Managing Deer In The Landscape
Wildlife Habitat Triangle

- Food
- Water
- Space

Shelter
Each must be of good quality, in ample supply and properly situated in relation to each other.
MONTGOMERY COUNTY DEER HARVEST

<table>
<thead>
<tr>
<th>YEAR</th>
<th>No. Deer Taken</th>
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<tbody>
<tr>
<td>1983</td>
<td>0</td>
</tr>
<tr>
<td>1988</td>
<td>0</td>
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<tr>
<td>2006</td>
<td>0</td>
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<tr>
<td>2007</td>
<td>0</td>
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</table>

The chart shows the number of deer taken from 1983 to 2007, categorized by hunting method: Bow, Firearm, and Muzzleloader.
<table>
<thead>
<tr>
<th>Montgomery</th>
<th>Antlered</th>
<th>Antlerless</th>
<th>Total</th>
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<tbody>
<tr>
<td>Cherrington Coop.</td>
<td>6</td>
<td>26</td>
<td>32</td>
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<tr>
<td>McKee-Beshers WMA</td>
<td>41</td>
<td>85</td>
<td>126</td>
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<tr>
<td>Montgomery Co. M-NCPHC Lands</td>
<td>25</td>
<td>441</td>
<td>466</td>
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<tr>
<td>Patuxent River State Park</td>
<td>50</td>
<td>91</td>
<td>141</td>
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<tr>
<td>Seneca Creek State Park</td>
<td>55</td>
<td>201</td>
<td>256</td>
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<tr>
<td>Strider WMA</td>
<td>6</td>
<td>14</td>
<td>20</td>
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<tr>
<td>Tridelphia/Rocky Gorge (WSSC)</td>
<td>19</td>
<td>111</td>
<td>130</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td></td>
<td></td>
<td><strong>1171</strong></td>
</tr>
</tbody>
</table>
The average deer consumes 6-8 pounds of vegetation each day. That is equal to 1 to 1.5 tons per deer per year.
Crop Damage To Soybeans
Combining Corn
Yield Monitors ID Trouble Spots
DEER VEHICLE COLLISIONS

No. of Accidents


861 1433 1244 1776 1705 1774 1891 2094 2045 2162 2083 2024 1969 1951 1867
Police-based sharpshooting locations in Montgomery Parks

- Agricultural History Farm Park (Derwood)
- Black Hill Regional Park (Boyds)
- North Branch of Rock Creek Stream Valley Park (Derwood)
- Northwest Branch Recreation Park (Aspen Hill)
- Rock Creek Regional Park (Rockville)
- Wheaton Regional Park (Wheaton)
- Woodlawn Special Park (Sandy Spring)
**Lottery Program:** 13 total dates

**NOTE:** On these dates, the affected parks will be closed to the general public from sunrise until sunset.

<table>
<thead>
<tr>
<th>November</th>
</tr>
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<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>14</td>
</tr>
<tr>
<td>21</td>
</tr>
</tbody>
</table>

**December**

| 4, 5, 6 & 7        | Little Bennett Regional Park |
| 17                | Rachel Carson Conservation Park |
| 18                | Blockhouse Point Conservation Park |

**January**

| 2                 | North Germantown Greenway/Great Seneca Stream Valley Park |

**S.W.M.M. Program:** 18 total dates & 4 rain dates

**NOTE:** On these dates, the affected parks will be closed to the general public from sunrise until sunset.

<table>
<thead>
<tr>
<th>October</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
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<tr>
<td>27</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>November</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>17</td>
</tr>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>7</td>
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<tr>
<td>8</td>
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<tr>
<td>14</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>21</td>
</tr>
<tr>
<td>22</td>
</tr>
</tbody>
</table>
Public land* with Active and Recommended Deer Population Management
Montgomery County, MD
2008

Map 2

- Green: Public Land* with no deer population management
- Red: Public Land* with deer population management
- Yellow: Public Land* recommended for future deer management (see Table 1 for potential implementation dates)
- Blue: Federal Facility using experimental Contraceptive program.

* includes some property belonging to WSSC
**Table 6. History of deer population density estimates in selected parks**

Estimates of population density are made in the fall and winter using a combination of spotlight counts, visual counts from helicopter and forward-looking infrared (FLIR) surveys from helicopter. Shaded cells show fiscal years in which population management was conducted.

*All numbers are per square mile*

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Little Bennett RP</td>
<td>125</td>
<td>142</td>
<td>101</td>
<td>88</td>
<td>63</td>
<td>61</td>
<td>37</td>
<td>66</td>
<td>28</td>
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<tr>
<td>Ag/History Farm Park</td>
<td>163</td>
<td>259</td>
<td>155</td>
<td>100</td>
<td>128</td>
<td>108</td>
<td>78</td>
<td>77</td>
<td>47</td>
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<tr>
<td>North Branch SVP</td>
<td>73</td>
<td>116</td>
<td>124</td>
<td>110</td>
<td>107</td>
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<tr>
<td>Black Hill Reg. Park</td>
<td>138</td>
<td>170</td>
<td>85</td>
<td>34</td>
<td>86</td>
<td>109</td>
<td>16</td>
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</tr>
<tr>
<td>Rock Creek RP</td>
<td>118</td>
<td>170</td>
<td>135</td>
<td>215</td>
<td>155</td>
<td>136</td>
<td>111</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>Rachel Carson CP</td>
<td>207</td>
<td>113</td>
<td>133</td>
<td>100</td>
<td>71</td>
<td>22</td>
<td>37</td>
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<td></td>
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<tr>
<td>Wheaton</td>
<td>60</td>
<td>51</td>
<td>na</td>
<td>71</td>
<td>75</td>
<td>**</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northwest Branch</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>220</td>
<td>**</td>
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<tr>
<td>N. Potomac (Muddy Br. SVP)</td>
<td>71</td>
<td>na</td>
<td>105</td>
<td>127</td>
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<td></td>
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<td>36</td>
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<tr>
<td>S. Potomac (C&amp;O canal)</td>
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<td></td>
<td></td>
<td>140</td>
<td>N/a</td>
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<tr>
<td>Goshen Recreational Park</td>
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<td>153</td>
<td>169</td>
<td>127</td>
<td>91</td>
<td>N/a</td>
<td>94</td>
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<tr>
<td>Upper Paint Branch SVP</td>
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<td>47</td>
<td>53</td>
<td>63*</td>
<td>**</td>
<td></td>
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<tr>
<td>Blockhouse Point Cons Park</td>
<td>68</td>
<td>81</td>
<td>85</td>
<td>2</td>
<td>35</td>
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<td></td>
<td></td>
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<tr>
<td>N. Germantown Greenway Park</td>
<td>196</td>
<td>215*</td>
<td>122</td>
<td>54</td>
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<td></td>
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<tr>
<td>Hoyles Mill Cons Park</td>
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<tr>
<td>Woodstock Equestrian Park</td>
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<td></td>
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<td>79</td>
<td>57</td>
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<tr>
<td>Cabin John Reg Park</td>
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<td>18</td>
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<tr>
<td>Great Seneca Park</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>111</td>
<td>33</td>
</tr>
<tr>
<td>Ovid Hazen Wells Rec. Park</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81</td>
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</table>

*estimates based on 2001 data*
# Lyme Disease Cases by State—Center for Disease Control (CDC)

<table>
<thead>
<tr>
<th>State</th>
<th>2005</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York</td>
<td>5,565</td>
<td>4,165</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>4,287</td>
<td>3,994</td>
</tr>
<tr>
<td>New Jersey</td>
<td>3,363</td>
<td>3,134</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>2,336</td>
<td>2,988</td>
</tr>
<tr>
<td>Connecticut</td>
<td>1,810</td>
<td>3,058</td>
</tr>
<tr>
<td>Maryland</td>
<td>1,235</td>
<td>2,576</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>1,459</td>
<td>1,814</td>
</tr>
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</table>

Perhaps only 1 in 10 cases reported to the CDC
## Lyme Disease By County (CDC)

<table>
<thead>
<tr>
<th>County</th>
<th>2005</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Montgomery</td>
<td>216</td>
<td>475</td>
</tr>
<tr>
<td>Howard</td>
<td>150</td>
<td>358</td>
</tr>
<tr>
<td>Baltimore</td>
<td>0</td>
<td>267</td>
</tr>
<tr>
<td>Carroll</td>
<td>140</td>
<td>252</td>
</tr>
<tr>
<td>Frederick</td>
<td>111</td>
<td>221</td>
</tr>
<tr>
<td>Anne Arundel</td>
<td>196</td>
<td>196</td>
</tr>
</tbody>
</table>
'4-Poster' Deer Treatment Bait Station

http://www.aldf.com/fourPoster.shtml
Damminix Tick Tubes—Tick Control Around the Home

Permethrin treated cotton balls. Use in areas that are good mouse habitat, tall grass, dense flower beds, wood piles, woodlots.

- 6 tubes for 1/8 acre habitat
- 24 tubes for ½ acre habitat
- 96 tubes for 2 acres habitat
Max Force Tick Control

10 boxes per ½ to 1 acre of habitat. Active Ingredient is Fipronil.
Spray mouse habitat with insecticides
DEER IMPACTS ON NATIVE VEGETATION

- Browselines evident in many areas
- Browse availability summary on 14 parks surveyed in Montgomery County showed moderate to heavy browse at all locations
- Understory density has been reduced in many areas
- Height, number and species diversity has been reduced in most parks
Deer Browse At Black Hills Regional Park
Fenced Exclosure Area At Black Hills
DEER DENSITY VS SONGBIRD ABUNDANCE

No. of Songbirds

10 Deer      20 Deer      38 Deer       64 Deer

Deer Density/sq. mile

No. of Songbirds

18
16
13
11
0
2.5
5
7.5
10
12.5
15
17.5
20
DEER DENSITY VS WILDFLOWER ABUNDANCE

% Groundcover

<table>
<thead>
<tr>
<th>Deer Density/sq. mile</th>
<th>% Groundcover</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Deer</td>
<td>23</td>
</tr>
<tr>
<td>20 Deer</td>
<td>18</td>
</tr>
<tr>
<td>38 Deer</td>
<td>16</td>
</tr>
<tr>
<td>64 Deer</td>
<td>7</td>
</tr>
</tbody>
</table>
**Initial Deer Herd**

20 does + 6 bucks = 26 deer

**After hunting season**

10 does + 3 bucks = 13 deer

**Each remaining doe produces 1.5 fawns**

10 X 1.5 = 15 new fawns

**Deer Herd Next Year**

15 new deer + 13 remaining = 28 deer total
To maintain population, at least 50% of the does must succumb to various mortality factors each year.
Integrated Pest Management Approach for Deer

- Population Mgmt
- Fencing
- Repellents
- Vegetation Mgmt

IPM with Careful Monitoring
Decision Considerations for Deer IPM

- **Non-lethal options**
  - Fencing
  - Repellents
  - Vegetation management

- **Lethal options**
  - Population management
    - Traditional techniques
    - Managed hunts or sharpshooters
Landscape Damage
RARELY DAMAGED TREES

- Colorado Blue Spruce
- Heritage Birch
- Japanese Falsecypress
- Japanese Cedar
- Scotch Pine
- Douglas Fir
- San Jose/American Holly
- Allegheny Serviceberry
- Flowering/Korean Dogwood
- Honey Locust
American Holly

- 25-35’
- red berries
- slow growth
  - 8-12”/year
- acid well
- drained soil
- sun/partial shade
KOREAN DOGWOOD

• 20-30’ tall, white/pink flowers
• Trouble free plant, likes acid soil
• Grows in sun/partial shade
• Rich fall color
Korean Dogwood
K. Dogwood-variegated
- 20-30’
- red berries
- slow growth
- showy flowers
- partial sun
- best
- reddish fall
- color

FLOWERING DOGWOOD
Flowering Dogwood
- 20-25’
- small tree
- purple/black fruit
- wide range of soils
- sun/partial shade
CRYPTOMERIA JAPONICA

- 50-60’
- cone shaped
- evergreen
- trouble free
- full sun best
JAPANESE FALSECYPRESS

- 50-70’
- evergreen
- full sun
- good for screening
- well drained soil
- pyramidal shape
Japanese Falsecypress
HONEY LOCUST

- 50-70’
- fast grower
  - 2’/year
- legume family
- will survive poor soil/site conditions
- 40-60’
- slow growth
- adaptable tree
- full sun best
- attractive
- landscape plant
- 40–70’
- fast grower
- best in moist soils
- trouble free
- Heritage top variety

RIVER BIRCH
FAVORITE DEER FOOD (shrubs)

- Cherry Dogwood
- Euonymus
- Mountain Laurel
- Arborvitae
- Rhododendron

- Roses
- Hydrangea
- Chinese Holly
- Azalea
- Yews
RARELY DAMAGED SHRUBS

- Barberry
- Boxwood
- Pieris japonica
- Sarcococca
- Forsythia
- Ribes
- Mahonia
- Viburnum
- Nandina
- Spirea
- Witch Hazel
SPIREAA

- 4-5’
- flowers season long
- full sun
- fast growth
- adaptive to many soils
NANDINA

- 6–8’
- bright red berries
- durable evergreen
- trouble free
- sun or shade
Heavenly Bamboo
- barrier plant
- 4-8’
- full sun
- medium growth rate
- dense growth habit
- red berries
- yellow flowers
- numerous purple leaf varieties
Barberry
Barberry
CLOVE CURRANT RIBES

- 6-8’
- early yellow flowers
- clove like scent
- black berries
- sun or shade
- adaptable
- medium growth rate
PIERIS JAPONICA

- 6–12’
- slow grower
  6”/year
- well drained acidic soil
- full sun/partial shade
150 species—numerous cultivars
3–30’ tall
Avoid wet soils
“Doublefile” 8–10’ tall
white flowers
Beautiful landscape plant
WITCH HAZEL

- 15–25’
- native shrub
- yellow flowers
- sun/partial shade
- trouble free
- moist soils
Witch Hazel
8–10’
- Upright growth habit
- Yellow flowers
- Fast grower
- Full sun best
- Adaptable to most soils
MAHONIA

- 3-6’
- slow grower
- yellow flowers
- blue/black berries
- partial shade
- well drained acidic soils
Grape Holly
FREQUENTLY DAMAGED ANNUALS, PERENNIALS & BULBS

- English Ivy
- Sunflower
- Hosta
- Daylily
- Geranium
- Buttercup
- Vinca
- Pansy
- Viola
RARELY DAMAGED ANNUALS, PERENNIALS & BULBS

- Yarrow
- Ageratum
- Anemone
- Snapdragon
- Marigold
- Foxglove
- Aster
- Begonia
- Chrysanthemum
- Iris
Fact Sheet 655: Resistance of Ornamentals to Deer Damage
Using Commercial Deer Repellents To Manage Browsing In The Landscape
WINTER 2000 REPPELLENT TRIALS

- 12 blocks, 6 plants each, 5 repellent treated yews & 1 control yew in each block
- Rock Creek Watershed – Ag History, Hoover Farm, Home Site – 24 plants at each site
- Jan. 11 thru April 11, 13 weeks
Deer repellent study - 2000
RESULTS--2000

- No treatment or control plants suffered an average decrease in plant area of 68%
- Treated plants suffered an average decrease of plant area of 19%
INDIVIDUAL REPELLENTS—2000

- Control Plants—68% loss
- Deer Away Treated—10% loss
- Tree Guard Treated—15% loss
- Deer 1 Treated—21% loss
- Plantskydd Treated—26% loss
- Plant Growth Stimulant Treated—26% loss
INDIVIDUAL REPELLENTS-2001

- Control Plants – 53% loss
- Tree Guard – 34% loss
- Repellex – 30% loss
- Liquid Fence – 36% loss
- Deer Away – 25% loss
- Bobbex – 27% loss
Individual Repellents—2002

- Control Plants—27% loss
- Tree Guard—2 % loss
- Deer Away---1% loss
- Bobbex---7 % loss
- Liquid Fence---4 % loss
- Repelllex---2% loss
Yews – 20% Browse
Yew–30% Browse
Yew–40% Browse
Yews–50% Browse
Yews—65% Browse
YEW – 88% BROWSED
Repellent Trial 2005–06

- 4 Treatments, 2 sites, 5 blocks each site
- 5 Treatments, 1 site, 5 blocks
- Comparing hanging sachet type repellent treatment to spray on repellent to no treatment.
Plato Bobcat Urine Delivered Via Hanging Dispenser—60% Browse
## Repellents for Use on Non Edible Plants

<table>
<thead>
<tr>
<th>Mode of Action</th>
<th>Active Ingredient</th>
<th>Longevity</th>
<th>Name brands</th>
</tr>
</thead>
</table>
| Odor Taste     | Putrescent egg-based | 5-6 weeks | • Deer Away BGR  
• Deer guard  
• Rejex-it Deer Chaser |
| Taste          | Fungicide Thiram-based | 5-6 weeks | • Bonide Chew-Not  
• DB deer repellent & turf fungicide  
• Shotgun Deer and Rabbit Repellent |
| Odor Taste     | Edible animal Protein | 5-6 weeks | • Pantskydd  
• Repellex |
| Taste          | Benzldiethyl Ammonium benzoate BITREX | 5-6 weeks | • Tree Guard  
• Ropel, Repel |
| Odor Taste     | Combination preparations Egg, garlic, pepper, BITREX | 5-6 weeks | • DB Deer 1  
• Deer Off  
• Deer Stopper II  
• Liquid Fence  
• Not Tonight Deer |

New growth requires reapplication more often
## Repellents for Use on Edible Plants

Wash off easily with rainfall. May require anti-transpirant for longevity.

<table>
<thead>
<tr>
<th>Mode of Action</th>
<th>Active Ingredient</th>
<th>Use on Edibles</th>
<th>Longevity</th>
<th>Name brands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Salts / fatty acids</td>
<td>Yes</td>
<td>Washes from rain</td>
<td>Hinder DB deer &amp; rabbit</td>
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<tr>
<td>Odor</td>
<td>Garlic oil</td>
<td>Yes</td>
<td>Washes after rain</td>
<td>DB deer &amp; insect</td>
</tr>
<tr>
<td>Taste</td>
<td>Capsaicin</td>
<td>Yes</td>
<td>Washes after rain</td>
<td>Miller hot sauce</td>
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<tr>
<td>Odor</td>
<td>Predator urines</td>
<td>Not directly</td>
<td>30 days + or -</td>
<td>Coyote, wolf</td>
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<tr>
<td>Taste</td>
<td>Fish by-products and/or beef</td>
<td>No</td>
<td>15-30 days</td>
<td>Bobbex DB plant growth stim.</td>
</tr>
<tr>
<td>Trade Name</td>
<td>Active Ingredient(s)</td>
<td>Cost of one quart (32 oz) of Ready-to-Use</td>
<td>Cost per ounce of RTU material</td>
<td>Cost of concentrate that will make about two gallons (256 oz)</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>-------------------------------------------</td>
<td>---------------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Deer-Away (2 components mixed with water)</td>
<td>37% egg solids</td>
<td>n/a</td>
<td>n/a</td>
<td>$37.18</td>
</tr>
<tr>
<td>Deer Off</td>
<td>3.125% egg solids; 0.0006% capsaicin and 0.0005% garlic</td>
<td>$18.99</td>
<td>$0.59</td>
<td>$44.99</td>
</tr>
<tr>
<td>Deerbusters Deer I</td>
<td>25% egg solids; 0.0042% garlic; 0.0042% white pepper</td>
<td>$19.95</td>
<td>$0.62</td>
<td>$49.95</td>
</tr>
<tr>
<td>Liquid Fence</td>
<td>25% egg solids; 3% garlic powder</td>
<td>$9.95</td>
<td>$0.31</td>
<td>$14.98</td>
</tr>
<tr>
<td>Repellex</td>
<td>7.5% dried animal blood plasma</td>
<td>$18.99</td>
<td>$0.59</td>
<td>$57.50</td>
</tr>
<tr>
<td>Bobbex</td>
<td>edible fish oil, other assorted materials; 0.0024% dried blood; 0.00048% garlic oil</td>
<td>$18.00</td>
<td>$0.56</td>
<td>$26.00</td>
</tr>
<tr>
<td>Plantskydd</td>
<td>87% edible animal protein; 3% vegetable fat; 5% salt; 5% water</td>
<td>$23.00</td>
<td>$0.72</td>
<td>$33.00</td>
</tr>
<tr>
<td>Tree Guard</td>
<td>(bitrex) 0.2% denatonium benzoate</td>
<td>$14.50</td>
<td>$0.45</td>
<td>n/a</td>
</tr>
<tr>
<td>Hinder</td>
<td>15% ammonium soaps of higher fatty acids</td>
<td>n/a</td>
<td>n/a</td>
<td>$6.25</td>
</tr>
<tr>
<td>Miller's Hot Sauce</td>
<td>2.5% capsaicin</td>
<td>$19.95</td>
<td>$0.62</td>
<td>$33.00</td>
</tr>
</tbody>
</table>
Bittrex Systemic Tablets
REPELLENTS—THINGS TO KNOW

- Don’t eliminate browse, reduce it
- Work by taste, smell or combination
- Repellents wash off, need multiple applications
- Repellents alter behavior, important to apply before feeding patterns established
- May not work if other food sources are scarce
Warmer and drier winters will likely increase the effectiveness
Don’t directly reduce rubbing damage, may deter deer from area
Repellents that work in one area may not work in a different area
When selecting consider cost, effectiveness & longevity and compare to fencing
Written Materials

- Fact Sheet 810—Using Commercial Deer Repellents To Manage Deer Browsing In The Landscape
- EB 354—Managing Deer Damage in Maryland-$3.50
- http://www.agnr.umd.edu/MCE/Publications
When spigoted onto your garden hose, the Beast of Havasu can surprise - and sometimes even terrify - deer and jet squirrels within 35 feet away.  This powerful jet of water, with a horizontal reach of more than 45 feet, will dissuade and be as acceptable to your vegetables and flower beds as raccoons and other critters.

Water De-Fence has a brass spray head that can be fixed at the end of a standard garden hose and runs on a 9 volt battery (not included). Above ground components are 17.5" H x 9.5" D x 4.5" L.

#05-496 Water De-Fence $169.00

BETTER WAYS TO WATER
Electric Trainers Teach Deer to Shun Your Garden
Like an electric fence, this innovative device protects your garden from deer damage, but without the expense or the hassle of installation. It produces effective but harmless microshocks, with no danger of continuous shocking. One set humanely protects 1,200 square feet of valuable plantings. Lure attracts deer to post, which gives them a mild shock. Scent lures work short-range, won't attract deer to your property. Set includes three electronic repeller posts. Made by Havahart, the leading designer of humane animal controls.
More Info

www.mcparkandplanning.org/Parks/PPSD/Natural_Resources_Stewardship/Living_with_wildlife/deer/Deer_Index.htm

http://www.dnr.state.md.us/wildlife/options.html

http://www.dnr.state.md.us/wildlife/ddmtques.asp