AGRICULTURAL RESOURCE MANAGEMENT SURVEY
ORGANIC APPLE PRODUCTION PRACTICES and COSTS REPORT for 2007

RESPONDENT BOOKLET

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The time required to complete this information collection is estimated to average 65 minutes per response.
Section A, item 1c & Section B, item 7

APPLE

VARIETY CODES

<table>
<thead>
<tr>
<th>Variety</th>
<th>Code</th>
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<tbody>
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<td>Braeburn</td>
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<td>Idared</td>
<td>269</td>
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<tr>
<td>Red Delicious</td>
<td>464</td>
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<tr>
<td>Cortland</td>
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<td>Jonagold</td>
<td>281</td>
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<tr>
<td>Rome</td>
<td>503</td>
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<tr>
<td>Empire</td>
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<tr>
<td>Jonathan/Philip Ric.</td>
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<tr>
<td>Spartan</td>
<td>557</td>
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<tr>
<td>Fuji</td>
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<tr>
<td>McIntosh</td>
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<tr>
<td>Stayman/Stayman Winesap.</td>
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<td>Gala</td>
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<tr>
<td>Mutsu/Crispin.</td>
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<tr>
<td>Winesap</td>
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<td>Golden Delicious</td>
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<tr>
<td>Yellow Newtown</td>
<td>381</td>
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<tr>
<td>York/York Imperial</td>
<td>681</td>
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<tr>
<td>Granny Smith</td>
<td>226</td>
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<tr>
<td>Northern Spy/Red Spy/</td>
<td>387</td>
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<tr>
<td>Red Northern Spy</td>
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<tr>
<td>Heirloom</td>
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<tr>
<td>Pink Lady</td>
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Section B, item 9

ROOTSTOCKS

1. **Standard** – large full-sized trees that may grow more than 25 feet tall.
2. **Dwarf** – trees planted on dwarf rootstocks will grow 10 to 12 feet tall.
3. **Semi-dwarf** – trees planted on semi-dwarf rootstocks will reach a height of 15 to 20 feet.
4. **Other** – trees planted on rootstocks other than the sizes above.

Section B, item 10

ORCHARD FLOOR MANAGEMENT SYSTEM

1. **Grass Alleys** (between tree rows with vegetation-free strips in the tree row)
2. **Vegetative Cover** (Solid)
3. **Clear Cultivation** (Either by cultivation or herbicides)
4. **Mulches** (In the tree row)
5. **Other**
Section B, item 11
REASON FOR CHOOSING ORGANIC PRODUCTION SYSTEM

1 Protect health of family and community?
2 Adopt more environmentally friendly practices?
3 Increase farm Income?
4 For some other reason? [Specify:______________________]

Section B, item 25a
FEDERAL CROP INSURANCE COVERAGE

1 Basic Catastrophic Insurance (Federal CAT) bought for a flat fee and protects against crop loss greater than 50% of average yield, at 55% of the price.

2 Buy-up Above Basic Federal CAT for higher levels of yield and price protection (such as 65% of yield and 100% Price, multi peril crop insurance).

3 Revenue Insurance include Income Protection (IP), Crop Revenue Coverage (CRC), and Revenue Assurance (RA).

4 Organic Plan Insurance includes:
   1) certified organic acreage,
   2) transitional acreage being converted to certified organic, and
   3) buffer zone acreage.

5 Other Federal Crop Insurance (Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.).
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<tr>
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<th>FERTILIZER/PESTICIDE APPLICATION METHODS</th>
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<td>2</td>
<td>Broadcast, Ground with incorporation</td>
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<td>3</td>
<td>Broadcast, by aircraft</td>
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<td>4</td>
<td>In irrigation water</td>
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<tr>
<td>5</td>
<td>Chisel/injected or knifed in</td>
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<td>6</td>
<td>Banded/sidedressed</td>
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<td>7</td>
<td>Foliar or directed spray</td>
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<td>8</td>
<td>Spot treatments (Section D only)</td>
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*Section D only*
### Section C, Item 4

**Common Fertilizers and Their Percent Analysis**

[Enumerator Note: If Respondent cannot report the formulation for Section C, column 7, use the formulations below.]

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<td>Urea</td>
<td>D</td>
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<td>Urea phosphate</td>
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<td>17</td>
<td>44</td>
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</table>
CHEMICALS and PESTICIDES for Organic Apple, All

F = Fungicide; H = Herbicide; I = Insecticide; M = Misc. Other; MD = Defoliant/Dessicant; MG = Growth Regulator
AS = Aqueous Suspension, D = Dust, DF = Dry flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate,
ES = Emulsifiable solution, F or L = Flowable, G or GR = Granular, L = Liquid, LV = Low volatility, M or ME = Microencapsulated,
P = Pellets, S = Solution, SC = Soluble Concentrate, SL = Slurry, SP = Soluble powder, W or WP = Wettable powder,
WDG or WG = Water-Dispersible Granules, WSP = Water-soluble packet

<table>
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<tr>
<th>D/L Class</th>
<th>Code</th>
<th>Product Name</th>
<th>D/L Class</th>
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<td>Able</td>
<td>L MG</td>
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<td>L MG</td>
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<tr>
<td>L M</td>
<td>9266</td>
<td>Garlic Barrier AG</td>
<td>L MG</td>
<td>9316</td>
<td>Perlan PGR</td>
</tr>
<tr>
<td>L I</td>
<td>1942</td>
<td>GF-120 NF Naturalyte Fruit Fly Bait</td>
<td>L MG</td>
<td>9050</td>
<td>Promalin PGR</td>
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<tr>
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<td>9088</td>
<td>GibGro 4LS</td>
<td>L I</td>
<td>1561</td>
<td>ProNatural All Season Spray Oil</td>
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<tr>
<td>D MG</td>
<td>9211</td>
<td>GibGro 5% Powder</td>
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<td>ProVide Plant Growth Regulator</td>
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<tr>
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<td>PyGanic EC 1.4 II</td>
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<td>L MD</td>
<td>9399</td>
<td>Gramoxone Max</td>
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<tr>
<td>L F</td>
<td>7659</td>
<td>HDH Peroxy</td>
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<tr>
<td>D/L</td>
<td>Class</td>
<td>Code</td>
<td>Product Name</td>
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</tr>
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<td></td>
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<tr>
<td>L</td>
<td>MD</td>
<td>9425</td>
<td>Rely Herbicide (aka Ignite 1SC)</td>
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</tr>
<tr>
<td>D</td>
<td>MG</td>
<td>9218</td>
<td>ReTain</td>
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<tr>
<td>D</td>
<td>F</td>
<td>7604</td>
<td>RootShield Granules</td>
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<tr>
<td>L</td>
<td>MD</td>
<td>9172</td>
<td>Roundup Original</td>
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<td>Roundup Ultra</td>
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<tr>
<td>D</td>
<td>MR</td>
<td>9087</td>
<td>Rozol (Pellets)</td>
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<tr>
<td>L</td>
<td>MG</td>
<td>9006</td>
<td>RyzUp</td>
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<tr>
<td>D</td>
<td>F</td>
<td>7484</td>
<td>Serenade Biofungicide (WP)</td>
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<tr>
<td>L</td>
<td>MG</td>
<td>9058</td>
<td>Sevin 4F</td>
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</tr>
<tr>
<td>D</td>
<td>MG</td>
<td>9061</td>
<td>Sevin 80S</td>
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<tr>
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<td>MG</td>
<td>9062</td>
<td>Sevin XLR Plus</td>
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<tr>
<td>D</td>
<td>F</td>
<td>7263</td>
<td>SoilGard 12G</td>
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<tr>
<td>L</td>
<td>F</td>
<td>7569</td>
<td>Sonata AS</td>
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<tr>
<td>L</td>
<td>F</td>
<td>7657</td>
<td>Sporan EC</td>
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<thead>
<tr>
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<th>Class</th>
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</thead>
<tbody>
<tr>
<td>L</td>
<td>MD</td>
<td>9086</td>
<td>Strychnine Bait (.5%)</td>
</tr>
<tr>
<td>L</td>
<td>I</td>
<td>1454</td>
<td>Superneem 4.5-B</td>
</tr>
<tr>
<td>D</td>
<td>F</td>
<td>7605</td>
<td>T-22 HC</td>
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<tr>
<td>D</td>
<td>F</td>
<td>7481</td>
<td>T-22 Planter Box Biofungicide</td>
</tr>
<tr>
<td>D</td>
<td>I</td>
<td>1131</td>
<td>Vendex 50WP</td>
</tr>
<tr>
<td>L</td>
<td>I</td>
<td>1867</td>
<td>Virosoft Bioinsecticide</td>
</tr>
<tr>
<td>L</td>
<td>H</td>
<td>4004</td>
<td>Weedar 64A</td>
</tr>
<tr>
<td>L</td>
<td>I</td>
<td>2088</td>
<td>Wisdom Flowable</td>
</tr>
<tr>
<td>D</td>
<td>I</td>
<td>1685</td>
<td>XenTari Biological</td>
</tr>
<tr>
<td>D</td>
<td>I</td>
<td>1377</td>
<td>XenTari WDG</td>
</tr>
<tr>
<td>D</td>
<td>F</td>
<td>7561</td>
<td>Yellow Jacket Special Dusting Sulfur</td>
</tr>
<tr>
<td>D</td>
<td>I</td>
<td>1967</td>
<td>Zeal Miticide</td>
</tr>
<tr>
<td>D</td>
<td>MR</td>
<td>9063</td>
<td>Zinc Phosphide Oat Bait</td>
</tr>
</tbody>
</table>

**Conversion Factors for Liquid and Dry Products**

**Liquid Products**
- 1 Gallon = 4 Quarts
- 1 Gallon = 3.785 Liters
- 1 Gallon = 8 Pints
- 1 Gallon = 128 Ounces
- 1 Quart = 2 Pints
- 1 Pint = 16 Fluid Ounces
- 2 Cups = 1 Pint

**Dry Products**
- 1 Pound = 16 Dry Ounces
- 1 Ounce = 28.3 Grams
- 1 Ounce = .0625 Pounds
- 1 Pound = 453 Grams
- 1 Kilogram = 1,000 Grams
- 1 Kilogram = 2.2046 Pounds
### PEST MANAGEMENT INFORMATION SOURCES

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>County, Cooperative, or University Extension Advisor, Publications or Demonstrations</td>
</tr>
<tr>
<td>2</td>
<td>Farm Supply or Chemical Dealer</td>
</tr>
<tr>
<td>3</td>
<td>Commercial Scouting Service</td>
</tr>
<tr>
<td>4</td>
<td>Independent Crop Consultant or Pest Control Advisor/Custom Applicator</td>
</tr>
<tr>
<td>5</td>
<td>Other Growers or Producers</td>
</tr>
<tr>
<td>6</td>
<td>Producer Associations, Newsletters or Trade Magazines</td>
</tr>
<tr>
<td>7</td>
<td>Electronic Information Services (<em>DTN, Internet, World Wide Web, etc.</em>)</td>
</tr>
<tr>
<td>8</td>
<td>Employee Pest Advisor</td>
</tr>
<tr>
<td>9</td>
<td>Packinghouse or warehouse consultant</td>
</tr>
<tr>
<td>10</td>
<td>Product lists of approved organic products (OMRI, WSDA, etc.)</td>
</tr>
<tr>
<td>11</td>
<td>Other – (Specify:________________________________________________________)</td>
</tr>
<tr>
<td>12</td>
<td>None – Operator used no <strong>outside</strong> information source</td>
</tr>
</tbody>
</table>

**Section E, item 25. . . . . . . .**
# MACHINERY and IMPLEMENT CODES

## PLOWS and DISKS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Chisel Plow (Big Ox)</td>
</tr>
<tr>
<td>02</td>
<td>Coulter Plow (Coulter Chisel, Soil Saver, Soil Conserver)</td>
</tr>
<tr>
<td>03</td>
<td>Deep Ripper (Knife, Bed knife, Slide)</td>
</tr>
<tr>
<td>04</td>
<td>Disk Plow (Disk, Shovels, Reel &amp; Spikes)</td>
</tr>
</tbody>
</table>

## MISCELLANEOUS TILLAGE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>Regular</td>
</tr>
<tr>
<td>06</td>
<td>Two Way</td>
</tr>
<tr>
<td>07</td>
<td>Stubble-mulch (Noble, Sweeps, Hoeme Plow, Muckeroy Plow)</td>
</tr>
<tr>
<td>08</td>
<td>Subsoiler (Chisel, Ripper, V-ripper)</td>
</tr>
<tr>
<td>09</td>
<td>Disk-chisel (Mulch Tiller)</td>
</tr>
</tbody>
</table>

## BEDDERS-SHAPERS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Chisel Plow</td>
</tr>
<tr>
<td>02</td>
<td>Coulter Plow</td>
</tr>
<tr>
<td>03</td>
<td>Deep Ripper</td>
</tr>
<tr>
<td>04</td>
<td>Disk Plow</td>
</tr>
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</table>

## PACKERS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Regular</td>
</tr>
<tr>
<td>02</td>
<td>Two Way</td>
</tr>
<tr>
<td>03</td>
<td>Stubble-mulch</td>
</tr>
<tr>
<td>04</td>
<td>Subsoiler</td>
</tr>
<tr>
<td>05</td>
<td>Disk-chisel</td>
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</tbody>
</table>

## FERTILIZER APPLICATORS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Air Blast Sprayer</td>
</tr>
<tr>
<td>02</td>
<td>Pruning Platform</td>
</tr>
<tr>
<td>03</td>
<td>Weed Badger</td>
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</tbody>
</table>

## SPECIALIZED APPLE EQUIPMENT

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<th>Description</th>
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<tbody>
<tr>
<td>01</td>
<td>Orchard Sprayer</td>
</tr>
<tr>
<td>02</td>
<td>Air Blast Sprayer</td>
</tr>
<tr>
<td>03</td>
<td>Pruning Platform</td>
</tr>
<tr>
<td>04</td>
<td>Weed Badger</td>
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</tbody>
</table>

## HARROWS (DRAGS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Heavy Harrow</td>
</tr>
<tr>
<td>02</td>
<td>Field Conditioner (Scratcher, Seed Bed Conditioner, Soil Conditioner, Ground Hog)</td>
</tr>
<tr>
<td>03</td>
<td>Flex-tine Tooth (Coil Tine)</td>
</tr>
<tr>
<td>04</td>
<td>Multi-weeder (Cultivator &amp; Harrow)</td>
</tr>
<tr>
<td>05</td>
<td>Rail, Pipe, Log, Plank</td>
</tr>
<tr>
<td>06</td>
<td>Rod Weeder</td>
</tr>
<tr>
<td>07</td>
<td>Roller (Culti-mulcher, Pulvi-mulcher, Crumbler, Packer-mulcher, Packer &amp; Shanks)</td>
</tr>
<tr>
<td>08</td>
<td>Spike Tooth</td>
</tr>
<tr>
<td>09</td>
<td>Spring Tooth</td>
</tr>
<tr>
<td>10</td>
<td>Powered Spike Tooth Harrow</td>
</tr>
</tbody>
</table>

## CULTIVATORS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Regular Digger</td>
</tr>
<tr>
<td>02</td>
<td>Triple K, Danish Tined, Swedish Tined, Incorporated, S-tine, Cultivator, Vibra-shank Harrow, Lilliston Tiller</td>
</tr>
<tr>
<td>03</td>
<td>Furrow-out</td>
</tr>
<tr>
<td>04</td>
<td>Rotary Hoe (Crust Buster)</td>
</tr>
</tbody>
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## TREE PLANTER

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>01</td>
<td>Disk Sweep, Shovel</td>
</tr>
<tr>
<td>02</td>
<td>Rolling, Rotary</td>
</tr>
<tr>
<td>03</td>
<td>Heavy Duty (Duckfoot Cultivator)</td>
</tr>
<tr>
<td>04</td>
<td>Marker</td>
</tr>
<tr>
<td>05</td>
<td>Fallow Master</td>
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<tr>
<td>CHEMICAL APPLICATIONS</td>
<td>LAND FORMING EQUIPMENT</td>
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<tr>
<td>-------------------------------------------</td>
<td>--------------------------------</td>
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<tr>
<td>91 Aerial (Airplane)</td>
<td>171 Backhoe</td>
</tr>
<tr>
<td>92 Attachment to implement</td>
<td>172 Disk Border Maker</td>
</tr>
<tr>
<td>93 Largest Self propelled</td>
<td>173 Ditch Closer</td>
</tr>
<tr>
<td>(or Large Truck)</td>
<td>174 Ditcher</td>
</tr>
<tr>
<td>94 Motocycle/atv Sprayer</td>
<td>175 Levee Plow Disk</td>
</tr>
<tr>
<td>95 Small Self-propelled</td>
<td>176 Quarter Drain Machine</td>
</tr>
<tr>
<td>(Spra-coupe, Hi-cycle)</td>
<td>177 Rear Mounted Blade</td>
</tr>
<tr>
<td>96 Small Truck (Skid Mounted)</td>
<td>178 Corrugator</td>
</tr>
<tr>
<td>97 Tractor Mounted</td>
<td>(Furrow Dicer, Dammar Dicer, Dicer)</td>
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<tr>
<td>98 Trailer Mounted</td>
<td>180 Land Plane Leveler</td>
</tr>
<tr>
<td></td>
<td>(Water Leveler)</td>
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<tr>
<td></td>
<td>181 Laser Planer, Laser Leveler</td>
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<tr>
<td></td>
<td>182 Gate Setter</td>
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<tr>
<td></td>
<td>183 Bull Dozer</td>
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**ENUMERATOR NOTE:**

For Land Forming Equipment codes 171 – 183, enter Total Hours Operated in column 9.

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<thead>
<tr>
<th>DRILLS and SEEDERS</th>
<th>MOWERS and BALERS</th>
<th>OTHER IMPLEMENTS</th>
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<tbody>
<tr>
<td>101 Aerial Seeding</td>
<td>141 Amish Harvester</td>
<td>191 Burn Buggy</td>
</tr>
<tr>
<td>102 Broadcast Seeder</td>
<td>145 Motor Mounted</td>
<td>192 Chaff/straw Saver</td>
</tr>
<tr>
<td></td>
<td>146 PTO (Large)</td>
<td>193 Electric-discharge Weed Killer</td>
</tr>
<tr>
<td></td>
<td>147 PTO (Small)</td>
<td>196 Off-field Thresher</td>
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<td></td>
<td>148 Self-propelled</td>
<td>197 Rock Picker</td>
</tr>
<tr>
<td></td>
<td>159 Stacker, Automatic</td>
<td>198 Rock Windower or Rake</td>
</tr>
<tr>
<td></td>
<td>Mowers</td>
<td>199 Rodent (Gopher) Killer</td>
</tr>
<tr>
<td></td>
<td>149 Mower-chopper-Rotary</td>
<td>200 Roller Groover</td>
</tr>
<tr>
<td></td>
<td>150 Conditioner/PTO</td>
<td>201 Rubber-wheeled Weed Puller</td>
</tr>
<tr>
<td></td>
<td>151 Self-propelled</td>
<td>202 Flail Shredder</td>
</tr>
<tr>
<td></td>
<td>152 Drum disk</td>
<td>203 Rotary Shredder</td>
</tr>
<tr>
<td></td>
<td>153 Flail</td>
<td>204 Silage Harvester</td>
</tr>
<tr>
<td></td>
<td>154 Sickle</td>
<td>205 Stalk Shredder, Stalk Cutter</td>
</tr>
<tr>
<td></td>
<td>Rake</td>
<td>206 Swath Roller</td>
</tr>
<tr>
<td></td>
<td>155 Dump</td>
<td>207 Tractor or Truck-No attachments</td>
</tr>
<tr>
<td></td>
<td>156 Side Delivery</td>
<td>223 Flame Thrower</td>
</tr>
<tr>
<td></td>
<td>157 Wheel</td>
<td></td>
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<tr>
<td></td>
<td>158 Hay Tedder</td>
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</tr>
<tr>
<td></td>
<td>159 Stacker, Automatic</td>
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</tbody>
</table>

**ENUMERATOR NOTE:**

For Hauling Equipment codes above, enter Total Hours Operated in column 9.

<table>
<thead>
<tr>
<th>HARVESTING EQUIPMENT</th>
<th>OTHER IMPLEMENTS</th>
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</thead>
<tbody>
<tr>
<td>Small Grains/Row Crops Combine</td>
<td>191 Burn Buggy</td>
</tr>
<tr>
<td>121 Hillside</td>
<td>192 Chaff/straw Saver</td>
</tr>
<tr>
<td>122 Self propelled, 2wd</td>
<td>193 Electric-discharge Weed Killer</td>
</tr>
<tr>
<td>123 Self-propelled, 4wd</td>
<td>196 Off-field Thresher</td>
</tr>
<tr>
<td>124 Track</td>
<td>197 Rock Picker</td>
</tr>
<tr>
<td>125 PTO/motor Mounted</td>
<td>198 Rock Windower or Rake</td>
</tr>
<tr>
<td>Windrower-swather</td>
<td>199 Rodent (Gopher) Killer</td>
</tr>
<tr>
<td>126 (Grain/hay)PTO</td>
<td>200 Roller Groover</td>
</tr>
<tr>
<td>127 (Grain/hay) self-propelled</td>
<td>201 Rubber-wheeled Weed Puller</td>
</tr>
<tr>
<td>133 Corn Picker</td>
<td>202 Flail Shredder</td>
</tr>
<tr>
<td>134 Hand Harvesting</td>
<td>203 Rotary Shredder</td>
</tr>
</tbody>
</table>

PTO Power Take-off

WD Wheel Drive
## SECTION G, IRRIGATION TYPE CODES

<table>
<thead>
<tr>
<th>PRESSURE SYSTEMS</th>
<th>GRAVITY SYSTEMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 HAND-MOVE</td>
<td>10 SIPHON TUBE from unlined ditches</td>
</tr>
<tr>
<td>2 SOLID or PERMANENT SET</td>
<td>11 SIPHON TUBE from lined ditches</td>
</tr>
<tr>
<td>3 SIDE ROLL or WHEEL LINE</td>
<td>12 PORTAL SYSTEM from unlined ditches</td>
</tr>
<tr>
<td>4 CENTER PIVOT or LINEAR MOVE with sprinklers on main line</td>
<td>13 PORTAL SYSTEM from lined ditches</td>
</tr>
<tr>
<td>5 CENTER PIVOT or LINEAR MOVE with sprinklers below main line, but more than 2 feet above ground</td>
<td>14 ANY POLY PIPE SYSTEM</td>
</tr>
<tr>
<td>6 CENTER PIVOT or LINEAR MOVE with sprinklers less than 2 feet above ground</td>
<td>15 GATED PIPE (not poly pipe)</td>
</tr>
<tr>
<td>7 BIG GUN</td>
<td>16 IMPROVED GATED PIPE (surge flow or cablegation not poly pipe)</td>
</tr>
<tr>
<td>8 LOW FLOW IRRIGATION (drip, trickle or micro sprinkler)</td>
<td>17 SUBIRRIGATION</td>
</tr>
<tr>
<td>9 OTHER - SPECIFY</td>
<td>18 OPEN DISCHARGE FROM WELL or PUMP</td>
</tr>
<tr>
<td></td>
<td>19 OTHER - SPECIFY</td>
</tr>
</tbody>
</table>

## RUN-OFF CODES

1 Retained at the end of the block?
2 Reused to irrigate on the farm?
3 Collected in evaporation ponds on the farm?
4 Drained from the farm?
5 There is no runoff.

Section G, item 10: 

- 12 -