

Yield Performance and Key Characteristics of World Vegetable Center-Selected Amaranth Lines

| Purpose & Vegetable introduction no. | Days to inflorescence ¹ | Plant type | Plant height (cm) | No. of branches ² | Leaf | | | | Stem color | Flower color | Seed color | Yield (t/ha) ⁴ | |
|--------------------------------------|------------------------------------|------------|-------------------|------------------------------|-----------------------|-------------------|-------|---------|------------|--------------|---------------------|---------------------------|---------|
| | | | | | shape | size ³ | color | surface | | | | Leaves | Grains |
| Vegetable | | | | | | | | | | | | | |
| AVAM1601 | 50.8 | Erect | 148 | 9.9 | Lanceolate-elliptical | Large | Green | Smooth | Green | Green | Creamy | 12.0-20.7 | 1.1-3.2 |
| AVAM1602 | 61 | Erect | 207 | 13.1 | Lanceolate-elliptical | Large | Green | Smooth | Green | Green | Creamy | 14.4-19.7 | 1.1-2.1 |
| Vegetable & grain | | | | | | | | | | | | | |
| AVAM1603 | 41.8 | Erect | 170 | 9.8 | Lanceolate-elliptical | Large | Green | Smooth | Green | Green | Creamy | 12.6-17.4 | 1.6-3.6 |
| AVAM1604 | 42.8 | Erect | 152 | 8.5 | Ovate | Large | Green | Smooth | Green | Green | Creamy | 11.8-15.1 | 1.5-4.2 |
| AVAM1605 | 42.7 | Erect | 166 | 8.3 | Ovate | Large | Green | Smooth | Green | Green | Brown-creamy yellow | 12.8-15.9 | 1.2-4.1 |
| Grain | | | | | | | | | | | | | |
| AVAM1606 | 54.7 | Erect | 222 | 13.1 | Long ovoid | Large | Green | Smooth | Purple | Purple-red | Whitish-creamy | 9.5-22.1 | 1.5-5.5 |
| AVAM1607 | 51.5 | Erect | 207 | 9.9 | Long ovoid | Large | Green | Smooth | Purple | Purple-red | Whitish-creamy | 9.0-14.7 | 1.2-5.1 |

¹Days to inflorescence: average data measured during rainy and dry-cold seasons in 2012

²No. of branches: average data measured during rainy season in 2013-2014

³Leaf size: small (leaf length <5 cm), medium (5-10 cm), large (> 10 cm)

⁴Average quantitative yield data measured during rainy and dry-cold seasons in 2012-2014 at Arusha, Regional Center for Eastern and Southern Africa, Tanzania