

| Plant | | Cuphea | | 481 | Primary essential character | |
|-------|----------------|----------------|-------------|---|-----------------------------|---|
| No | Characters | No. of samples | Methods | Rank or measurement unit | | Remarks |
| 1 | Plant type | Block | Observation | 1:Less branching 9:Bushy | | Height of main stem and branches, and number of branches at maturity |
| 2 | Plant height | 10 plants | Measurement | cm (integer) | | Length of plant from base to top at maturity |
| 3 | Inflorescence | Block | Observation | 1:Leafy raceme 9:Separated | | Raceme that is well separated from the vegetative parts or not |
| 4 | Flowering date | Block | Observation | date | | Date that 50% of plants have flowered |
| 5 | Maturing date | Block | Observation | date | | Date that 90% of plants have dark blown colored seeds on their lower blanches |
| 6 | Seed color | Block | Observation | 3:Green 4:Greenish blown 5:Blown 6:Dark blown 7:Black | | Color of mature seed |

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|-------|-----------------------------|----------------|-------------|--|----------------------------|---|
| No | Characters | No. of samples | Methods | Rank or measurement unit | | Remarks |
| 1 | Corolla | Block | Observation | 3:Light purple 4:Purple 5:Reddish purple 6:Dark red | | Color of corolla |
| 2 | Number of petals | Block | Observation | 0:No petal 9:Number of petals | | Number of petals |
| 3 | Glandular trichome | Block | Observation | 0:No trichome 9:Dense trichome | | Density of glandular trichome on stem |
| 4 | Number of seeds per capsule | 10 capsules | Measurement | seeds (integer) | | Count the seeds of the capsule on one half of the stem and branches before shattering |

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| 1 | Lodging resistance at maturity | Block | Observation | 1:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 9:Very high | Degree of stem lodging at maturity |
| 2 | Lodging resistance | Block | Observation | 1:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 9:Very high | Degree of lodging shown in canopy |

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|-------|----------------------------------|----------------|-------------|--|---|
| No | Characters | No. of samples | Methods | Rank or measurement unit | Remarks |
| 1 | Seed dormancy | 100 seeds | Measurement | 1:No dormancy 3:Light dormancy 5:Intermediate 7:Deep dormancy | Test germinability of mature seeds in six months after harvesting |
| 2 | Germinability at low temperature | 100 seeds | Measurement | 3:Easy 4:Slightly easy 5:Intermediate 6:Slightly high 7:High | Test germinability of mature seeds at several low temperatures |
| 3 | Shattering | Block | Observation | 3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard | Degree of shattering at maturity |

| Plant | | Cuphea | | 481 | Tertiary essential character | |
|-------|---|----------------|-------------|---------------------------------------|------------------------------|--|
| No | Characters | No. of samples | Methods | Rank or measurement unit | | Remarks |
| 1 | Yield | Block | Measurement | kg/a (round to the 2nd decimal place) | | Seed weight in plotted area after fine processing and drying |
| 2 | 1000 seed weight | 1000 grains | Measurement | g (round to the 1st decimal place) | | Weight of 1000 seeds after air drying |
| 3 | Oil content | | Measurement | % (round to the 1st decimal place) | | Measured by Soxhlet method |
| 4 | Fatty acid composition (Caprylic acid) | | Measurement | % (round to the 1st decimal place) | | Content of Caprylic acid in extracted oil measured by Gas chromatography |
| 5 | Fatty acid composition (Capric acid) | | Measurement | % (round to the 1st decimal place) | | Content of Capric acid in extracted oil measured by Gas chromatography |
| 6 | Fatty acid composition (Lauric acid) | | Measurement | % (round to the 1st decimal place) | | Content of Lauric acid in extracted oil measured by Gas chromatography |
| 7 | Fatty acid composition (Myristic acid) | | Measurement | % (round to the 1st decimal place) | | Content of Myristic acid in extracted oil measured by Gas chromatography |