AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop: \textit{Solanum} spp. (Tomato)
Plot No.: \hspace{2cm} Accession No.: \\
Sowing Date: \hspace{2cm} Name: \\
Transplanting Date: \hspace{2cm} Species: \\
Location: \hspace{2cm} Origin: \\

\textbf{SEEDLING DATA}

\begin{itemize}
\item \textbf{L060} Germination period (発芽所需日數)
\begin{itemize}
\item (no. of days from sowing until first germination)
\end{itemize}
\item \textbf{L070} Anthocyanin coloration of hypocotyl (胚莖色)
\begin{itemize}
\item (when the seedling primary leaves are fully opened and the terminal bud is around 5 mm)
\item 0 = Absent  \hspace{0.5cm} 1 = Present \hspace{0.5cm} X = Mixture
\end{itemize}
\item \textbf{L120} Stem pubescence (莖絨毛)
\begin{itemize}
\item 0 = Absent  \hspace{0.5cm} 3 = Weak \hspace{0.5cm} 5 = Medium \hspace{0.5cm} 7 = Strong
\end{itemize}
\item \textbf{L080} Primary leaf length (cm) (N=10) (子葉長)
\item \textbf{L100} Primary leaf width (cm) (N=10) (子葉寬)
\end{itemize}

\textbf{VEGETATIVE DATA}

\begin{itemize}
\item \textbf{L090} Growth habit (when the fruits of first truss ripen) (生長勢)
\begin{itemize}
\item 1 = Dwarf \hspace{0.5cm} 2 = Determinate \hspace{0.5cm} 3 = Semi-determinate \hspace{0.5cm} 4 = Indeterminate
\item X = Mixture
\end{itemize}
\item \textbf{L130} Number of leaves under first inflorescence (N=5) (第一花序下之葉數)
\item \textbf{L150} Leaf attitude (葉態)
\begin{itemize}
\item 3 = Semi-erect \hspace{0.5cm} 5 = Horizontal \hspace{0.5cm} 7 = Drooping \hspace{0.5cm} X = Mixture
\end{itemize}

Leaf type (葉型)

1 = Dwarf   2 = Potato leaf type   3 = Standard   4 = Peruvianum
5 = Pimpinellifolium   6 = Hirsutum   7 = Other (specify) _______

Degree of leaf dissection (整體葉型密度)

3 = Slight   5 = Medium   7 = High   X = Mixture

Anthocyanin coloration of leaf veins (葉脈花青素)

0 = Absent   1 = Present   X = Mixture

INFLORESCENCE DATA

Flowering date (date when 50% of plants have the most flowers) ____________ (開花日期)

Days to flower (開花日數)
(no. of days from sowing until 50% of plants have the most flowers)

Number of flower per inflorescence (N=5) (每花序花朵數)

Inflorescence type (花序型態)
(information should be taken from the 2nd and 3rd truss)
1 = Generally uniparous   2 = Generally multiparous   3 = Both

Petal length (cm) (N=5) (花瓣長)

Sepal length (cm) (N=5) (萼片長)

Style type (柱頭型態)
1 = Inserted   3 = Same level as stamen   5 = Slightly exerted
7 = Highly exerted   X = Mixture
L300 Stamen length (cm) (N=5) (雄蕊長)

FRUIT DATA

First harvest date (第一次採收日期)
Last harvest date (最後一次採收日期)
Fruiting date (date when 50% of plants have mature fruits) (結果天數)

L610 Days to fruit (結果日數)
(no. of days from sowing until 50% of plants have the most fruits)

L320 Fruit size variation within a plant (果實大小變異)
1 = Uniform 3 = Slight 5 = Medium 7 = High

L330 Predominant fruit shape (after the fruits turn color) (果型)
1 = Flattened 2 = Slightly flattened 3 = Round 4 = High-round
5 = Heartshaped 6 = Lengthened cylindrical 7 = Pearshaped
8 = Plumshaped X = Mixture

L340 Exterior color of immature fruit (未成熟果色)
3 = Light 5 = Medium 7 = Dark 9 = Very dark X = Mixture

L350 Intensity of greenback (綠肩膀之深淺)
0 = None 3 = Slight 5 = Medium 7 = Strong X = Mixture

L400 Presence of jointless pedicel (無離層果梗)
0 = Absent 1 = Present X = Mixture

L410 Ribbing at calyx end (果面稜起紋程度)
0 = Absent 3 = Slight 5 = Medium 7 = Strong X = Mixture

L430 Firmness (果實硬度)
3 = Soft 5 = Medium 7 = Firm X = Mixture
L440  Radial cracking (environmental dependent) (放射狀龜裂)
        0 = None  1 = Corky lines  3 = Slight  5 = Medium  7 = Severe
        X = Mixture

L450  Concentric cracking (environmental dependent) (同心圓皸裂)
        0 = None  2 = Corky lines  3 = Slight  5 = Medium  7 = Severe
        X = Mixture

L460  Fruit fasciation (果實帶狀化)
        1 = Smooth  3 = Slight  5 = Medium  7 = Severe  X = Mixture

L470  Number of fruit set per inflorescence (N=10; the 2nd truss) (每花序著果數)

L480  Fruit weight (gm) (N=10) (果重)

L490  Fruit length (cm) (N=10) (果長)

L500  Fruit width (cm) (N=10) (果寬)

L520  Exterior color of mature fruit (果色)
        1 = Green  2 = Yellow  3 = Orange  4 = Red
        5 = Pink  6 = Orange-red  7 = Orange-yellow  X = Mixture

L740  Pedicel length (mm) (N=10; measured from abscission layer to calyx) (果梗長)

L750  Pedicel area (側視果蒂區之凹陷程度)
        1 = Flat  3 = Slightly depressed  5 = Moderately depressed
        7 = Strongly depressed  X = Mixture

L760  Size of pedicel scar width (mm) (N=10) (果蒂寬)

L770  Size of corky area around pedicel scar (mm) (N=10) (果蒂木栓區大小)

L780  Shape of pistil scar (果頂部之雌蕊疤形)
        1 = Dot  2 = Stellate  3 = Linear  4 = Irregular  X = Mixture
**L790** Blossom end shape (果頂部形狀)
1 = Indented  2 = Flat  3 = Pointed  X = Mixture

**L800** Blossom end scar condition (果頂痕是否開放情況)
1 = Open   2 = Closed   3 = Both

**L370** Interior flesh color (pericarp) (成熟果肉色)
1 = Green   2 = Yellow   3 = Orange   4 = Red   5 = Pink
6 = Other (specify) 7 = Orange-red  X = Mixture

**L380** Interior flesh color intensity (果肉色深淺)
3 = Light   5 = Medium   7 = Dark   X = Mixture

**L390** Transverse section (果橫切面)
1 = Round   2 = Angular   3 = Irregular   X = Mixture

**L510** Thickness of fruit wall (mm) (N=10) (果壁厚)

**L530** Vascular bundle content (維管束含量)
3 = Slight   5 = Medium   7 = Severe   X = Mixture

**L700** Color of core (果核色)
0 = Green   1 = White   3 = Light   5 = Medium   7 = Dark   X = Mixture

**L710** Number of locules (N=10) (心室數)

**L720** Thickness of pericarp (mm) (N=10) (心皮厚度)

**L730** Size of core (mm) (N=10; in cross-section) (果核大小)

**L810** Puffiness (果實橫切後腔室之空洞度)
0 = Absent   3 = Slight   5 = Medium   7 = Severe   X = Mixture
<table>
<thead>
<tr>
<th>L950</th>
<th>Length of pedicel scar (mm) (N=10) (果蒂痕長)</th>
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<tr>
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<td>L360</td>
<td>Skin color of ripen fruit (observe the peeled fruit skin) (成熟果皮色)</td>
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<td>1 = Colorless  2 = Yellow  X = Mixture</td>
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<td>L820</td>
<td>Easiness of peeling (剝皮難易)</td>
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<td>3 = Poor  5 = Fair  7 = Good  X = Mixture</td>
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<td>L880</td>
<td>Soluble solids (%) (糖度)</td>
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