AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop: \textit{Luffa} spp.  
Plot No. :  
Accession No. :  
Sowing Date:  
Name:  
Transplanting Date:  
Species:  
Location:  
Origin:  

**SEEDLING DATA**

<table>
<thead>
<tr>
<th>Luf01</th>
<th>Germination period (from sowing to 50% emergence)</th>
</tr>
</thead>
</table>
| Luf02  | Cotyledon color  
3 = Light green  
5 = Green  
7 = Dark green  
X = Mixture |  
| Luf03  | Length of cotyledon (mm) |  
| Luf04  | Width of cotyledon (mm) |  
| Luf05  | Cotyledon size  
3 = Small (below 2 cm)  
5 = Medium (2-4 cm)  
7 = Large (above 4 cm) |  

**VEGETATIVE DATA**

| Luf06  | Plant vigor  
3 = Weak  
5 = Medium  
7 = Strong  
X = Mixture |  
| Luf07  | Number of side shoots |  
| Luf08  | Stem shape  
1 = Round  
2 = Angular |  
| Luf09  | Main vine length (cm) |  

1
<table>
<thead>
<tr>
<th>Luf10</th>
<th>Main vine diameter (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
<tr>
<td>Luf11</td>
<td>Length of inter-node (cm)</td>
</tr>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
<tr>
<td>Luf12</td>
<td>Tendrils</td>
</tr>
<tr>
<td></td>
<td>0 = Absent       1 = Present</td>
</tr>
<tr>
<td>Luf13</td>
<td>Leaf color</td>
</tr>
<tr>
<td></td>
<td>3 = Light green   5 = Green   7 = Dark green</td>
</tr>
<tr>
<td>Luf14</td>
<td>Leaf pubescence density</td>
</tr>
<tr>
<td></td>
<td>0 = No hairs       3 = Sparse       5 = Intermediate   7 = Dense</td>
</tr>
<tr>
<td>Luf15</td>
<td>Leaf shape</td>
</tr>
<tr>
<td></td>
<td>1 = Ovate       2 = Orbicular   3 = Reniform       4 = Retuse</td>
</tr>
<tr>
<td>Luf16</td>
<td>Leaf lobes</td>
</tr>
<tr>
<td></td>
<td>0 = Absent       3 = Shallow   5 = Intermediate   7 = Deep</td>
</tr>
<tr>
<td></td>
<td>X = Mixture : _____</td>
</tr>
<tr>
<td>Luf17</td>
<td>Leaf margin</td>
</tr>
<tr>
<td></td>
<td>1 = Entire       2 = Dented</td>
</tr>
<tr>
<td>Luf18</td>
<td>Length of petiole (cm)</td>
</tr>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
<tr>
<td>Luf19</td>
<td>Leaf length (cm)</td>
</tr>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
<tr>
<td>Luf20</td>
<td>Leaf width (cm)</td>
</tr>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
</tbody>
</table>

**INFLORESCENCE DATA**

<table>
<thead>
<tr>
<th>Luf21</th>
<th>Days to first male flower</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
<tr>
<td>Luf22</td>
<td>Days to first female flower</td>
</tr>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
<tr>
<td>Luf23</td>
<td>Node number of first female flower</td>
</tr>
<tr>
<td></td>
<td>_____ _____ _____ _____</td>
</tr>
</tbody>
</table>
Luf24  Time of flowering
1 = Morning  2 = Dusk

Luf25  Sex type
1 = Monoecious  2 = Gynomonoecious
3 = Andromonoecious  4 = Hermaphroditic
5 = Androecious  6 = Gynoecious
7 = Dioecious  8 = Male sterile
9 = Female sterile

Luf26  Flower color
1 = White  3 = Light yellow  5 = Yellow  7 = Orange
9 = Other:  X = Mixture: _______

Luf27  Ovary shape
1 = Slender  2 = Elliptic  3 = Global
4 = Elongated  5 = Oblong

Luf28  Ovary color
1 = Light green  2 = Green  3 = Dark green

Luf29  Ovary length (cm)

Luf30  Ovary diameter (cm)

FRUIT DATA

Luf31  Fruit set
3 = Poor  5 = Medium  7 = Good

Luf32  Days to harvesting at commercial stage

Luf33  Fruit shape
1 = Oblong blocky  2 = Elongate slim  3 = Elliptical
4 = Pryiform  5 = Elongate tapered  6 = Elongate elliptical
X = Mixture: _______

Luf34  Stem-end shape
1 = Depressed  3 = Flattened
5 = Rounded  7 = Pointed

Luf35  Blossom-end fruit shape
1 = Depressed  3 = Flattened
5 = Rounded  7 = Pointed

Luf36  Fruit surface
1 = Ridged  2 = Smooth  3 = Rough
<table>
<thead>
<tr>
<th>Luf37</th>
<th>Fruit skin color</th>
<th>1 = Light green</th>
<th>2 = Green</th>
<th>3 = Dark green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luf38</td>
<td>Fruit luster</td>
<td>1 = Matt</td>
<td>2 = Intermediate</td>
<td>3 = Glossy</td>
</tr>
<tr>
<td>Luf39</td>
<td>Pistil scar size</td>
<td>1 = Small</td>
<td>2 = Medium</td>
<td>3 = Large</td>
</tr>
<tr>
<td>Luf40</td>
<td>Length of peduncle (cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf41</td>
<td>Peduncle thickness (mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf42</td>
<td>Fruit weight (gm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf43</td>
<td>Fruit length at table use maturity (cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf44</td>
<td>Fruit width at table use maturity (cm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf45</td>
<td>Flesh thickness (mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf46</td>
<td>Flesh texture</td>
<td>1 = Smooth (firm)</td>
<td>2 = Grainy (firm)</td>
<td>3 = Soft</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 = Fibrous</td>
<td>5 = Others</td>
<td></td>
</tr>
<tr>
<td>Luf47</td>
<td>Fruit storage ability</td>
<td>3 = Low</td>
<td>5 = Intermediate</td>
<td>7 = High</td>
</tr>
<tr>
<td>SEED DATA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf48</td>
<td>Number of seeds per fruit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf49</td>
<td>Seed color</td>
<td>1 = White</td>
<td>2 = Yellowish white</td>
<td>3 = Brown</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 = Grey</td>
<td>5 = Black</td>
<td>6 = Other:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X = Mixture:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luf50</td>
<td>Seed surface luster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 = Dull</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 = Intermediate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 = Glossy</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Luf51</th>
<th>100 seeds weight (gm)</th>
</tr>
</thead>
</table>