**Materials List for:**

**Method to Produce Durable Pellets at Lower Energy Consumption Using High Moisture Corn Stover and a Corn Starch Binder in a Flat Die Pellet Mill**

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URL: [https://www.jove.com/video/54092](https://www.jove.com/video/54092)

DOI: doi:10.3791/54092

### Materials

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat die pellet mill</td>
<td>Colorado Mill Equipment, Canon City, CO, USA</td>
<td>ECO-10 pellet mill</td>
<td></td>
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<tr>
<td>Heating tapes</td>
<td>BriskHeat, Columbus, OH, USA</td>
<td>Silicon Rubber Heater, Etched foil elements</td>
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<tr>
<td>Thermocouples</td>
<td>Watlow, Burnaby, BC, Canada</td>
<td>J-type</td>
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<tr>
<td>Variable frequency drive</td>
<td>Schneider Electric, Palatine, IL, USA</td>
<td>Altivar 71</td>
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<tr>
<td>Pellet cooler</td>
<td>Colorado Mill Equipment, Canon City, CO, USA</td>
<td>CME ECO-HC6</td>
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<tr>
<td>Data logging software</td>
<td>National Instruments Corporation, Austin, TX, USA</td>
<td>Labview software</td>
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<tr>
<td>Durability tester</td>
<td>Seedburo Equipment Co., Des Plaines, IL, USA</td>
<td>Pellet durability tester</td>
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<tr>
<td>Hammer mill</td>
<td>Bliss Industries</td>
<td>CME ECO-HC6</td>
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<tr>
<td>Grinder</td>
<td>Vermeer</td>
<td>HG200</td>
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<tr>
<td>Horizontal mixer</td>
<td>Colorado Mill Equipment, Canon City, CO, USA</td>
<td>ECO-RB 500</td>
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<tr>
<td>Blue grit utility cloth</td>
<td>3M</td>
<td>Part No.05107-150J grade</td>
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<tr>
<td>Insulation material</td>
<td>McMaster Carr</td>
<td>Flexible fiberglass insulation</td>
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<tr>
<td>Feeder controller</td>
<td>KB Electonics, INC</td>
<td>KBIC-DC-MTR direct current motor controller</td>
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<td>Dust exhaust system</td>
<td>Delta</td>
<td>Model No: 50-763, Serial No: 2010 1101415</td>
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<td>Vernier calipers</td>
<td>VWR® Digital Calipers</td>
<td>Part Number: 12777-830</td>
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<tr>
<td>Binder</td>
<td>ACH Food Companies Inc., Memphis, TN, USA</td>
<td>ARGO 100% pure corn starch</td>
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<tr>
<td>Corn stover</td>
<td>Harvested in Iowa and procured in bale form</td>
<td></td>
<td></td>
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</tbody>
</table>

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