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ARIZONA CENTRAL HIGHLANDS PLANT HERBIVORY SERIES

Javelina Plant Resistance Ratings

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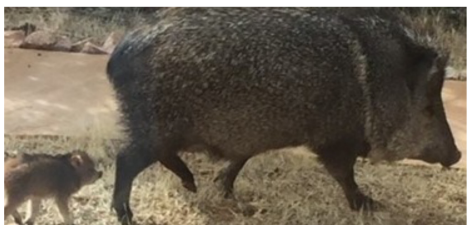
Javelina, or collared peccary (*Dicotyles tajacu*) are naturalized, omnivorous animals with poor eyesight and a keen sense of smell. These animals are believed to have evolved in South America (where they still exist today) and have migrated north over time. Weighing between 35 and 60 lbs., they browse and eat the roots of many plants and often dig up plants they do not actually eat. Their diet changes with food availability and as with many herbivores, it is difficult to predict with absolute certainty what they will and will not eat or destroy. Due to this variability, instead of creating a list of plants in which herbivory is described in a "yes" or "no" fashion, a survey of both the existing literature on the subject and first-hand community experience was conducted. The results from that survey are presented in this publication as a percentage of those responses, which may be used to infer probability of herbivory. In reality, the only way to be certain that javelina will not damage your plants is to exclude them with a fence or other barrier. For more information on fencing design, please see AZ1855.

Materials and Methods

Data were collected from multiple sources (books, websites, social media and surveys), many of which are also reporting data from their own sources, though only tallied in this publication as a single response. The goal was to obtain herbivory data from previous research on javelina and from Arizona residents and businesses with direct experience with the animals. "n" represents the number of data sources (see sources) who provided input; the larger the n value, generally the greater our confidence in the reported probability of damage, though as stated earlier, a single source could be an aggregate of several. Because animal behavior can vary based on several variables such as temperature and rainfall, these plant data have been categorized as **"never to rarely damaged"**, **"sometimes damaged"** and/ or **"frequently damaged"**, with percentages.



Annuals	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Alyssum (*Alyssum* sp.) n=12	58.33%	33.33%	8.33%
Amaranth (*Amaranthus* sp.) n=1	100.00%		
Angel Trumpet (*Datura wrightii*) n=9	100.00%		
Arizona Popcorn Flower (*Plagiobothrys Arizonicus*) n=1		100.00%	
Bacopa (*Sutera cordata*) n=1	100.00%		
Basil (*Ocimum basilicum*) n=6	66.67%	33.33%	
Begonia (*Begonia* sp.) n=1			100.00%
Broccoli (*Brassica* sp.) n=2	50.00%		50.00%
Cabbage (*Brassica* sp.) n=1			100.00%
California Poppy (*Eschscholzia californica*) n=10	80.00%	10.00%	10.00%
Chili pepper (*Capsicum annuum*) n=4	75.00%	25.00%	
Cleome (*Cleome hasslerana*) n=1	100.00%		
Corn (*Zea mays*) n=6	33.33%		66.67%
Cornflower, Bachelor's button (*Centaurea cyanus*) n=2	50.00%		50.00%
Cosmos (*Cosmos* sp.) n=6	83.33%	16.67%	
Cranesbill (*Geranium* sp.) n=2	50.00%	50.00%	
Cucumbers (*Cucumis satuvys*) n=3	66.67%	33.33%	
Dahlia (*Dahlia* sp.) n=5	60.00%	20.00%	20.00%
Dill (*Anethumus graveolens*) n=1	100.00%		
Eggplant (*Solanum melongena*) n=4	75.00%	25.00%	
Gazania, Colorado Gold (*Gazania*) n=2	100.00%		
Gerbera Daisy (*Gerbera jamesonii*) n=2		50.00%	50.00%
Globe amaranth (*Gomphrena* sp.) n=3	100.00%		
Gourd (*Cucurbitaceae*) n=4	25.00%	25.00%	50.00%
Impatiens (*I. walleriana*) n=2	50.00%	50.00%	
Lantana (*Lantana* sp.) n=4	100.00%		
Larkspur (*Delphinium* sp.) n=7	85.71%	14.29%	
Lobelia (*Lobelia* sp.) n=2		50.00%	50.00%
Marigold (*Tagetes* sp.) n=12	75.00%	25.00%	
Melons (*Cucurbitaceae*) n=5	40.00%		60.00%

Annuals continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Morning glory (*Ipomea* sp.) n=6	83.33%		16.67%
Nasturtium (*Tropaeolum majus*) n=3	66.67%		33.33%
Pansies (*Viola* sp.) n=11	27.27%	9.09%	63.64%
Peas (*Pisum sativum*) n=2	50.00%		50.00%
Petunia (*Petunia* sp.) n=11	63.64%	9.09%	27.27%
Portulaca (*P. grandiflora*) n=3	66.67%	33.33%	
Potato (*Solanum tuberosum*) n=3	66.67%		33.33%
Pumpkin (*Cucurbita* sp.) n=7	28.57%		71.43%
Purslane (*Portulaca oleracea*) n=2	50.00%	50.00%	
Salvia (*Salvia* sp.) n=13	100.00%		
Snapdragon (*Antirrhimun majus*) n=10	60.00%	20.00%	20.00%
Spinach (*Spinacia oleracea*) n=3	33.33%		66.67%
Squash (*Cucurbita* sp.) n=7	28.57%		71.43%
Sunflower (*Helianthus* sp.) n=6	100.00%		
Sweet peas (*Lathyrus odoratus*) n=2	100.00%		
Tomato (*Solanum lycopersicum*) n=3	100.00%		
Trans-Pecos thimblehead (*Hymenothrix wisilizena*) n=1			100.00%
Verbena (*Verbena* sp.) n=4	100.00%		
Viola (*Viola* sp.) n=9	44.44%	22.22%	33.33%
Zinnia (*Zinnia* sp.) n=10	70.00%	30.00%	

Biennials	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Foxglove (*Digitalis* sp.) n=4	100.00%		
Hollyhock (*Alcea* sp.) n=7	85.71%	14.29%	
Sweet William (*Dianthus barbatus*) n=4	100.00%		

Bulbs	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Calla lily (*Zantedeschia* sp.) n=4		50.00%	50.00%
Crocus (*Crocus* sp.) n=5	60.00%	20.00%	20.00%
Daffodil (*Narcissus* sp.) n=10	80.00%	20.00%	
Easter lily (*Lilium longiflorum*) n=2	100.00%		
Gladiola (*Gladiolus* sp.) n=3	100.00%		

Bulbs continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Grape Hyacinth (*Muscari* sp.) n=4	50.00%	25.00%	25.00%
Hyacinth (*Hyacinthus* sp.) n=3	33.33%	33.33%	33.33%
Ornamental onion (*Alliums* sp.) n=4	100.00%		
Tulip (*Tulip* sp.) n=11	9.09%	18.18%	72.73%

Grasses	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Blue Fescue (*Festuca* sp.) n=5	100.00%		
Deergrass (*Muhlenbergia rigens*) n=4	100.00%		
Feather Reed Grass (*Calamagrostis* sp.) n=3	100.00%		
Fountain grass (*Pennisetum alopecuroides*) n=2	100.00%		
Little bluestem (*Schizachyrium scoparium*) n=2	100.00%		
Ornamental grasses n=4	100.00%		
Pampus grass (*Cortaderia selloana*) n=4	75.00%	25.00%	
Squirreltail grass (*Elymus elymoides*) n=2	100.00%		
Switch grass (*Panicum virgatum*) n=1	100.00%		

Groundcovers	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Dead Nettle (*Lamium* sp.) n=1		100.00%	
Ivy (*Hedera* sp.) n=3	66.67%	33.33%	
Periwinkle (*Vinca* sp.) n=3	66.67%	33.33%	
Plumbago n=2 (*Ceratostigma plumbaginoides*)	100.00%		
Vinca (*Vinca* sp.) n=8	100.00%		

Perennials	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
4 o'clock (*Mirabilis jalapa*) n=9	66.67%	22.22%	11.11%
African bush daisy (*Euryops pectinatus*) n=1	100.00%		
Agave (*Agave* sp.) n=8	62.50%	12.50%	25.00
Akebia (*Akebia* sp.) n=1	100.00%		

Perennials continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Anise Hyssop (Agastache sp.) n=2	100.00%		
Asparagus (*A. officinalis*) n=2	100.00%		
Aster (*Aster* sp.) n=7	100.00%		
Astilbe (*Astilbe* sp.) n=1	100.00%		
Bear Grass (*Nolina microcarpa*) n=9	100.00%		
Beard tongue, Penstemon (*P.* sp.) n=7	100.00%		
Bee Balm (*Monarda* sp.) n=3	100.00%		
Black Eyed Susan (*Rudbeckia* sp.) n=4	75.00%		25.00%
Blackfoot daisy (*Melanpodium leucanthum*) n=2	50.00%		50.00%
Blanket Flower (*Gaillardia*) n=12	75.00%	8.33%	16.67%
Bleeding heart (*Dicentra* sp.) n=1	100.00%		
Blue Flax (*Linum perrene*) n=5	100.00%		
Boston Ivy (*Parthenocissus* sp.)	#DIV/0!	#DIV/0!	#DIV/0!
Brittlebush (*Encelia farinosa*) n=2	100.00%		
Buckwheat (*Eriogonum* sp.) n=1	100.00%		
Butterfly weed (*Asclepias tuberosa*) n=4	100.00%		
Cactus (*Cactaceae* sp.) n=4			100.00%
Candytuft (*Iberis* sp.) n=2	50.00%	50.00%	
Carnation, Pinks (*Dianthus* sp.) n=5	80.00%	20.00%	
Catmint (*Nepeta* sp.) n=9	100.00%		
Catnip (*Nepeta* sp.) n=1	100.00%		
Chives (*Allium schoenoprasum*) n=5	80.00%	20.00%	
Chocolate Flower (*Berlandieria lyrata*) n=2	100.00%		
Cholla (*Opuntia* sp.) n=4	75.00%	25.00%	
Cholla fruit (*Cylindropuntia*) n=1			100.00%
Chrysanthemum (*C.* sp.) n=7	85.71%	14.29%	
Clematis (*C.* sp.) n=1	100.00%		
Columbine (*Aquilegia* sp.) n=5	80.00%	20.00%	
Coneflower (*Echinacea*) n=5	40.00%		60.00%
Coral Bells (*Heuchera* sp.) n=3			100.00%
Cornflower (*Centaurea montana*) n=2	100.00%		
Daisies (*Asteraceae*) n=2	50.00%		50.00%
Dalea (*D.* sp.) n=1	100.00%		
Daylily (*Hemerocallis* sp.) n=8	87.50%	12.50%	
Delphinium (*Delphinium* sp.) n=1	100.00%		
Desert Spoon (*Dasylirion*) n=1	100.00%		

Perennials continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Dock, Sorrell (*Rumex*) n=1			100.00%
English Ivy (*Hedera helix*) n=1	100.00%		
Euphorbia (*Euphorbia* sp.) n=7	100.00%		
Evening primrose (*Oenohtera* sp.) n=9	77.78%		22.22%
Flax (*Linum* sp.) n=5	100.00%		
Fleabane (*Erigeron* sp.) n=3	100.00%		
Gayfeather (*Liatris* sp.) n=1	100.00%		
Geranium (*Geranium* sp.) n=10	80.00%	10.00%	10.00%
Geranium (*Pelargonium* sp.) n=4	100.00%		
Germander (*Teucrium* sp.) n=5	100.00%		
Globe Thistle (*Echinops ritro*) n=1	100.00%		
Gloriosa Daisy (*Rudbeckia hirta*) n=1		100.00%	
Goldenrod (*Solidago* sp.) n=3	100.00%		
Grape (*Vitis* sp.) n=3	66.67%		33.33%
Hens & Chicks (*Echeveria elegans*) n=2	50.00%	50.00%	
Hens & Chicks (*Sempervivum* sp.) n=6	33.33%	33.33%	33.33%
Herbs (except basil) n=9	88.89%	11.11%	
Honeysuckle (*Lonicera*) n=8	100.00%		
Horehound (*Marrubium vulgare*) n=6	100.00%		
Horseradish (*Armoracia rusticana*) n=1	100.00%		
Hosta (*Hostas* sp.) n=3	33.33%	66.67%	
Hummingbird Mint (*Agastache* sp.) n=4	100.00%		
Ice plant (*Mesembryanthemum* sp.) n=5	60.00%	20.00%	20.00%
Iris (*Iris* sp.) n=19	68.42%	21.05%	10.53%
Lamb's ear (*Stachys byzantina*) n=5	100.00%		
Lavender (*Lavandula* sp.) n=17	100.00%		
Lavender Cotton (*Santolina* sp.) n=7	85.71%	14.29%	
Lupine (**Lupinus** sp.) n=6	50.00%	16.67%	33.33%
Marjoram (*Majorana*) n=1	100.00%		
Mexican Hat (*Ratibida*) n=8	87.50%	12.50%	
Milkweed, whorled (*Asclepias* sp.) n=11	100.00%		
Mint (*Mentha* sp.) n=8	100.00%		
Mullein (*Verbascum* sp.) n=5	100		
Orange globe mallow (*Sphaeralcea munroana*) n=8	100		
Oregano (*Origanum* sp.) n=5	100		

Perennials continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Oriental Poppy (*Papaver orientale*) n=4	100.00%		
Peony (*Paeonia* sp.) n=4	75.00%	25.00%	
Pincushion flower (*Scabiosa caucasica*) n=3	66.67%	33.33%	
Poppy (*Papaver* sp.) n=5	100.00%		
Prairie zinnia (*Zinnia* sp.) n=3	100.00%		
Prickly Pear (*Opuntia* sp.) n=11	18.18%	27.27%	54.55%
Rain lily (*Zephyranthes*) n=4	100.00%		
Red yucca (*Hesperaloe*) n=10	70.00%	10.00%	20.00%
Red-hot-poker (*Kniphofia uvaria)* n=10	80.00%	20.00%	
Rhubarb (*Rheum rhabarbarum*) n=1			100.00%
Rosemary (*Rosmarinus officialis*) n=16	93.75%	6.25%	
Rue (*Ruta* sp.) n=2	100.00%		
Sage (*Salvia* sp.) n=13	69.23%	15.38%	15.38%
Sand verbena (*Abronia*) n=4	75.00%		25.00%
Sedum (*Sedum*) n=6	83.33%		16.67%
Shasta daisy (*Leucanthemum x superbum*) n=2	50.00%	50.00%	
Silver lace vine (*Polygonum aubertii*) n=1	100.00%		
Snow-in-summer (C*erastium tomentosum*)	100.00%		
Society garlic (*Tulbaghia fragrens*) n=2	100.00%		
Spearmint (*Mentha spicata*) n=4	100.00%		
Speedwell, Veronica (*Veronica* sp.) n=2	100.00%		
Spurge (*Euphorbia* sp. Except Chameleon) n=1	100.00%		
St. John's wort (*Hypericum* sp.) n=2	100.00%		
Strawberry (*Fragraria* sp.) n=1	100.00%		
Tansy, common (*Tanacetum vulgare*) n=1	100.00%		
Tarragon (*Artemisia dracunculus*) n=1	100.00%		
Texas sage (*Leucophyllum* sp.) n=2	100.00%		
Thyme (*Thymus* sp.) n=4	100.00%		
Tickseed (*Coreopsis* sp.) n=8	75.00%	25.00%	
Trumpet vine (*Campsis radicans*) n=3	100.00%		
Tumamoc globeberry tubers (*Tumamoca macdougalii*) n=1			100 %

Perennials continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Virginia creeper (*Parthenocissus* sp.) n=7	100.00%		
Wine-cup (*Callirhoe involucrata*) n=3	33.33%	33.33%	33.33%
Wisteria (*Wisteria* sp.) n=1	100.00%		
Yarrow (*Achillea* sp.) n=7	100.00%		
Yucca (*Yucca*) n=8	87.50%	12.50%	

Sedge	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Sedge (*Scirpus lacustris*)	100%		

Shrubs	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
3-leaf sumac (*Rhus trilobata*) n=8	87.50%	12.50%	
Apache Plume (*Fallugia*) n=10	90.00%	10.00%	
Autumn sage (*Salvia greggii*) n=15	100.00%		
Barberry (*Berberis* sp.) n=5	100.00%		
Blue Mist Spirea (*Caryopteris clandonensis*) n=6	100.00%		
Boxwood (*Buxus* sp.) n=4	100.00%		
Broom (*Cytisus* sp.) n=1	100.00%		
Buckthorn (*Rhammus* sp.) n=2	100.00%		
Butterfly Bush (*Buddleia* sp.) n=15	93.33%	6.67%	
Choke cherry (*Prunus virginiana*) n=3	100.00%		
Cinquefoil (*Potentilla* sp.) n=6	100.00%		
Coffee berry (CA buckthorn) (*Frangula californica*) n=3	100.00%		
Cotoneaster (*Cotoneaster* sp.) n=5	100.00%		
Crape myrtle (*Lagerstroemia indica*) n=1	100.00%		
Cresote Bush tubers (*Larrea tridentata*) n=2	50.00%		50%
Deerbrush (*Ceanothus* sp.) n=4	75.00%	25.00%	
Dogwood (*Cornus* sp.) n=2	100.00%		
Elderberry (*Sambucus* sp.) n=2	100.00%		
Euonymus (*Euonymus* sp.) n=4	75.00%	25.00%	
Firethorn (*Pyracantha* sp.) n=6	100.00%		

Shrubs continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Forsythia (*Forsythia*) n=2	100.00%		
Gold dust (*Aucuba japonica*) n=1	100.00%		
Heath (*Erica* sp.) n=2	100.00%		
Heather (*Calliuna* sp.) n=1	100.00%		
Heavenly Bamboo (*Nandina* sp.) n=9	100.00%		
Hibiscus (*Hibiscus* sp.) n=4	75.00%	25.00%	
Holly (*Ilex* sp.) n=2	100.00%		
Japanese Euonymus (*Euonymus japonica*) n=1	100.00%		
Juniper (*Juniperus* sp.) n=18	94.44%	5.56%	
Lilac (*Syringa* sp.) n=9	88.89%	11.11%	
Manzanita (*Archostaphylos* sp.) n=12	91.67%	8.33%	
Mock orange (*Philadelphus* sp.) n=1	100.00%		
Mountain mahogany (*Cercocarpus* sp.) n=9	88.89%	11.11%	
Mugo pine (*Pinus mugo*) n=3	100.00%		
Oleander (*Nerium oleander*) n=1	100.00%		
Oregon Grape (*Mahonia* sp.) n=9	100.00%		
Photinia (*Photinia*) n=4	100.00%		
Purple leaf plum (*Prunus* sp.) n=4	100.00%		
Rabbit brush (*Chrysothamnus* sp.) n=6	100.00%		
Rhododendron (*Rhododendron* sp.) n=1	100.00%		
Rose of Sharon (*Hibiscus syriacus*) n=4	75.00%	25.00%	
Roses (*Rosa* sp.) n=9	88.89%	11.11%	
Russian olive (*Elaeagnus angustifolia*) n=3	100.00%		
Russian sage (*Perovskia*) n=10	100.00%		
Serviceberry (*Amelancier* sp.) n=1	100.00%		
Shrub live oak (*Quercus turbinella*) n=11	90.91%	9.09%	
Silktassel (*Garrya wrightii*) n=9	88.89%	11.11%	
Silverberry (*Elaeagnus pungens*) n=2	100.00%		
Smoke tree (*Cotinus coggygria*) n=3	100.00%		
Spirea (*Spiraea* sp.) n=5	100.00%		
Sumac (*Rhus* sp.) n=5	100.00%		
Sweet acacia (*Vachellia farnesiana*) n=2	50.00%		50.00%
Turpentine bush (*Ericarmeria laricifolia*) n=1	100.00%		
Wormwood (*Artemesia* sp.) n=1	100.00%		

Trees	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
American Holly (*Ilex opaca*) n=2	100.00%		
Apple, Crabapple (*Malus* sp.) n=4	75.00%		25.00%
Arborvitae (*Thuja occidentalis*) n=1	100.00%		
Ash (*Fraxinus* sp.) n=3	66.67%	33.33%	
Aspen, Quaking (*Populus tremuloides*) n=1	100.00%		
Austrian pine (*Pinus nigra*) n=2	100.00%		
AZ cypress (*Cupressus arizonica*) n=9	100.00%		
Birch (*Betula* sp.) n=1	100.00%		
Cedar (*Cedrus* sp.) n=4	100.00%		
Chaste Tree (*Vitex*) n=7	100.00%		
Cherry (*Prunus* sp.) n=3	100.00%		
Citrus (*Various*) n=2	50.00%		50.00%
Cottonwood (*Populus* sp.) n=7	85.71%	14.29%	
Cypress (*Cupressus* sp.) n=5	100.00%		
Douglas Fir (*Pseudotsuga menziesii*) n=2	100.00%		
Fig (*Fig*) n=2	100.00%		
Fir (*Abies* sp.) n=4	75.00%	25.00%	
Flowering Quince (*Chaenomeles* sp.) n=1	100.00%		
Fruit (apples, pears, peaches)	70.00%	10.00%	20.00%
Goldenrain tree (*Koelreuteria paniculata*) n=1	100.00%		
Hackberry (*Celtis* sp.) n=3	100.00%		
Hawthorn (*Crataegus* sp.) n=2	100.00%		
Honey Locust (*Gleditsia triacanthos*) n=4	75.00%		25.00%
Honey Mesquite beans/pods (*Prosopis glandulosa*) n=4	75.00%		25.00%
Italian cypress (*Cupressus sempervirens*) n=1	100.00%		
Jojoba (*Simmondsia chinensis*) n=2	100.00%		
Leyland cypress (*Cupressus × leylandii*) n=3	100.00%		
Locust trees (*Robinia* sp.) n=5	100.00%		
Magnolia (*Magnolia* sp.) n=1	100.00%		
Maidenhair tree (*Gingko biloba*) n=1	100.00%		
Maple trees (*Acer* sp.) n=9	100.00%		
Mimosa (*Albizia* sp.) n=3	100.00%		
Oak, including acorns (*Quercus* sp.) n=16	68.75%	12.50%	18.75%
Palo Verde (*Parkinsonia aculeata*) n=3	66.67%		33.33%
Pine (*Pinus* sp.) n=14	92.86%	7.14%	
Plums (*Prunus* sp.) n=5	80.00%	20.00%	

Trees continued	% Probability of Damage		
Plant Name & Number of Data Points	**Never to Rearely Damaged %**	**Sometimes Damaged %**	**Frequently Severely Damaged %**
Purple leaf sand cherry (*Prunus* x *cistena*) n=2	100%		
Redbud (*Cercis* sp.) n=1	100%		
Screwbean mesquite (*Prosopis pubescens*) n=2	50%		50%
Spruce (*Picea* sp.) n=8	87.50%	12.50%	
Sweetgum (*Liquidambar styraciflua*) n=1	100%		
Texas mountain laurel (*Sophora secuniflora*) n=1	100%		
Tulip tree (*Liriodendron tulipifera*) n=1	100%		
Walnut (*Juglans nigra*) n=2	100%		
Willow (*Salix* sp.) n=1	100%		

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