

## Habitat Improvement Project Guidelines

### Habitat Improvement Guidelines from Arizona Antelope Foundation

	Pronghorn	Mule Deer	Scaled Quail	Gambel's Quail
Space	<p>Low-growing grasses and shrubs, with isolated trees. Diverse, forb, shrub and Grass mix. Select sites with &lt; 3 shrub species on 431 ft. squared (40m squared), usually with no tree species. Avoid sites with &gt; or = 3 shrub species.</p> <p>Cliffrose, green rabbitbush, hackberry, mesquite, serviceberry, mesquite</p>	<p>Mesquite shrublands: mesquite &lt; 60% of ground cover and avoided when mesquite made up at least 60% ground cover.</p> <p>Arroyos: Maintain high structural and species diversity within buffer of about 50-100' along each bank. Mule deer utilize open habitats within approx. 220 yds of cover.</p> <p>Littleleaf sumac, four-wing saltbush, skunkbush,</p>	<p>Mixed Desert Grasslands or Shrublands with open, Level-to-rolling habitat, Avoids pure Grasslands, particularly Stands of introduced Aggressive grass species</p>	<p>Brushy drainages Dominated by Mesquite, acacia, palo verde, skunkbush, littleleaf sumac, and Various cactus species</p>
% of Tree or Brush Canopy Cover	<p>Less 10% slope has plant Densities &lt; 2 foot and canopy cover less than 30%. In SW canopy cover less than 20%. Optimum plant height for optimum habitat utilization = .8 -2'</p>	<p>Mesquite &lt; 60% of ground cover. Mesa tops: 2/4 of management area approx. 10% mesquite cover. Slopes: Thin ¼ treatment area approx. 30% mesquite cover. Strips should be approx. 100' in width with cleared strips of 150-200 ' Bottoms: Maintain ¼ treatment area in &gt; 40% but &lt; 60% mesquite cover.</p>	<p>10-24%, brush cover &lt; 5 feet tall</p>	<p>&gt;40%</p>
% of Grass Canopy cover	<p>Prairie &amp; semi-desert grassland: Grass cover averaged 15%, shrub cover around 10%, forb cover Between 2-10%, tree cover &lt; 2/acre. Fawning cover: grasses, forbs and low shrubs averaging between 10-18 "</p>	<p>Grazed to remove overstory to enhance forb and shrub production. Variety of forbs &amp; shrubs/ acre should exceed 20% forbs &amp; 5% shrubs. Overall: 60-80% grasses and forbs, with 20-40% bare ground populated by annuals</p>	<p>30-50%</p>	<p>30-50%</p>
Distance Between Cover	<p>Woody tree densities &lt; than 2/acre. June-August use of</p>	<p>¼ treatment area in late succession &gt; 40% cover (bottoms), ¼ in &lt; 30% cover</p>	<p>60 yards</p>	<p>40-50 yards</p>

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	Scattered tree cover used as Thermal cover.	(slopes) and 2/4 in at least 10% cover (tops). Untreated areas and thins of approx. 30% should be 10to 20 ac. In size. All 4 treatments present in same quarter section (160ac)		
% of Annual Growth Grazed	Grazed to enhance forb and shrub production	Grazed to enhance forb and shrub production.	< 50%	< 50%
Breeding Season	August thru October  Fawning: end April into early June. Peak fawn drop May 15 (+ or – 7 days)	December thru January  Fawning: Late June - August	Spring after wet winters and after monsoons started	Spring and summer, Heavily dependent on Winter rainfall