

<ol style="list-style-type: none"> <li>1. Sorghum bicolor</li> <li>2. Past production has been small quantities for table syrup</li> </ol>	<ol style="list-style-type: none"> <li>1. Produces sugar in the top growth and stores it in the roots and tubers</li> <li>2. Perennial so it comes back year after year</li> </ol>	<ol style="list-style-type: none"> <li>1. Only grown in four states in the U.S.</li> </ol>
<ol style="list-style-type: none"> <li>1. Promising sugar crop due to its high yield</li> <li>2. Popular in the UK</li> <li>3. Higher fermentation than sugar beets and comparable high resistance to loss of fermentable sugars during storage</li> </ol>	<ol style="list-style-type: none"> <li>1. Can be frozen in cold winters as cheap storage</li> <li>2. Requires only one gallon of water to make a gallon of ethanol</li> <li>3. Feedstock is 19% sugar</li> </ol>	<ol style="list-style-type: none"> <li>1. Use of grapes, apricots, peaches, and pears</li> <li>2. More valuable at the raw stage than converting them into ethanol</li> </ol>
<ol style="list-style-type: none"> <li>1. Grain—corn, sorghum, wheat, barley</li> <li>2. Tubers—potatoes, sweet potatoes</li> <li>3. Products can be stored with minimal loss</li> <li>4. Additional equipment needed</li> <li>5. Additional labor required</li> <li>6. Additional energy costs with breaking down the chains</li> </ol>	<ol style="list-style-type: none"> <li>1. The stalks and leaves of sugar and starch crops</li> <li>2. Composed of mainly cellulose</li> <li>3. Cellulose needs to be broken down into sugar</li> <li>4. Breaking cellulose bonds are more costly and complex than breaking starch bonds</li> </ol>	<ol style="list-style-type: none"> <li>1. Forage sorghum, Sudan grass, switchgrass, miscanthus</li> <li>2. Holds promising future</li> <li>3. Several perennial species that can be harvested every year</li> <li>4. More efficient, very little lignin in composition</li> <li>5. Contains quantities of starch and sugar in addition to cellulose.</li> </ol>

**Sweet sorghum**



**Jerusalem artichoke**



**Sugar cane**



**Fodder beets**



**Sugar beets**



**Fruit crops**



**Starch crops**



**Crop residue**



**Forage crops**

