

# 20 Comparison integrated and organic strawberry production

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In the Southeast region of the Netherlands, several types of experimental vegetable farming systems are tested. The next table shows and compares the first year cultivation results of strawberries in two different systems.

System	Organic, Fresh market vegetable system	Integrated Specialised strawberry farming system
Location	Meterik, sandy soil	Meterik, sandy soil
Rotation	<ol style="list-style-type: none"> <li>1. Leek</li> <li>2. Green beans – tagetes</li> <li>3. Strawberry</li> <li>4. Triticale + clover</li> <li>5. Lettuce – Chinese cabbage</li> <li>6. Chinese cabbage lettuce</li> </ol>	<ol style="list-style-type: none"> <li>1. strawberry early + catch crop</li> <li>2. cereal or other rest crop</li> <li>3. strawberry plant production</li> <li>4. catch crop + strawberry late</li> <li>5. cereal or other rest crop</li> <li>6. strawberry summer + catch crop</li> </ol>
Variety Plant date	Elsanta 14-8-00	Elsanta 14-4-01
Fertilisation	Green manure (tagetes) Liquid cow manure (spring) 20 ton N 90 kg ha <sup>-1</sup> , P <sub>2</sub> O <sub>5</sub> 18 kg ha <sup>-1</sup> , K <sub>2</sub> O 112 kg ha <sup>-1</sup>	Fertirrigation N 50 kg ha <sup>-1</sup> , K <sub>2</sub> O 30 kg ha <sup>-1</sup> , no P because of high levels of soil phosphate reserves
Crop protection diseases	No treatments	<i>Botrytis cinerea</i> <ul style="list-style-type: none"> <li>• pyrimethanil (Scala) 0,6 kg ha<sup>-1</sup> and</li> <li>• tolylfluanide (Eupareen) 0,57 kg ha<sup>-1</sup></li> </ul>
Crop protection pests	Trips <ul style="list-style-type: none"> <li>• <i>Amblyseius cucumeris</i> (200 m<sup>2</sup>)</li> <li>• <i>Hypoaspis aculeifer</i> (70 m<sup>2</sup>)</li> </ul>	Trips and <i>Anthonomus rubi</i> <ul style="list-style-type: none"> <li>• deltamethrin (Decis) 0,00075 kg a.i ha<sup>-1</sup></li> </ul>
Crop protection weeds	<ul style="list-style-type: none"> <li>• Finger weeder – 3 applications 2000</li> <li>• Hoeing 1 application early spring 2001</li> <li>• Plastic soil cover and straw mulch 2001</li> <li>• Hand weeding 60 hours ha<sup>-1</sup></li> </ul>	Plastic soil cover and straw mulch No input of herbicides or hand weeding
Yields 2001	16 ton ha <sup>-1</sup>	23 ton ha <sup>-1</sup>