



Mahatma Phule Krishi Vidyapeeth, Rahuri
Information about Crop wise Improved / Hybrid Varieties Developed by University

Improved / Hybrid Varieties: Nutritional Food Grains

Grain Amaranthus - Phule Kartiki



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| | Release year | 2010 |
| | Name of Institute / University | Mahatma Phule Krishi Vidyapeeth, Rahuri |
| | Soil type | Well drained and Medium to black soil |
| | Climate | Bright sun shine and warm weather |
| Sowing Time / Planting period | Kharif - 15 th June to 30 th June Rabi - 15 th October to 15 th November | |
| Seed Rate (Per acre) | 750 gm -1.00 kg | |
| Crop duration | 110-120 days | |
| Productivity | Kharif season: 10-12 qt./ha, Rabi season: 14-16 qt./ha | |
| Characters / features | The popping ability is good, contains 13.80 % protein, The inflorescences are yellowish green colour, straight, smooth and intermediate, Seed colour is pale yellow. | |
| Remarks | The grain yield of “Phule Kartiki” in <i>rabi</i> season is 1600 kg/ha | |

Finger millet - Phule Nachani




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| | Release year | 2014 |
| | Name of Institute / University | Zonal Agricultural Research Station, Shenda Park, Kolhapur |
| | Soil type | Light soil to medium type |
| | Climate | Temperature Max 25 ⁰ C, Minimum 15 ⁰ C |
| Sowing Time / Planting period | Sowing : Line sowing Season : <i>Kharif</i> | |
| Seed Rate (Per acre) | 1 kg per acre | |
| Crop duration | Duration : 110-120 days | |
| Productivity | 20-22 q ha ⁻¹ | |
| Characters / features | Higher grain yield (25.04 q ha-1) i.e. 23.00% more grain, yield than national check PR 202 (20.32 q ha-1), Late maturity group (115-120 days), Resistant to neck blast and leaf blast, Flag leaf angle curved at tip, Brown grain colour, Plant habit erect, dark green leaf colour, no pigmentation and semi drooping leaf angle | |
| Remarks | Finger millet variety Phule Nachani recommended for cultivation in Sub montane and Ghat zone of Maharashtra State. | |




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Little millet (Vari) - Phule Ekadashi

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|  | Release year | 2018 |
| | Name of Institute / University | Zonal Agricultural Research Station, Shenda Park, Kolhapur |
| | Soil type | Light soil to medium type |
| | Climate | Temperature Max 25 ⁰ C, Minimum 15 ⁰ C |
| Sowing Time / Planting period | Sowing : Line sowing Season : <i>Kharif</i> | |
| Seed Rate (Per acre) | 1 kg per acre | |
| Crop duration | Duration : 120-130 days | |
| Productivity | 10-15 q ha ⁻¹ | |
| Characters / features | Higher grain yield (12.62 q ha-1) i.e. 26.45% increase over national check OLM 203 (9.98 q ha-1), Late duration (120-130 days maturity), Mid dwarf plant type, Drooping panicle type, long length with complete panicle exertion, Brown shiny seed colour, Stem thick, dark green colour remain green till maturity | |
| Remarks | The little millet variety Phule <i>Ekadashi</i> recommended for cultivation in Sub montane and Ghat zone of Maharashtra State | |


Barnyard millet - Phule Barti-1

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|  | Release year | 2018 |
| | Name of Institute / University | Zonal Agricultural Research Station, Shenda Park, Kolhapur |
| | Soil type | Light soil to medium type |
| | Climate | Temperature Max 25 ⁰ C, Minimum 15 ⁰ C |
| Sowing Time / Planting period | Season : <i>Kharif</i> | |
| Seed Rate (Per acre) | 1 kg per acre | |
| Crop duration | Duration : 95-105 days | |
| Productivity | 15-20 q ha ⁻¹ | |
| Characters / features | Higher grain yield (17.81 q ha-1) i.e. 34.20% increase over national check VL 172 (13.27 q ha-1), High iron (65 ppm), Calcium (452.5 ppm) and Phosphorus (3110 ppm), Matures in 95-105 days, Mid dwarf plant type, Thick panicle type, long length, twisted type of fingers, Shiny grey seed colour | |
| Remarks | High calcium content Phule Barti-1 (KOPBM 46) recommended for cultivation in barnyard millet growing areas of Maharashtra State | |



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Finger millet - Phule Kasari

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|  | Release year | 2019 |
| | Name of Institute / University | Zonal Agricultural Research Station, Shenda Park, Kolhapur |
| | Soil type | Light soil to medium type |
| | Climate | Temperature Max 25 ⁰ C, Minimum 15 ⁰ C |
| Sowing Time / Planting period | Sowing : Line sowing Season : <i>Kharif</i> | |
| Seed Rate (Per acre) | 1 kg per acre | |
| Crop duration | Duration : 100-110 days | |
| Productivity | 18-20 q ha ⁻¹ | |
| Characters / features | Dwarf, Non lodging, high tillers, Thick open panicle, long finger length. Brown seed colour . Highly Resistant to finger blast, neck blast and resistant to node blast. | |
| Remarks | Finger millet variety Phule Kasari recommended for cultivation in Sub montane and Ghat zone of Maharashtra State. | |