Table S3. Formula used for estimating geometrical properties of onion bulbs

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| Geometrical trait | Formula | Reference |
| Aspect ratio (Ra) |  | (Gautam 2021) |
| Shape index (SHI) |  | (Gautam 2021; Kaveri & Thirupathi 2015) |
| Sphericity (STY) |  | (Gautam 2021; Kaveri & Thirupathi 2015) |
| Geometric mean diameter (Dgm) |  | (Gautam 2021; Kaveri & Thirupathi 2015) |
| Arithmetic mean diameter (Dam) |  | (Gautam 2021; Kaveri & Thirupathi 2015) |
| Surface area (Sa) |  | (Gautam 2021) |
| Frontal surface area |  | (Gautam 2021; Kaveri & Thirupathi 2015) |
| Cross sectional area |  | (Gautam 2021; Kaveri & Thirupathi 2015) |

PD: Polar diameter, ED: Equatorial diameter, T: Transverse diameter or bulb thickness