APPENDIX B: ADDITIONAL REPRESENTATIONS OF ENVIRONMENTAL INDICATORS

In addition to the primary sustainability indicators calculated and presented in Part One of this report, the resource use per acre for Land Use, Irrigation Water Use, Energy Use, and Greenhouse Gas Emissions and the total resource use for Soil Conservation, Irrigation Water Use, Energy Use, and Greenhouse Gas Emissions were calculated. That information is provided here as a supplement to further explore trends in environmental sustainability for each crop.

Table B.1: List of Crops and Units of Production

<table>
<thead>
<tr>
<th>Crop</th>
<th>Yield Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARLEY</td>
<td>bu.</td>
<td>Bushel, 48 lb. of barley grain per bushel</td>
</tr>
<tr>
<td>CORN (GRAIN)</td>
<td>bu.</td>
<td>Bushel, 56 lb. of corn grain per bushel</td>
</tr>
<tr>
<td>CORN (SILAGE)</td>
<td>ton</td>
<td>2,000 lb.</td>
</tr>
<tr>
<td>COTTON</td>
<td>lb. of lint</td>
<td>Pounds (lb.) of lint</td>
</tr>
<tr>
<td>PEANUTS</td>
<td>lb.</td>
<td>Pounds (lb.)</td>
</tr>
<tr>
<td>POTATOES</td>
<td>cwt.</td>
<td>Hundred weight (100 lb.)</td>
</tr>
<tr>
<td>RICE</td>
<td>cwt.</td>
<td>Hundred weight (100 lb.)</td>
</tr>
<tr>
<td>SOYBEANS</td>
<td>bu.</td>
<td>Bushel, 60 lb. of soybean seed per bushel</td>
</tr>
<tr>
<td>SUGAR BEETS</td>
<td>ton</td>
<td>2,000 lb.</td>
</tr>
<tr>
<td>WHEAT</td>
<td>bu.</td>
<td>Bushel, 60 lb. of wheat grain per bushel</td>
</tr>
</tbody>
</table>
BARLEY

**Land Use: Bushels per Planted Acre**

**Irrigation Water Use: Acre-inches per Acre**

**Energy Use: BTU per Acre**

**Greenhouse Gas Emissions: Pounds CO\(_2\)e per Acre**

**Soil Conservation: Million Tons of Soil Loss**

**Irrigation Water Use: Millions of Acre-inches Applied**

**Energy Use: Billion BTU**

**Greenhouse Gas Emissions: Million Pounds CO\(_2\)e**
CORN FOR GRAIN

Land Use: Bushels per Planted Acre

Irrigation Water Use: Acre-inches per Acre

Energy Use: BTU per Acre

Greenhouse Gas Emissions: Pounds CO₂e per Acre

Soil Conservation: Million Tons of Soil Loss

Irrigation Water Use: Millions of Acre-inches Applied

Energy Use: Billion BTU

Greenhouse Gas Emissions: Million Pounds CO₂e
CORN FOR SILAGE

**Land Use: Tons per Planted Acre**

**Irrigation Water Use: Acre-inches per Acre**

**Energy Use: BTU per Acre**

**Greenhouse Gas Emissions: Pounds CO\(_2\)e per Acre**

**Soil Conservation: Million Tons of Soil Loss**

**Irrigation Water Use: Millions of Acre-inches Applied**

**Energy Use: Billion BTU**

**Greenhouse Gas Emissions: Million Pounds CO\(_2\)e**
PEANUTS

Land Use: Pounds per Planted Acre

Irrigation Water Use: Acre-inches per Acre

Energy Use: BTU per Acre

Greenhouse Gas Emissions: Pounds CO$_2$e per Acre

Soil Conservation: Million Tons of Soil Loss

Irrigation Water Use: Millions of Acre-inches Applied

Energy Use: Billion BTU

Greenhouse Gas Emissions: Million Pounds CO$_2$e
POTATOES

Land Use: Cwt. per Planted Acre

Irrigation Water Use: Acre-inches per Acre

Energy Use: BTU per Acre

Greenhouse Gas Emissions: Pounds CO$_2$e per Acre

Soil Conservation: Million Tons of Soil Loss

Irrigation Water Use: Millions of Acre-inches Applied

Energy Use: Billion BTU

Greenhouse Gas Emissions: Million Pounds CO$_2$e
RICE

**Land Use: Cwt. per Planted Acre**

**Irrigation Water Use: Acre-inches per Acre**

**Energy Use: BTU per Acre**

**Greenhouse Gas Emissions: Pounds CO\textsubscript{2}e per Acre**

**Soil Conservation: Million Tons of Soil Loss**

**Irrigation Water Use: Millions of Acre-inches Applied**

**Energy Use: Billion BTU**

**Greenhouse Gas Emissions: Million Pounds CO\textsubscript{2}e**

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SOYBEANS

Land Use: Bushels per Planted Acre

Irrigation Water Use: Acre-inches per Acre

Energy Use: BTU per Acre

Greenhouse Gas Emissions: Pounds CO$_2$e per Acre

Soil Conservation: Million Tons of Soil Loss

Irrigation Water Use: Millions of Acre-inches Applied

Energy Use: Billion BTU

Greenhouse Gas Emissions: Million Pounds CO$_2$e
SUGAR BEETS

**Land Use: Tons per Planted Acre**

**Irrigation Water Use: Acre-inches per Acre**

**Energy Use: BTU per Acre**

**Greenhouse Gas Emissions: Pounds CO$_2$e per Acre**

**Soil Conservation: Million Tons of Soil Loss**

**Irrigation Water Use: Millions of Acre-inches Applied**

**Energy Use: Billion BTU**

**Greenhouse Gas Emissions: Million Pounds CO$_2$e**
WHEAT

- **Land Use: Bushels per Planted Acre**
- **Irrigation Water Use: Acre-inches per Acre**
- **Energy Use: BTU per Acre**
- **Greenhouse Gas Emissions: Pounds CO₂e per Acre**
- **Soil Conservation: Million Tons of Soil Loss**
- **Irrigation Water Use: Millions of Acre-inches Applied**
- **Energy Use: Billion BTU**
- **Greenhouse Gas Emissions: Million Pounds CO₂e**