

**Table 2 - Potential Deer Population Control Methods**

<b>Method</b>	<b>Process</b>	<b>Efficacy</b>	<b>Logistical Constraints</b>	<b>Legal Issues</b>	<b>Cost</b>	<b>Human Health &amp; Safety</b>	<b>Advantages</b>	<b>Disadvantages</b>
<b>Immuno Contraception Vaccines</b>	<ul style="list-style-type: none"> <li>• use bait to attract deer to designated area</li> <li>• 1<sup>st</sup> treatment: capture, tag and dose with anti-fertility agent</li> <li>• subsequent treatments: booster agent administered by dart</li> </ul>	<ul style="list-style-type: none"> <li>• 85-90% effective for each deer treated as long as boosters are maintained</li> <li>• 2 doses first year, single dose each year after</li> <li>• 70%+ of females must receive treatment the 1<sup>st</sup> year. To maintain, must treat 100% of the original 70%</li> </ul>	<ul style="list-style-type: none"> <li>• in order to discharge firearms, permission of landowners within 500 feet is needed</li> <li>• need for boosters requires an adequate number of darting sites</li> <li>• easier to capture for treatment a few does but increasingly difficult to capture a higher percentage of does</li> </ul>	<ul style="list-style-type: none"> <li>• state DEC permit required</li> <li>• Cayuga Heights Village permit required</li> <li>• INAD permit required</li> </ul>	<ul style="list-style-type: none"> <li>• \$1000 per deer for 2 years. Additional cost each year after.</li> </ul>	<ul style="list-style-type: none"> <li>• contamination of meat (necessitates ear tags)</li> <li>• possible stray darts</li> </ul>	<ul style="list-style-type: none"> <li>• public acceptance</li> </ul>	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> treatment requires substantial effort to capture, tag &amp; treat</li> <li>• subsequent booster treatments require repeated effort &amp; cost</li> <li>• locating deer for boosters becomes increasingly difficult over time as deer become wary</li> <li>• no immediate population reduction</li> </ul>
<b>Surgical Sterilization</b>	<ul style="list-style-type: none"> <li>• use bait to attract deer to designated sites</li> <li>• capture deer and perform tubal ligation or vasectomy</li> </ul>	<ul style="list-style-type: none"> <li>• 90% effective for each deer treated</li> <li>• no booster required</li> </ul>	<ul style="list-style-type: none"> <li>• in order to discharge firearms, permission of landowners within 500 feet is needed</li> <li>• removal to operating site</li> </ul>	<ul style="list-style-type: none"> <li>• state DEC permit required</li> <li>• Cayuga Heights permit required</li> </ul>	<ul style="list-style-type: none"> <li>• \$200/deer for first 40 deer plus \$20,000 for capital equipment (true cost not known yet)</li> <li>• cost may increase in the future once veterinarian services are no longer donated</li> </ul>	<ul style="list-style-type: none"> <li>• inconsequential</li> </ul>	<ul style="list-style-type: none"> <li>• high public acceptance</li> <li>• single treatment means less effort over time</li> <li>• one-time cost</li> </ul>	<ul style="list-style-type: none"> <li>• capital equipment cost</li> <li>• necessity for surgeons to be on call</li> <li>• captured males represent nonproductive captures</li> <li>• slow long-term population reduction</li> </ul>
<b>Contraception (use of abortion agents)</b>	<ul style="list-style-type: none"> <li>• this method of population control causes the pregnant female to abort its young</li> <li>• does are treated each year with chemicals delivered using bio-bullets.</li> </ul>	<ul style="list-style-type: none"> <li>• moderate to highly effective (65 - 100% efficacy)</li> </ul>	<ul style="list-style-type: none"> <li>• an adequate percentage of does (70%+) need to be treated each year.</li> <li>• need sites from which to shoot the deer with bio-bullets.</li> <li>• expensive since deer must be treated each year.</li> </ul>	<ul style="list-style-type: none"> <li>• permit is needed for firearm discharge in Cayuga Heights</li> <li>• permission of neighbors within approximately 500 feet needed</li> <li>• DEC approval needed to treat deer with chemical</li> </ul>	<ul style="list-style-type: none"> <li>• \$300 per deer per year for bait and labor</li> <li>• additional capital equipment costs for biobullet rifle</li> </ul>	<ul style="list-style-type: none"> <li>• not an issue</li> </ul>	<ul style="list-style-type: none"> <li>• deer can be treated once a year during the winter</li> </ul>	<ul style="list-style-type: none"> <li>• no immediate population reduction</li> <li>• narrow window of treatment</li> <li>• does must be treated every year</li> <li>• negative public perception</li> <li>• need multiple bait sites</li> </ul>

Method	Process	Efficacy	Logistical Constraints	Legal Issues	Cost	Human Health & Safety	Advantages	Disadvantages
<b>Bait &amp; Shoot</b>	<ul style="list-style-type: none"> <li>• use bait to attract deer to designated sites</li> <li>• use bow &amp; arrow, shotgun, or rifle with silencer</li> <li>• shoot from elevated stands or blinds to eliminate stray bullets or arrows</li> </ul>	<ul style="list-style-type: none"> <li>• 100% effective for each deer treated</li> <li>• no boosters required</li> </ul>	<ul style="list-style-type: none"> <li>• in order to discharge firearms, permission of landowners within 500 feet is needed</li> </ul>	<ul style="list-style-type: none"> <li>• state DEC permit required</li> <li>• Cayuga Heights Village permit required</li> <li>• permission of neighbors within 500 ft. is required</li> </ul>	<ul style="list-style-type: none"> <li>• \$300 /deer</li> <li>• potential for additional cost for law enforcement officers</li> </ul>	<ul style="list-style-type: none"> <li>• safe when properly managed</li> </ul>	<ul style="list-style-type: none"> <li>• immediate population reduction</li> <li>• cost effective</li> <li>• effective way to quickly reduce population in a small area like Cayuga Heights</li> </ul>	<ul style="list-style-type: none"> <li>• low public acceptance</li> <li>• noise of gunfire could cause concern</li> </ul>
<b>Bait &amp; Shoot to reduce herd, followed by Surgical Sterilization of remaining population</b>	<ul style="list-style-type: none"> <li>• use bait and shoot for immediate population reduction</li> <li>• use surgical sterilization to further reduce population</li> </ul>	<ul style="list-style-type: none"> <li>• 90 - 100% effective for each deer treated</li> <li>• no booster required</li> </ul>	<ul style="list-style-type: none"> <li>• in order to discharge firearms, permission of landowners within 500 feet is needed</li> <li>• some deer removed to a field hospital site</li> </ul>	<ul style="list-style-type: none"> <li>• state DEC permit required</li> <li>• Cayuga Heights permit required</li> </ul>	<ul style="list-style-type: none"> <li>• \$200 - \$300/deer plus capital equipment costs</li> <li>• potential for additional cost for lawn enforcement officers</li> </ul>	<ul style="list-style-type: none"> <li>• safe when properly managed</li> </ul>	<ul style="list-style-type: none"> <li>• immediate population reduction</li> <li>• reduced sterilization cost because number of deer to be treated has been reduced</li> <li>• effective for population reduction in a small area like Cayuga Heights for population reduction</li> </ul>	<ul style="list-style-type: none"> <li>• capital equipment cost</li> <li>• after bait and shoot remaining deer are likely to be difficult to capture</li> </ul>