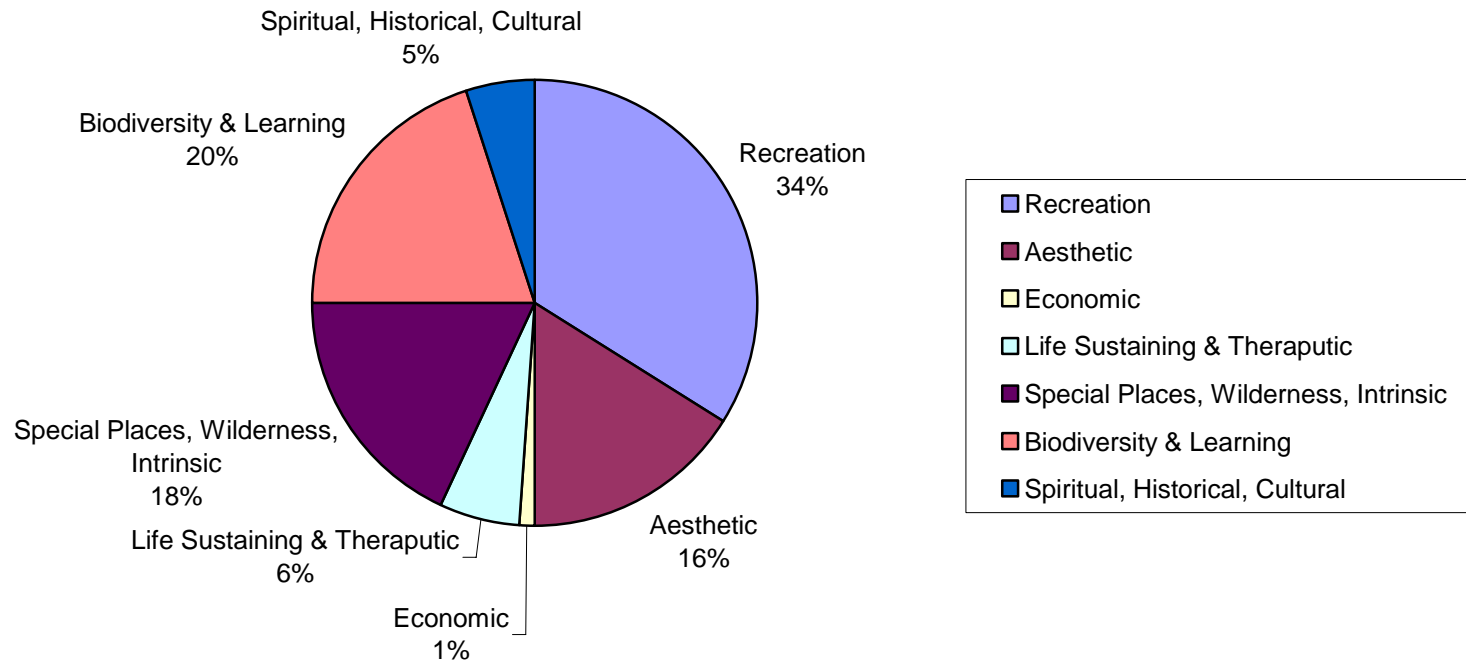


**What Type of Access is Important to You?
(Region 2 - North of Vanoucker, East of Deadwood)**

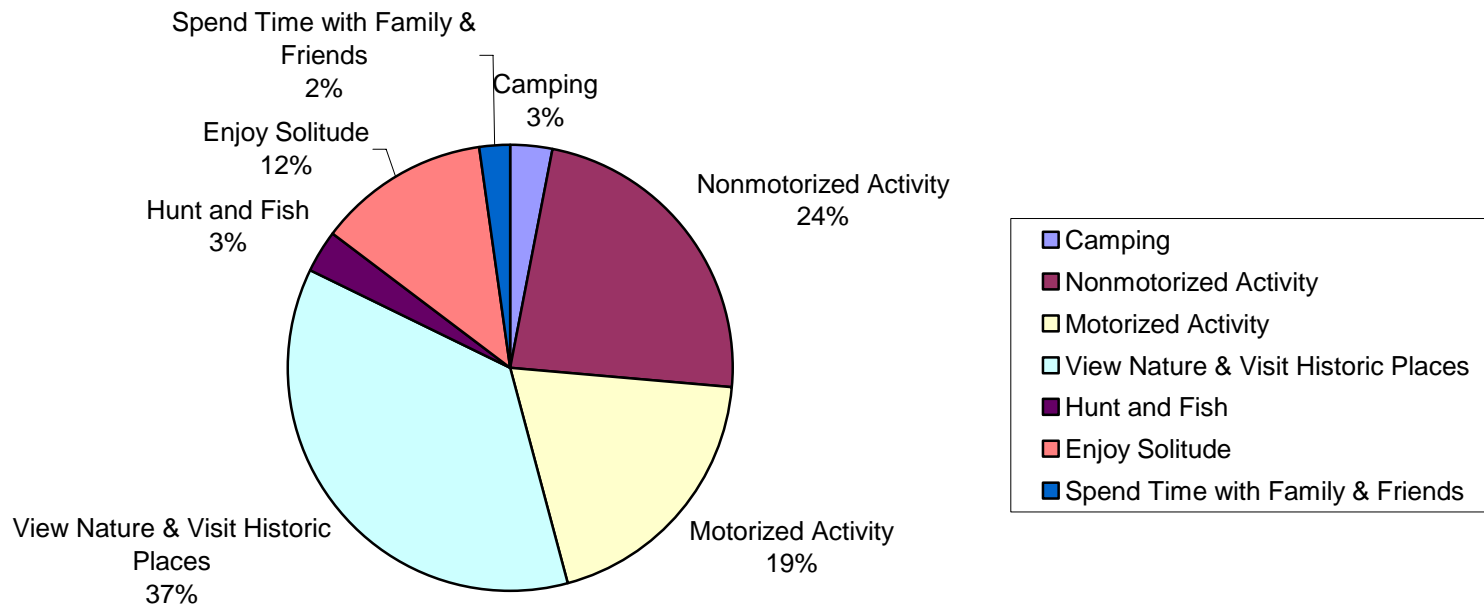


APPENDIX G
REGION 3

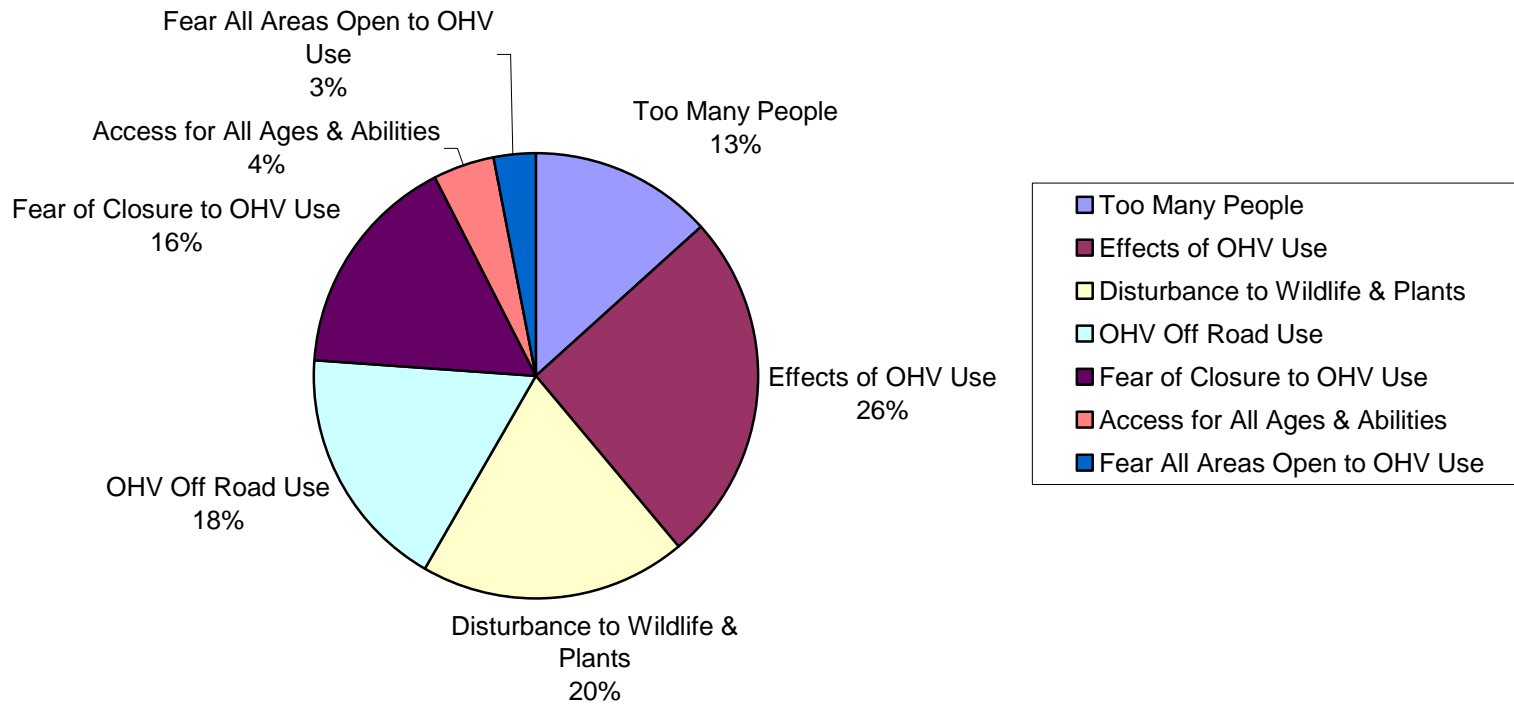
What Are The Three Things You Value About This Place? (Region 3 - Deadwood/Lead Area)



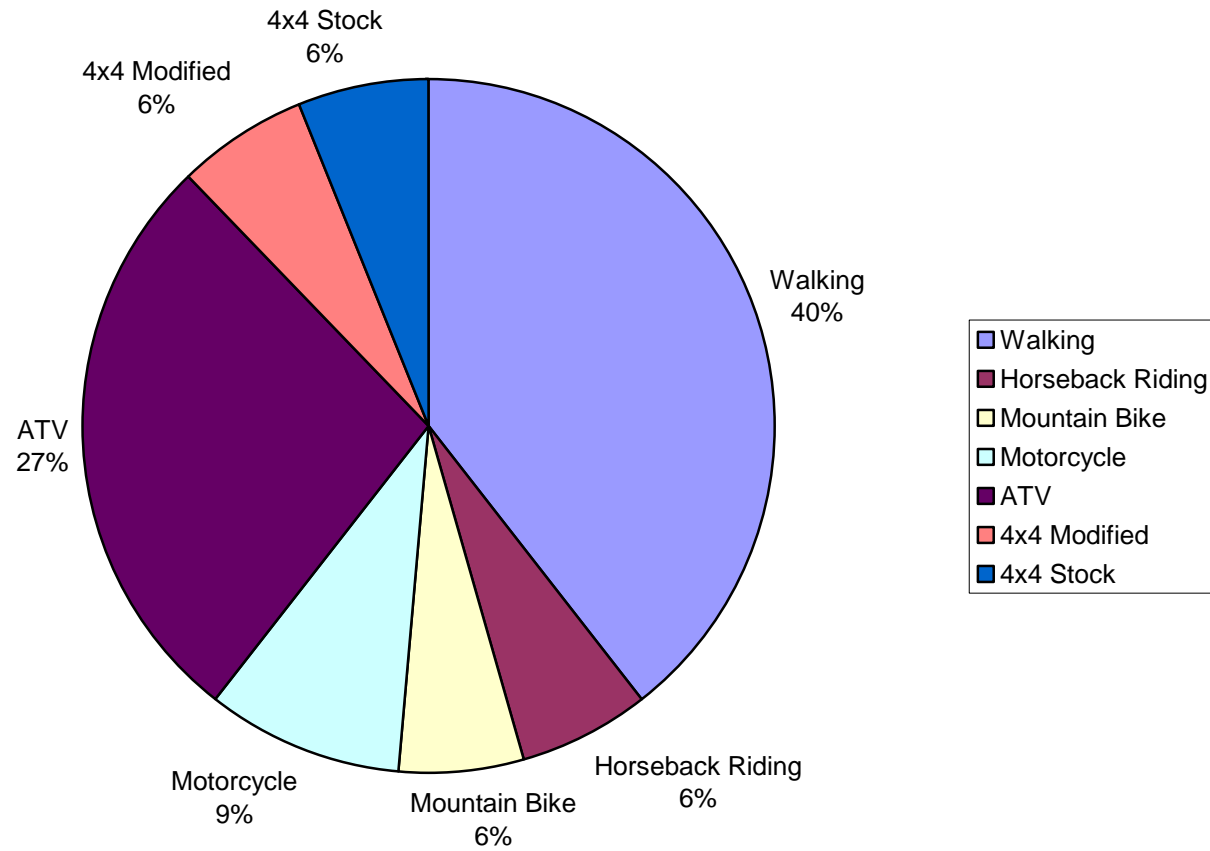
What Activities Do You Enjoy? (Region 3 - Deadwood/Lead Area)



What Are Your Concerns About This Place? (Region 3 - Deadwood/Lead areas)

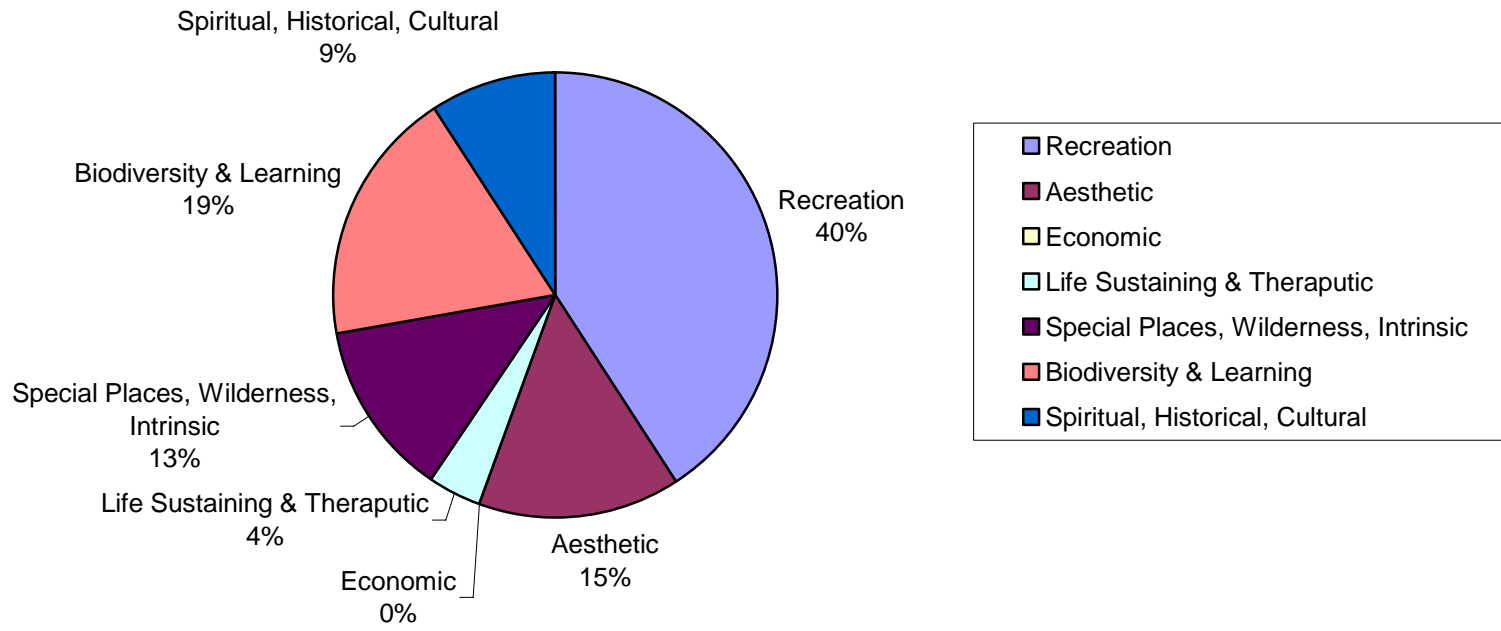


**What Type of Access is Important to You?
(Region 3 - Deadwood/Lead Area)**

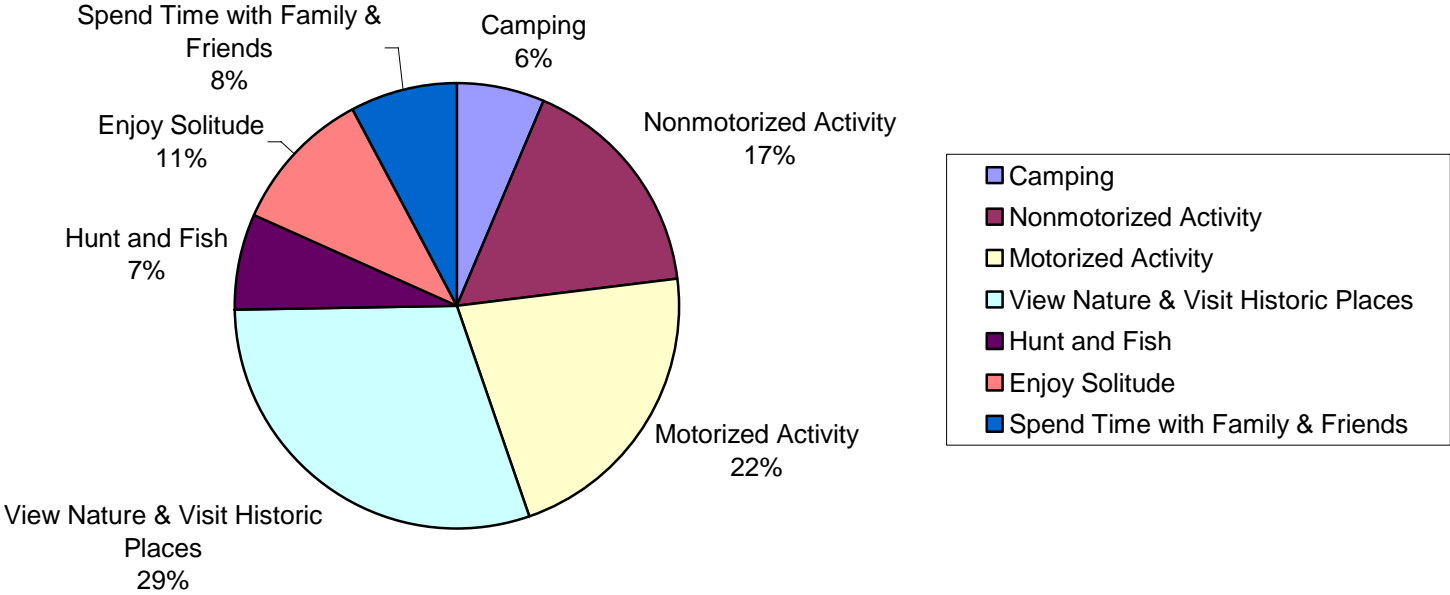


APPENDIX H
REGION 4

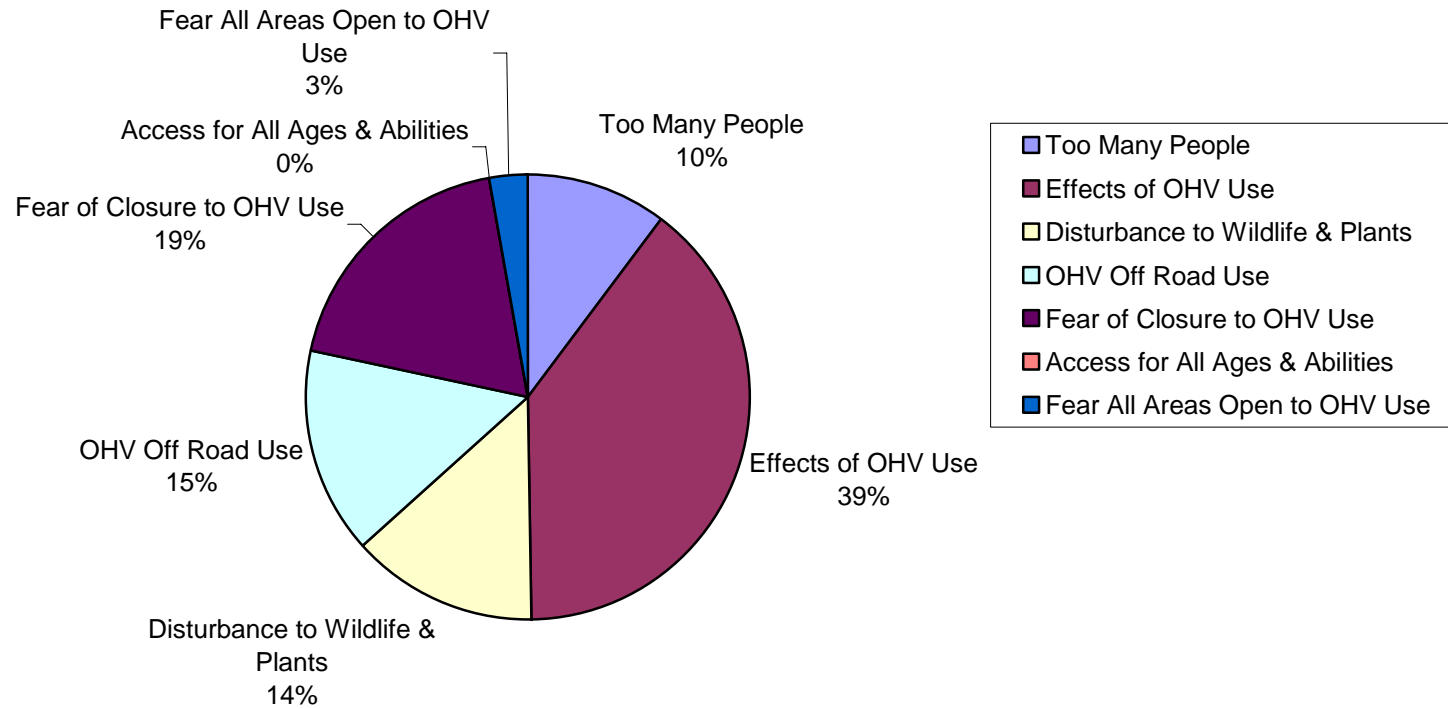
**What Are The Three Things You Value About This Place?
(Region 4 - West of Hwy 385, Pactola/Deerfield, South of Roubaix areas)**



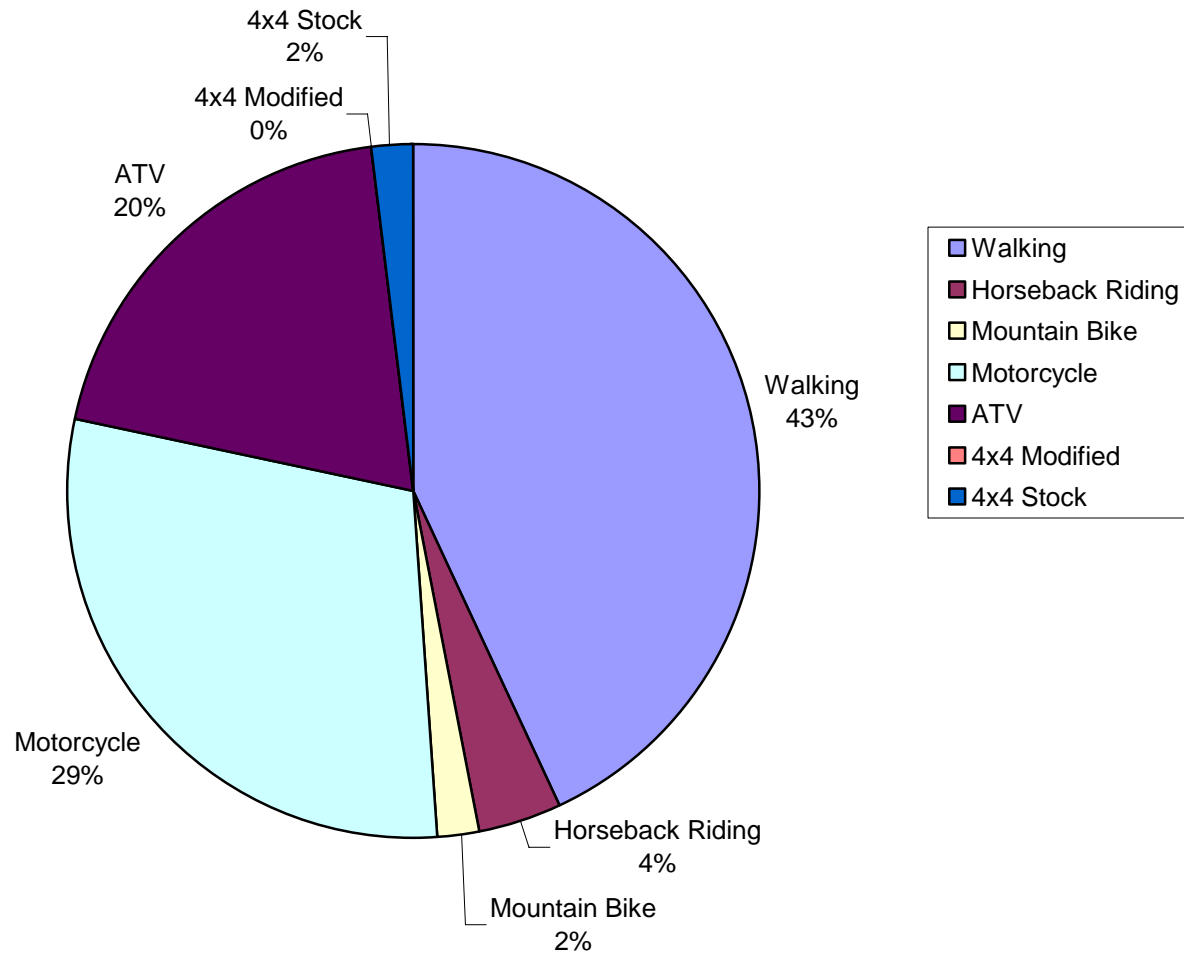
What Activities Do You Enjoy?
(Region 4 - West of Hwy 385, Pactola/Deerfield, south of Roubaix areas)



**What Are Your Concerns About This Place?
(Region 4 - West of Hwy 385, Pactola/Deerfield, South of Roubaix areas)**

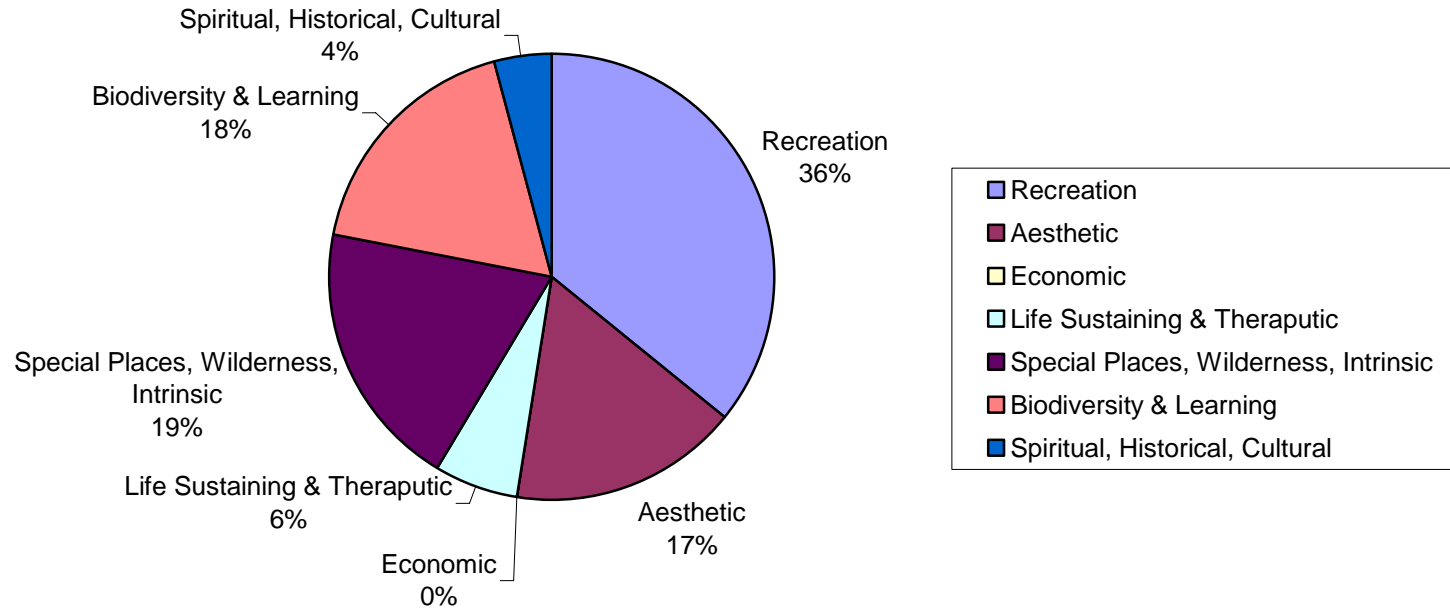


**What Type of Access is Important to You?
(Region 4 - west of Hwy 385, Pactola/Deerfield, south of Roubauix areas)**

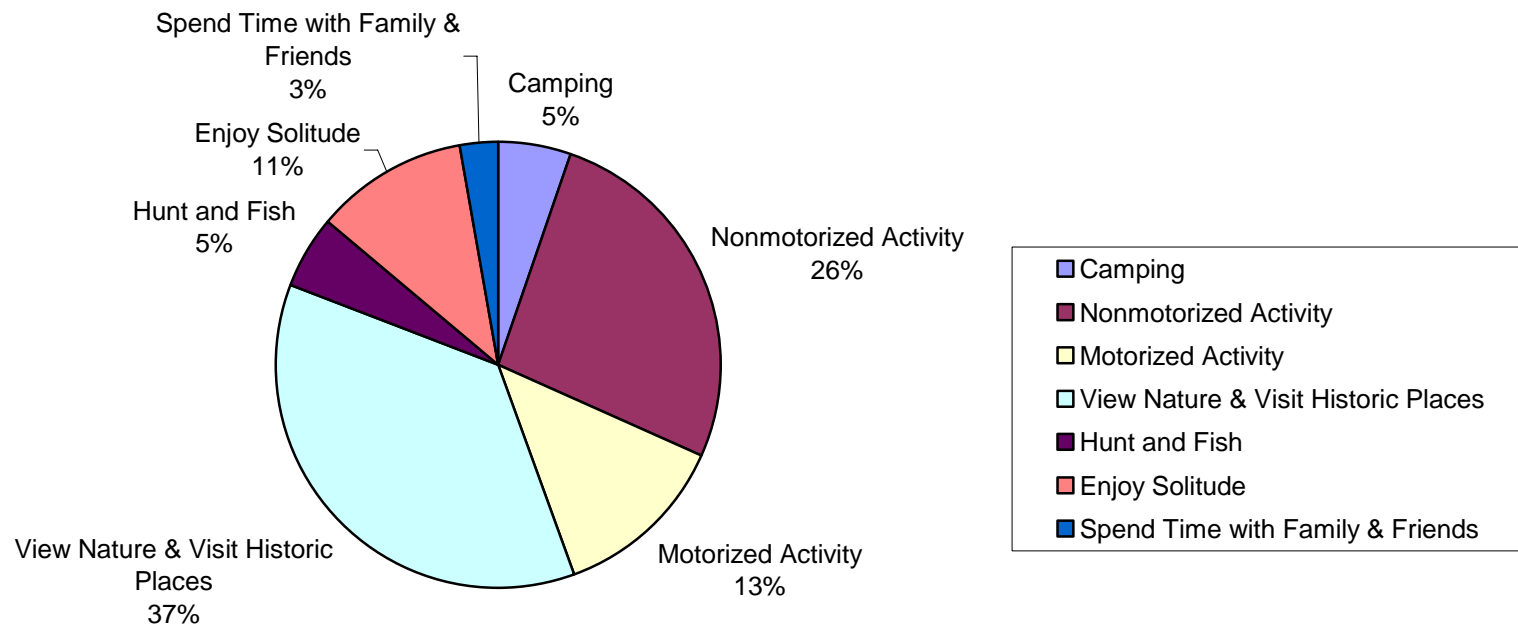


APPENDIX I
REGION 5

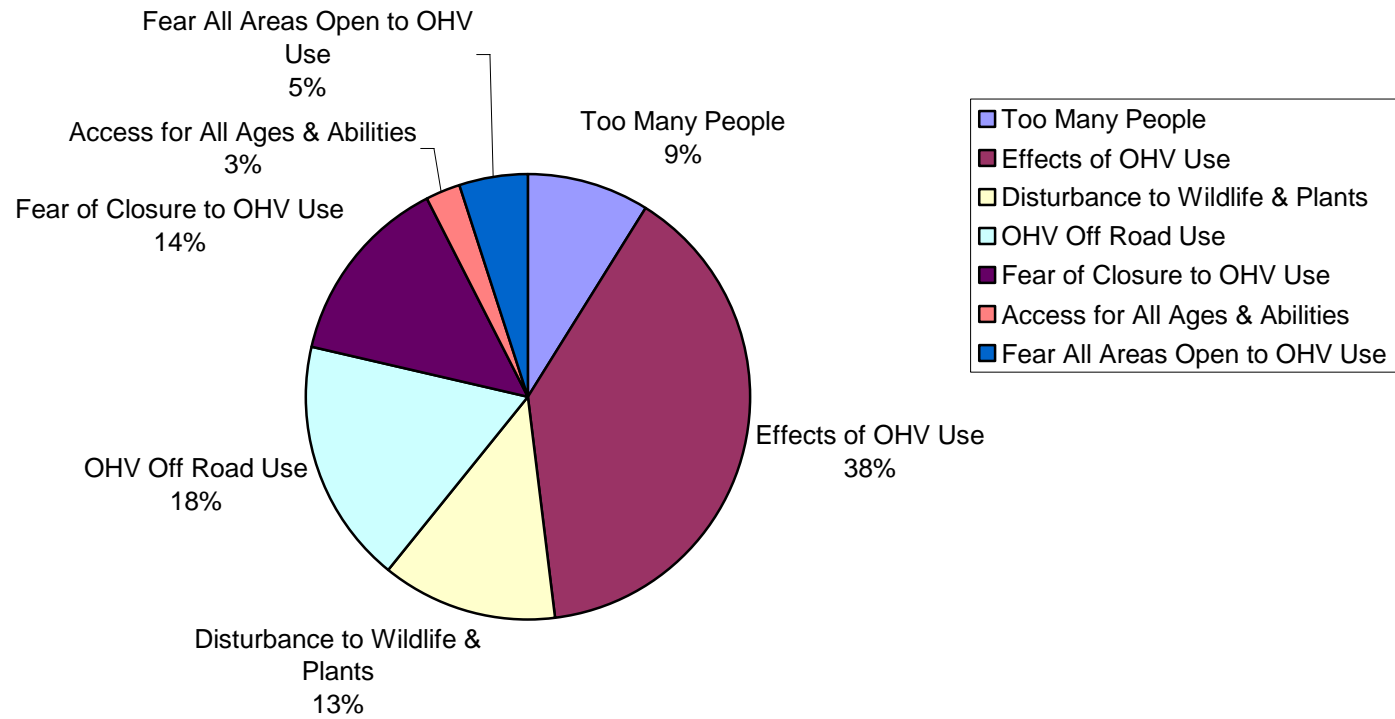
**What Are The Three Things You Value About This Place?
(Region 5 - Spearfish Canyon, Sand Creek areas)**



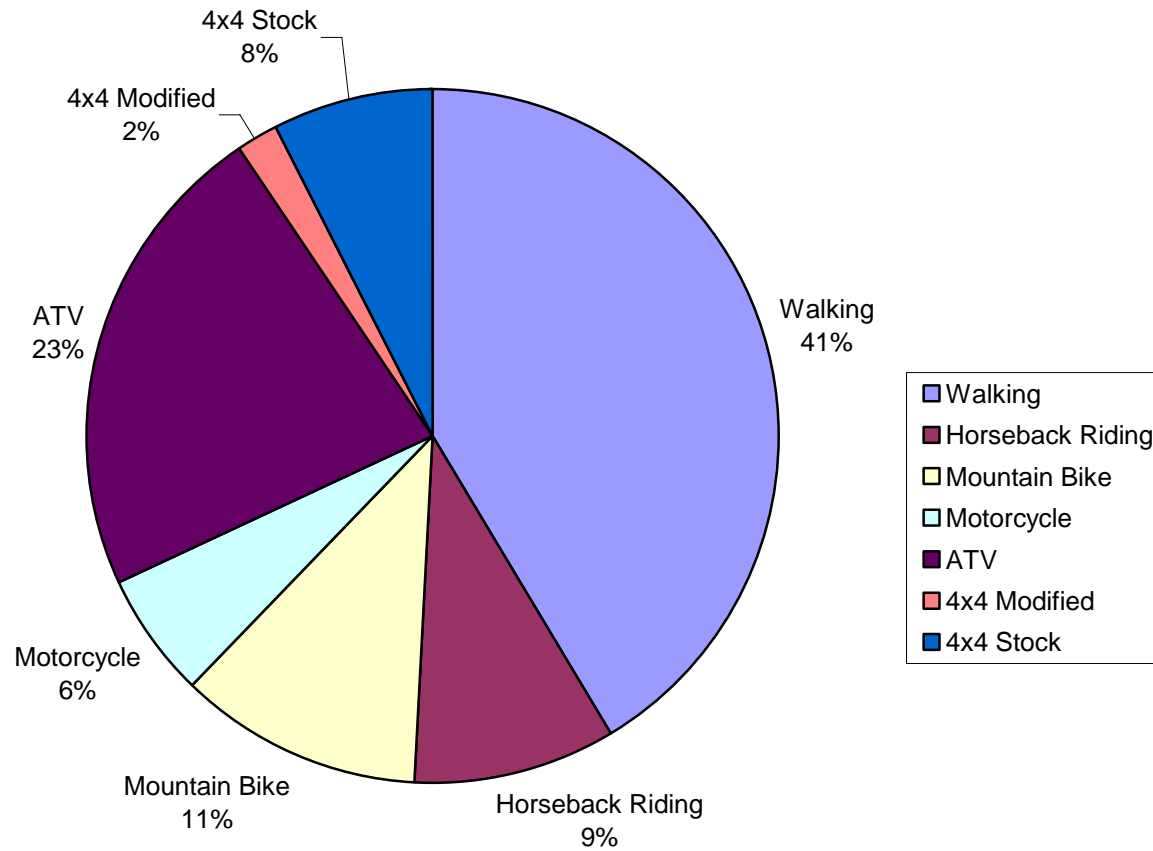
What Activities Do You Enjoy? (Region 5 - Spearfish Canyon, Sand Creek areas)



**What Are Your Concerns About This Place?
(Region 5 - Spearfish Canyon, Sand creek areas)**

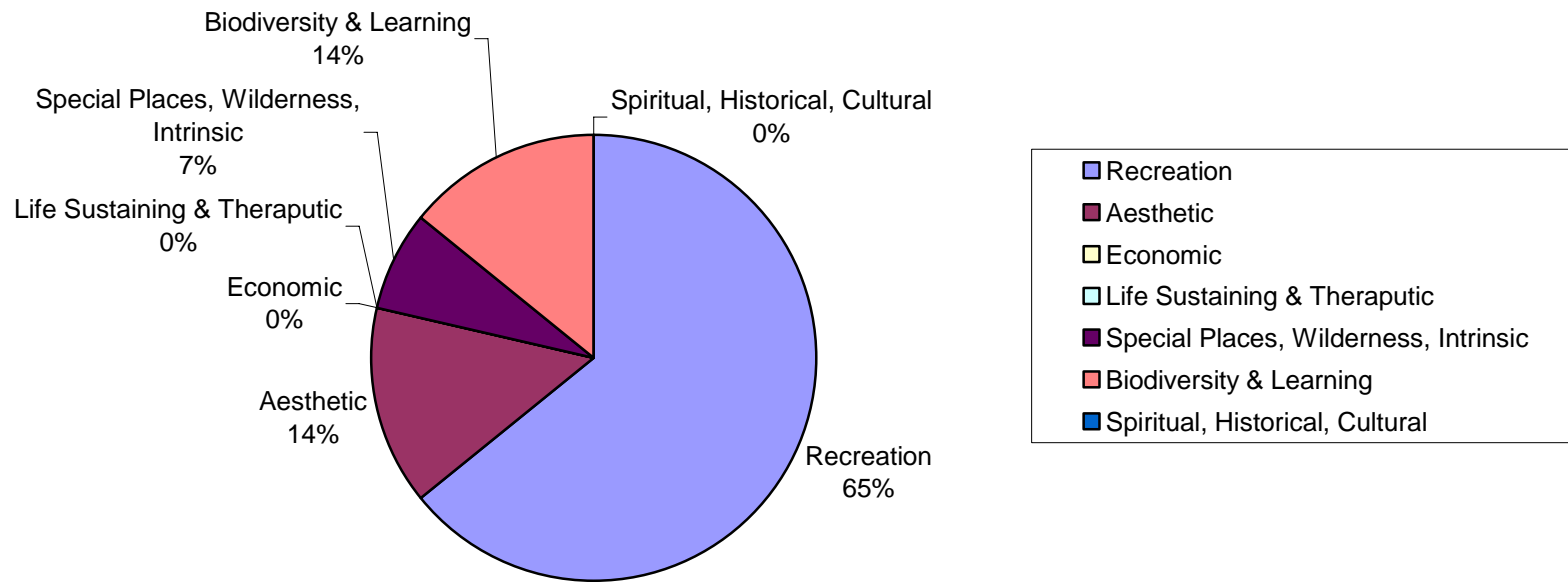


**What Type of Access is Important to You?
(Region 5 - Spearfish Canyon, Sand Creek areas)**

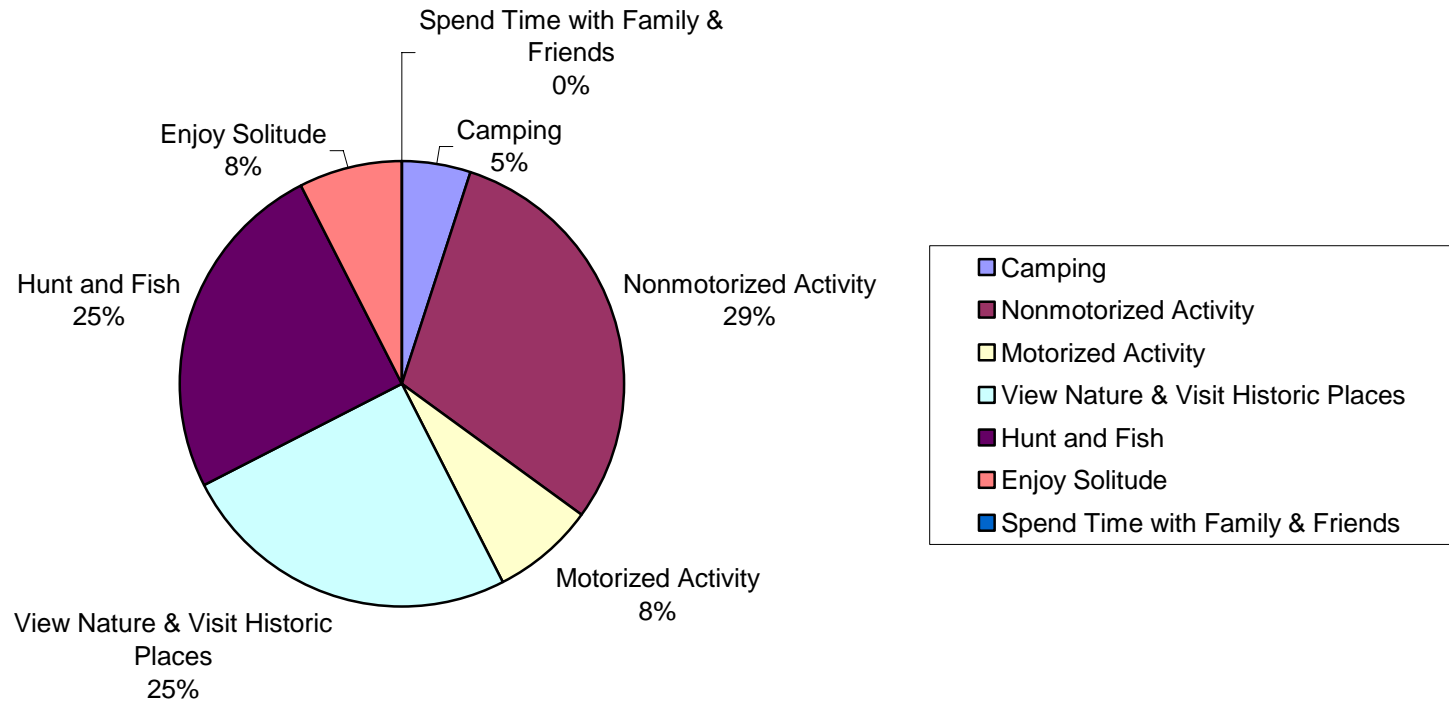


APPENDIX J
REGION 6

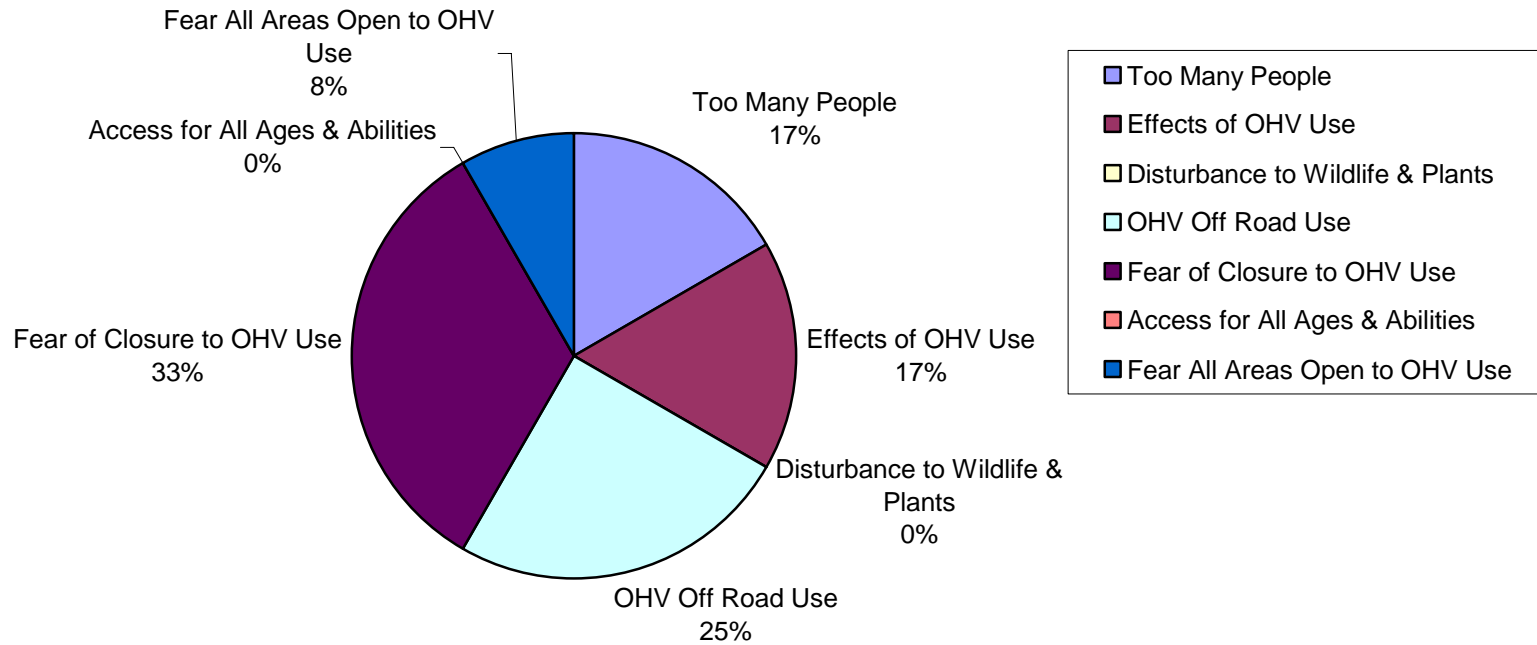
What Are The Three Things You Value About This Place? (Region 6 - Bearlodge Area)



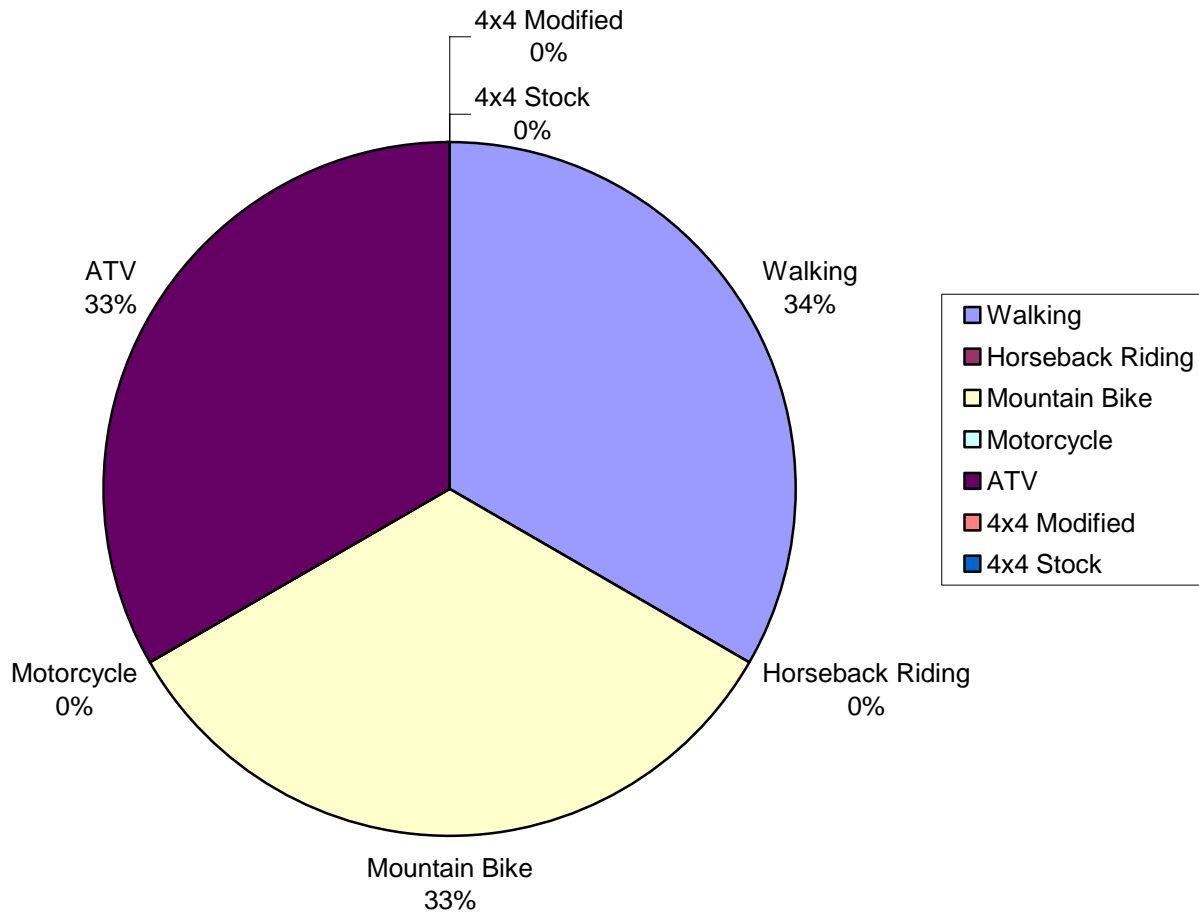
What Activities Do You Enjoy? (Region 6 - Bearlodge area)



What Are Your Concerns About This Place? (Region 6 - Bearlodge Area)

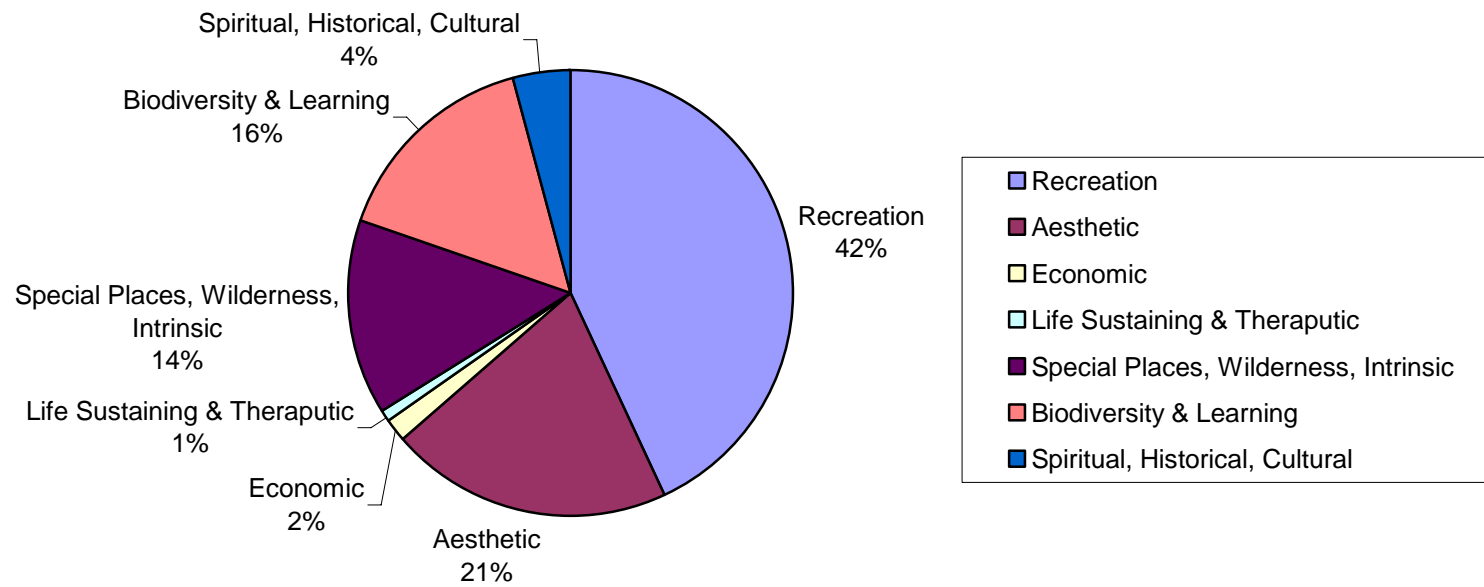


What Type of Access is Important to You? (Region 6 - Bearlodge area)

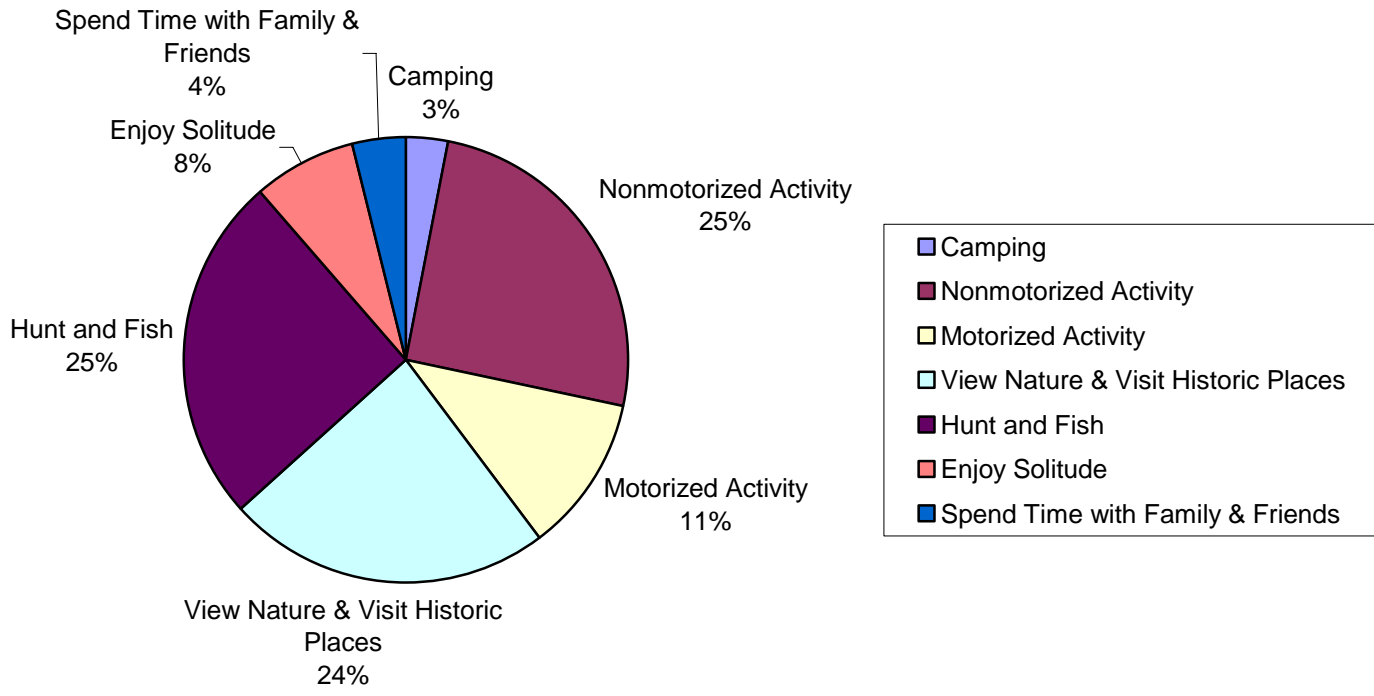


APPENDIX K
REGION 7

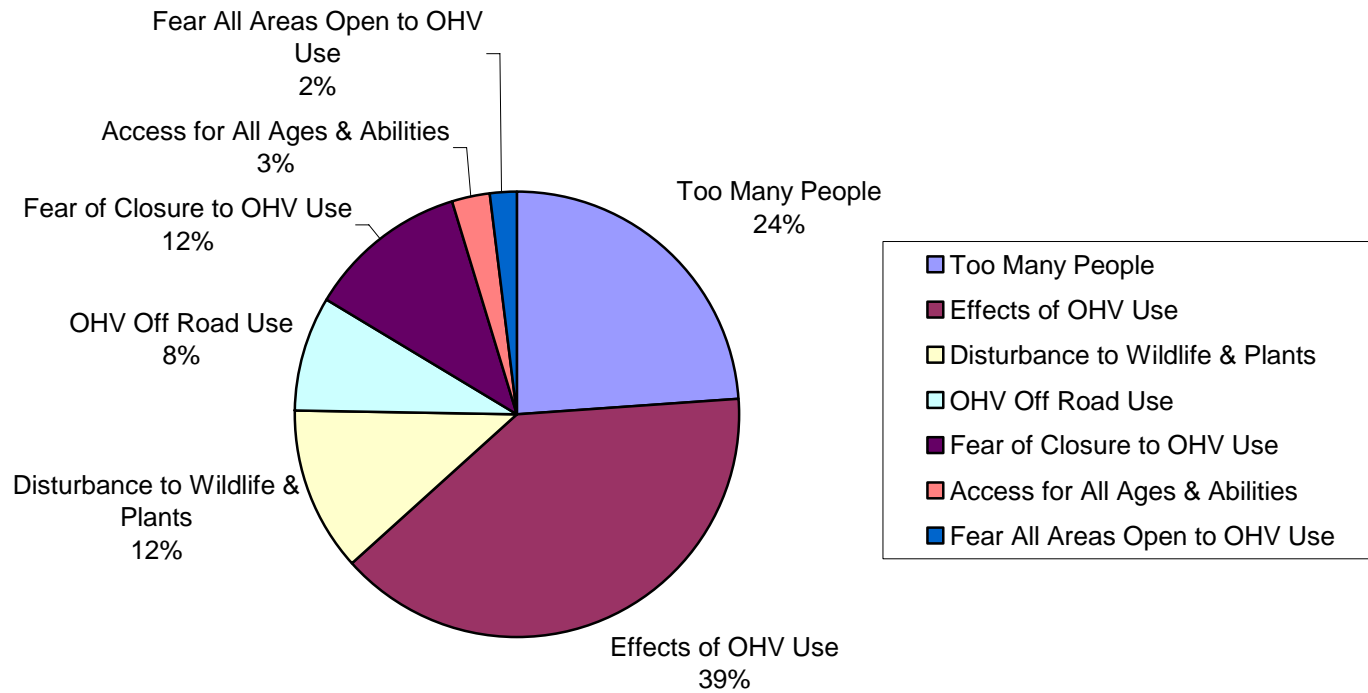
**What Are The Three Things You Value About This Place?
(Region 7 - South of Rapid City, Battle Creek, Mt Rushmore, Sheridan Lake)**



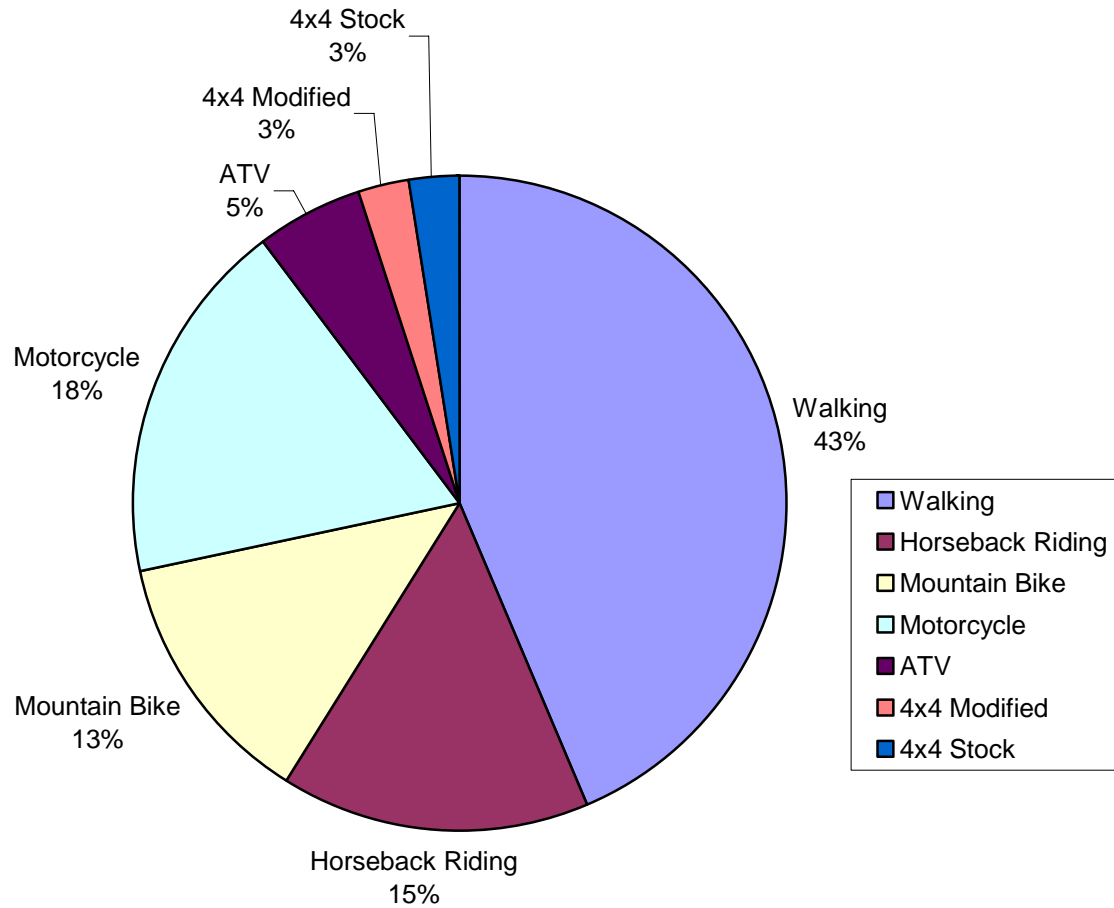
What Activities Do You Enjoy?
(Region 7 - South of Rapid City, Battle Creek, Mt Rushmore, Sheridan Lake)



**What Are Your Concerns With This Place?
(Region 7 - South of Rapid City, Battle Creek, Mt Rushmore, Sheridan Lake
areas)**

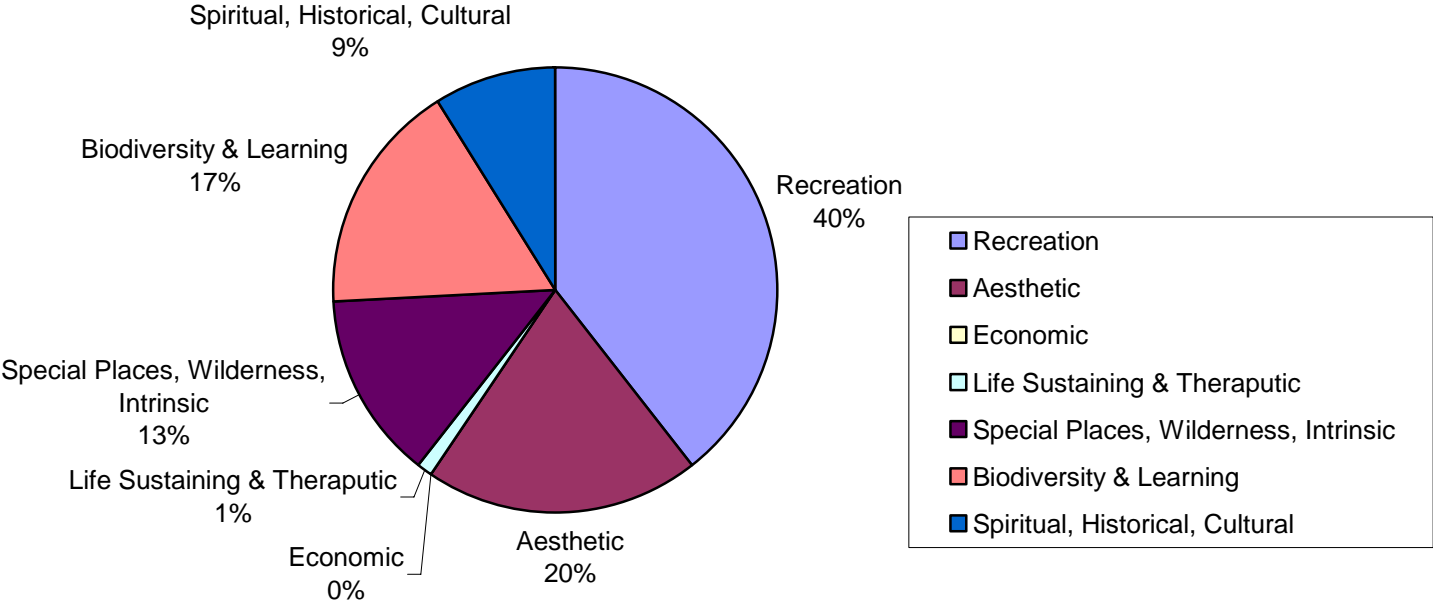


**What Type of Access is Important to You?
(Region 7 - south of Rapid City, Battle Creek, Mt. Rushmore, Sheridan Lake)**

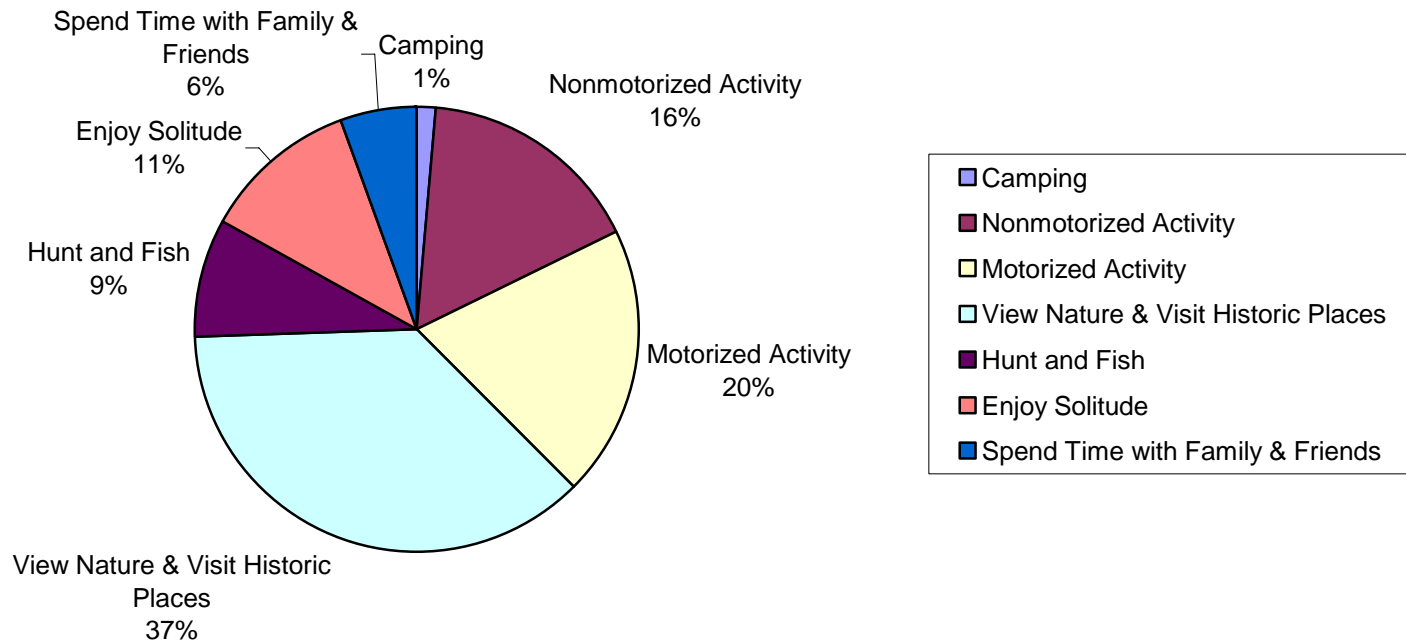


APPENDIX L
REGION 8

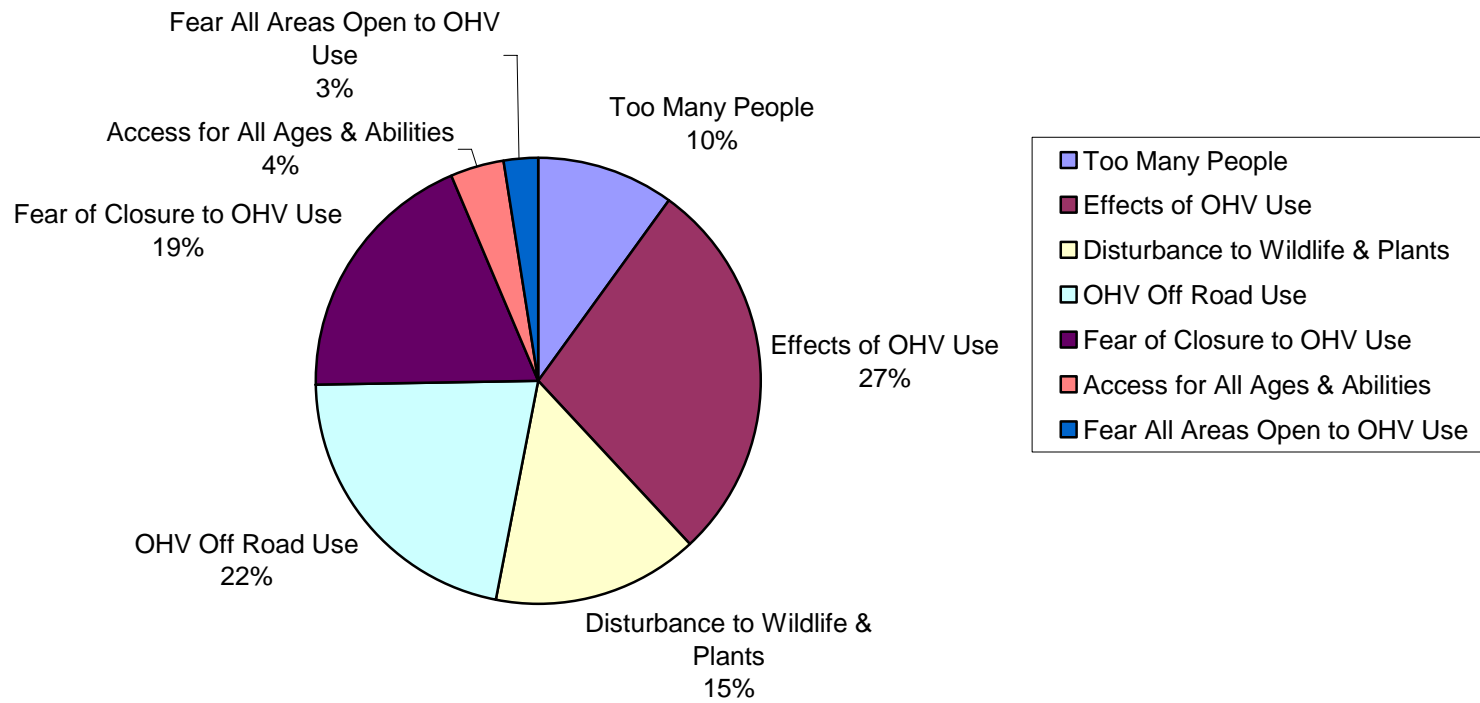
**What Are The Three Things You Value About This Place?
(Region 8 - West of Hwy 385, South of Pactola/Deerfield, Jasper Fire areas)**



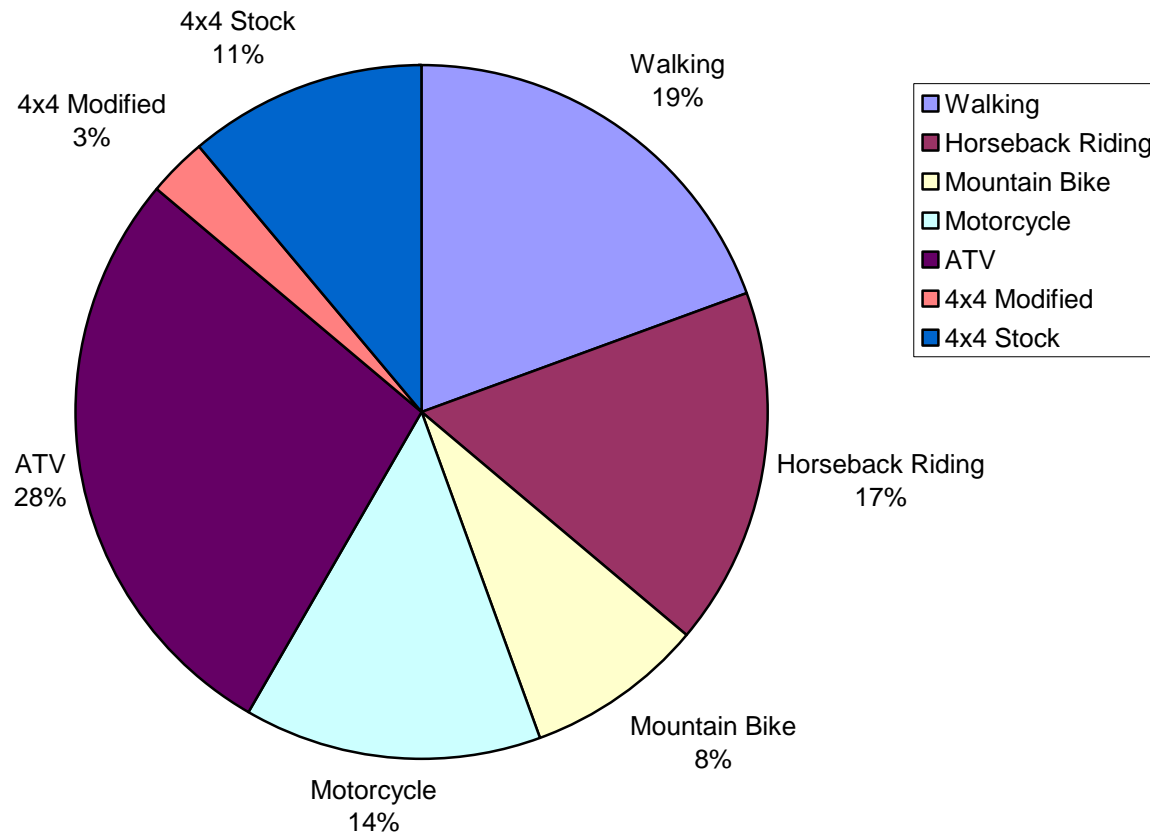
What Activities Do You Enjoy?
Region 8 - West of Hwy 385, South of Pactola/Deerfield, Jasper Fire areas)



**What Are Your Concerns With This Place?
(Region 8 - West of Hwy 385, South of Pactola/Deerfield, Jasper Fire Areas)**

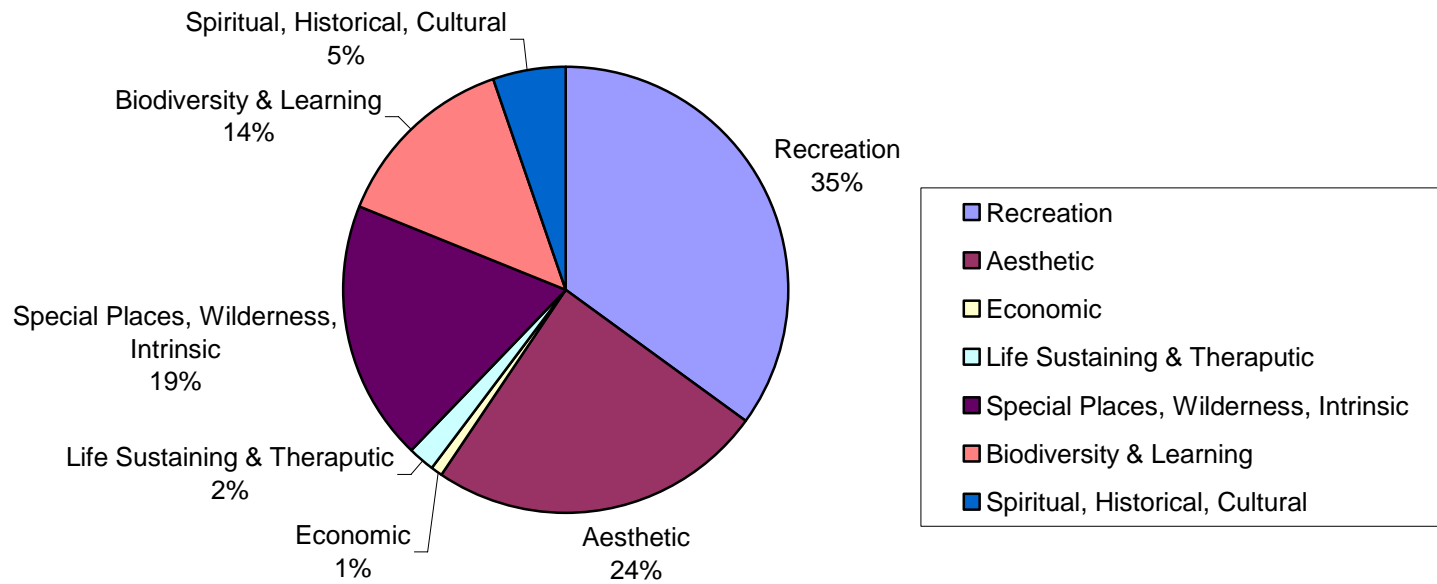


**What Type of Access is Important to You?
(Region 8 - West of 385, south of Pactola/Deerfield, Jasper Fire areas)**

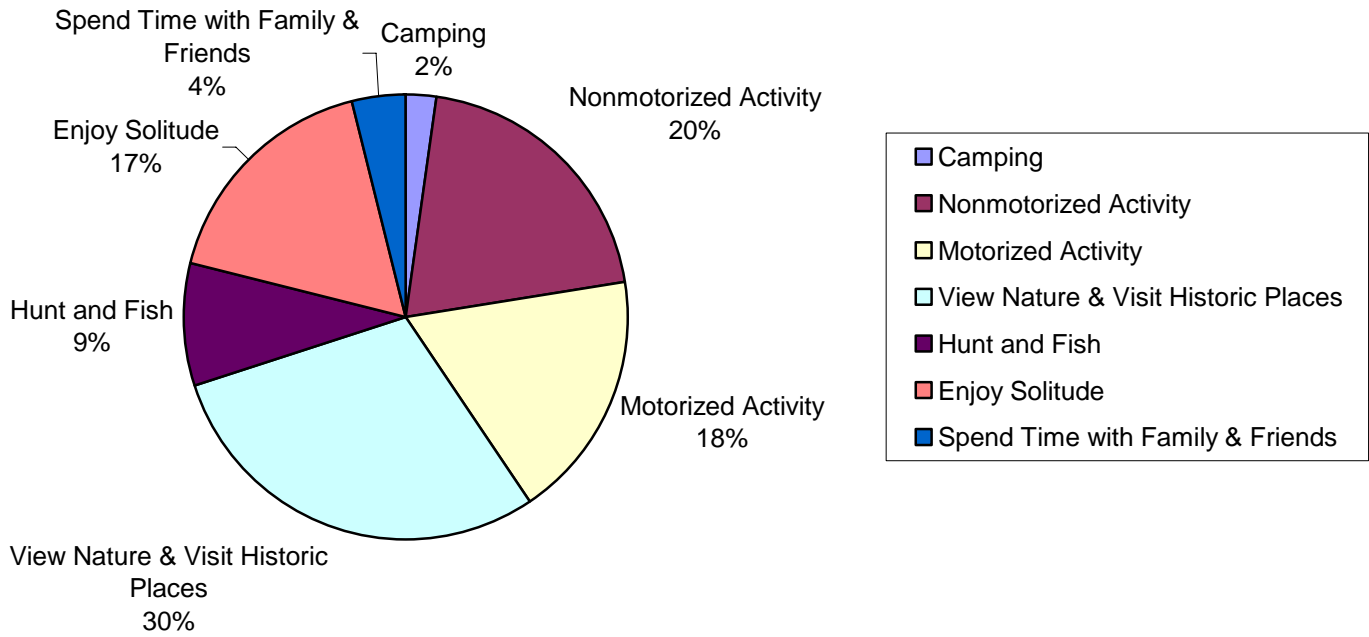


APPENDIX M
REGION 9

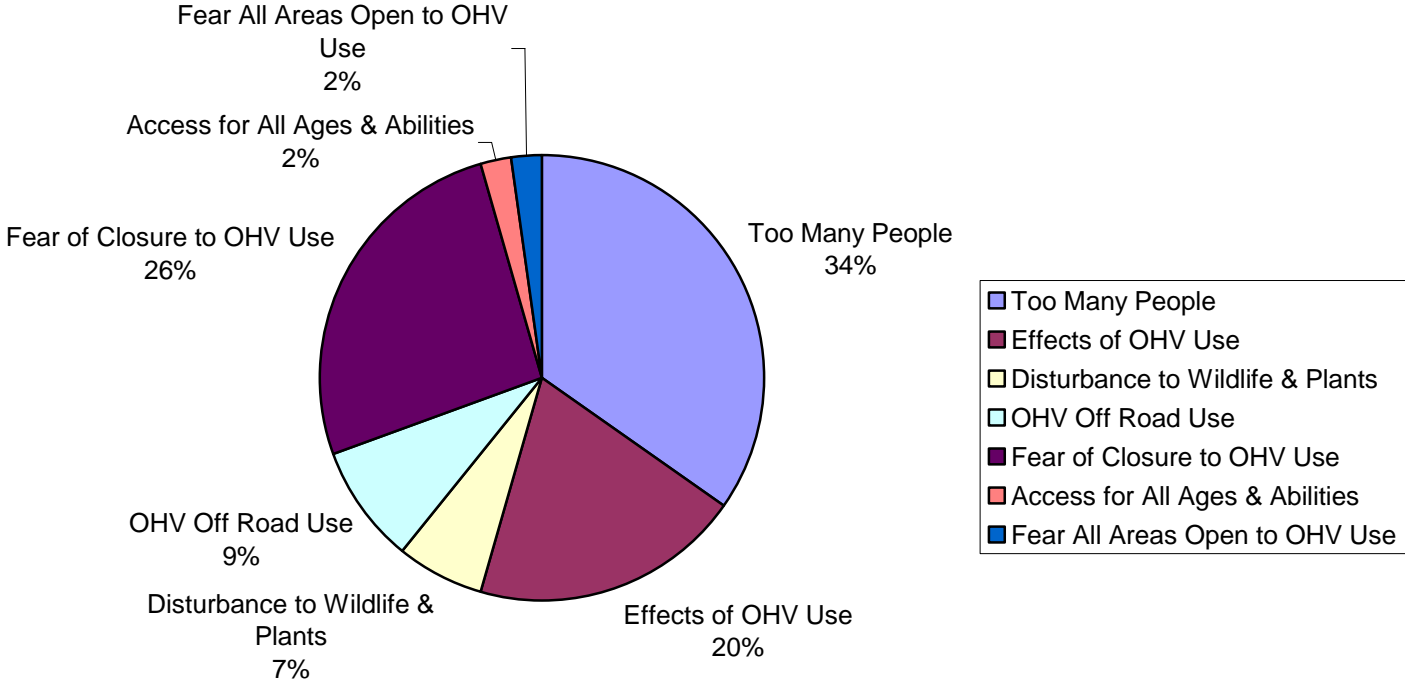
**What Are The Three Things You Value About This Place?
(Region 9 - South of Custer and Highway 16 areas)**



**What Activities Do You Enjoy?
(Region 9 - South of Custer and Hwy 16)**



**What Are Your Concerns With This Place?
(Region 9 - South of Custer and Highway 16)**



**What Type of Access is Important to You?
(Region 9 - south of Custer/Highway 16)**

