



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Improved / Hybrid Varieties of Bajra

Shradha (RHRBH 8609) (Hybrid)



| | | |
|------------------------------|--|---|
| | Release year | 1990 (State Release) |
| | Name of Institute / University | MPKV, Rahuri |
| | Soil type | lighter to medium |
| | Climate | Bajra growing areas of the scarcity zone of Maharashtra State in kharif season. |
| | Sowing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | 1.5 kg | |
| Crop duration | 70 to 75 days (early maturity) | |
| Productivity | 25 to 27 q/ha | |
| Characters / features | Early maturity hybrid, Bold and gary colour seed, Compact earhed, Bristles on earhead hence less affected by birds, Resistant to downy mildew disease. | |

Saburi (RHRBH 8924) (Hybrid)



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|------------------------------|---------------------------------------|--|
| | Release year | 1995 |
| | Name of Institute / University | MPKV, Rahuri |
| | Soil type | Lighter to medium |
| | Climate | |
| | Sowing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | 1.5 kg | |
| Crop duration | 76 to 80 days | |
| Productivity | 28 to 30 q/ha | |
| Characters / features | | |



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Hybrid Shanti (RHRBH 9808)



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|---------------------------------------|--|
| Release year | 2006 (National Release) |
| Name of Institute / University | MPKV, Rahuri |
| Soil type | lighter to medium |
| Climate | Western Maharashtra under kharif rainfed situation. |
| Soing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | 1.5 kg |
| Crop duration | 80 to 85 days (medium maturity) |
| Productivity | 30 to 31 q/ha |
| Characters / features | Medium maturity hybrid, Mid-tall shorter than shradhha & Saburi, Bold grain with good colour, Good bread quality, National Level Release |

Variety Dhanshakti ICTP 8203 10-2 Fe)



| | |
|---------------------------------------|--|
| Release year | 2012 |
| Name of Institute / University | Bajra Research Station, Dhule & ICRISAT, Patancheru, Telangana |
| Soil type | light to medium |
| Climate | Bajra growing area of India under kharif rainfed situation. |
| Sowing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | 1.5 kg |
| Crop duration | 74 to 78 days (early maturity) |
| Productivity | 22 q/ha |
| Characters / features | High Fe content (81 ppm), Early maturing variety, Bold globular grain with gray colour, Tolerant to downy mildew disease, Specifically suitable for drought prone environments, State & National Release |



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Hybrid Phule Aadishakti (DHBH 9071)



| | | |
|------------------------------|---------------------------------------|---|
| | Release year | 2015 |
| | Name of Institute / University | Bajra Research Station, Dhule |
| | Soil type | light to medium |
| | Climate | Bajra growing area of Maharashtra under kharif rainfed situation. |
| | Sowing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | | 1.5 kg |
| Crop duration | | 80 to 85 days (medium maturity)) |
| Productivity | | 32-34 q/ha |
| Characters / features | | Resistant to downy mildew disease, Bold globular grain with gray colour, Beneficial to seed producer due to high yielding female, Good bread quality, State Release |

Hybrid Phule Mahashakti (DHBH 1211)



| | | |
|------------------------------|---------------------------------------|---|
| | Release year | 2017 (State Release) |
| | Name of Institute / University | Bajra Research Station, Dhule & ICRISAT, Patancheru, Telangana |
| | Soil type | light to medium |
| | Climate | Bajra growing area of Maharashtra under kharif rainfed situation. |
| | Sowing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | | 1.5 kg |
| Crop duration | | 85 to 90 days |
| Productivity | | 29-30 q/ha |
| Characters / features | | High Fe content (87 ppm), Very compact earhead, bold globular grain with gray colour, Tolerant to downy mildew disease. |



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MH 2114 (DHBH 1397)



| | | |
|------------------------------|---------------------------------------|---|
| | Release year | 2018 (National Release) |
| | Name of Institute / University | Bajra Research Station, Dhule |
| | Soil type | light to medium |
| | Climate | Bajra growing area of India A zone (rainfall below 400mm) Rajasthan, Haryana, Punjab,UP, MP, Delhi and Gujrat under kharif rainfed situation. |
| | Sowing Time / Planting period | 15 th June to 15 th July |
| Seed Rate (Per acre) | | 1.5 kg |
| Crop duration | | 78 to 80 days |
| Productivity | | 34-35 q/ha |
| Characters / features | | Medium maturing hybrid, Long compact earhead, bold globular grain with gray colour, Resistant to downy mildew disease. |



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Improved / Hybrid Varieties of Paddy

Radhanagari 185-2



| | |
|---------------------------------------|--|
| Release year | 1974 |
| Name of Institute / University | Agricultural Research Station, Radhanagari, Dist. Kolhapur |
| Soil type | Light to Medium |
| Climate | Warm and Humid, Rainfall more than 800 mm |
| Sowing Time / Planting period | May 15 – June 15 The crop should be Transplanted 20 to 24 days after sowing |
| Seed Rate (Per acre) | Transplanting Method – 15 – 18 kg / Acre Dibbling Method – 20 – 25 kg / Acre Drilling Method - 35 – 40 kg / Acre |
| Crop duration | 105 to 110 days |
| Productivity | 35 to 40 qt./ha. |
| Characters / features | A. Dwarf, Early duration B. Short Bold grain, Non-Scented C. Broad leaves |
| Remark | Released for cultivation in western Maharashtra. Popular for puffed and parched rice. |

Darna



| | |
|---------------------------------------|---|
| Release year | 1980 |
| Name of Institute / University | Zonal Agriculture Research Station, Igatpuri Dist. Nasik |
| Soil type | Lite to Medium |
| Climate | Warm and Humid |
| Sowing Time / Planting period | June-July |
| Seed Rate (Per acre) | 12-15 Kg./Acre |
| Crop duration | 130 to 135 Days |
| Productivity | 35 to 40 qt./ha. |
| Characters / features | Long Slender grain , Non-Scented, Suitable for very light soil, Resistant to BLB, Resistant to Stem borer |



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Indrayani



| | | |
|--------------------------------------|---|---|
| | Release year | 1987 |
| | Name of Institute / University | Agricultural Research Station, Vadgaon Maval, Dist. Pune |
| | Soil type | Light to medium |
| | Climate | Tropical and warm climate. Rainfall 800 mm and above. Temperature 25 to 35 °C and humidity more than 65-70%.- |
| Sowing Time / Planting period | Nursery- June Transplanting- July | |
| Seed Rate (Per acre) | Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre | |
| Crop duration | 135-140 days | |
| Productivity | 40-45 qt./ha. | |
| Characters / features | A. Long slender, scented, translucent, midlate. B. Moderately resistant to blast and blight. | |

Kundalika




| | | |
|--------------------------------------|--|---|
| | Release year | 1988 |
| | Name of Institute / University | Agricultural Research Station, Vadgaon Maval, Dist. Pune |
| | Soil type | Light to medium |
| | Climate | Tropical and warm climate. Rainfall of 800 mm and above. Temperature of 25 to 35 °C and humidity more than 65-70%.- |
| Sowing Time / Planting period | Nursery- June Transplanting- July | |
| Seed Rate (Per acre) | Transplanted Paddy- 8-10 kg./Acre Drilling - 20-25 kg./Acre | |
| Crop duration | 125-130 days | |
| Productivity | 30-35 qt./ha. | |
| Characters / features | A. Short slender, midlate variety, suitable for shallow soils B. Moderately resistant to blast. | |




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Pawana

| | | |
|---|--|--|
|  | Release year | 1988 |
| | Name of Institute / University | Agricultural Research Station, Vadgaon Maval, Dist. Pune |
| | Soil type | Light to medium |
| | Climate | Tropical and warm climate. Rainfall of 800 mm and above. Temperature 25 to 35 °C and humidity more than 65-70%.- |
| Sowing Time / Planting period | Nursery- June Transplanting- July | |
| Seed Rate (Per acre) | Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre | |
| Crop duration | 115-120 days | |
| Productivity | 35-40 qt./ha. | |
| Characters / features | A. Long slender, early variety having awns. B. Moderately resistant to blast. | |

Phule Maval

| | | |
|---|--|--|
|  | Release year | 2000 |
| | Name of Institute / University | Agricultural Research Station, Vadgaon Maval, Dist. Pune |
| | Soil type | Light to medium |
| | Climate | Tropical and warm climate. Rainfall of 800 mm and above. Temperature 25 to 35 °C and humidity more than 65-70%.- |
| Sowing Time / Planting period | Nursery- June Transplanting- July | |
| Seed Rate (Per acre) | Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre | |
| Crop duration | 125-130 days | |
| Productivity | 40-45 qt./ha. | |
| Characters / features | A. Long bold, midlate, translucent grain. B. Moderately resistant to blast and blight | |



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Phule Radha



| | |
|---------------------------------------|--|
| Release year | 2006 |
| Name of Institute / University | Agricultural Research Station, Radhanagari, Dist. Kolhapur |
| Soil type | Light to Medium |
| Climate | Warm and Humid, Rainfall more than 800 mm |
| Sowing Time / Planting period | Sowing time : May 15 – June 15 The crop should be Transplanted 20 to 24 days after sowing |
| Seed Rate (Per acre) | Transplanting Method – 12 – 15 kg / Acre Dibbling Method – 20 – 25 kg / Acre Drilling Method - 30 – 35 kg / Acre |
| Crop duration | 115 to 120 days |
| Productivity | 40 to 45 qt./ha |
| Characters / features | A. Medium Height, Early duration B. Short Slender grain, Non-Scented C. Broad leaves D. Moderately resistant to BLB |

Bhogavati



| | |
|---------------------------------------|---|
| Release year | 2006 |
| Name of Institute / University | Agricultural Research Station, Radhanagari, Dist. Kolhapur |
| Soil type | Light to Medium |
| Climate | Warm and Humid, Rainfall more than 800 mm |
| Sowing Time / Planting period | Sowing time : May 15 – June 15 The crop should be Transplanted 25 to 30 days after sowing |
| Seed Rate (Per acre) | Transplanting Method – 15 – 20 kg / Acre Dibbling Method – 25 – 30 kg / Acre Drilling Method - 35 – 40 kg / Acre |
| Crop duration | 135 to 140 days |
| Productivity | 45 to 50 qt / ha |
| Characters / features | A. Medium Height, Late duration B. Long Slender grain, Scented C. 3 to 5% grains with awns D. Moderately resistant to BLB E. Released for cultivation in Maharashtra state, Cooked rice Non-sticky. |



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Phule Samruddhi



| | |
|---------------------------------------|---|
| Release year | 2007 |
| Name of Institute / University | Agricultural Research Station, Vadgaon Maval, Dist. Pune |
| Soil type | Light to medium |
| Climate | Tropical and warm climate. It grows better in the rainfall of 800 mm and above. It requires temperature of 25 to 35°C and humidity more than 65-70%.- |
| Sowing Time / Planting period | Nursery- June Transplanting- July |
| Seed Rate (Per acre) | Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre |
| Crop duration | 125-130 days |
| Productivity | 45-50 qt./ha. |
| Characters / features | A. Long slender, scented, translucent, midlate variety. B. Moderately resistant to blast, blight and stem borer. |

Phule RDN – 6



| | |
|---------------------------------------|--|
| Release year | 2013 |
| Name of Institute / University | Agricultural Research Station, Radhanagari, Dist. Kolhapur |
| Soil type | Light to Medium |
| Climate | Warm and Humid, Rainfall more than 800 mm |
| Sowing Time / Planting period | Sowing time : May 15 – June 15 The crop should be Transplanted 23 to 27 days after sowing |
| Seed Rate (Per acre) | Transplanting Method – 15 – 20 kg / Acre Dibbling Method – 25 – 30 kg / Acre Drilling Method - 35 – 40 kg / Acre |
| Crop duration | 125 to 130 days |
| Productivity | 40 to 45 qt. / ha |
| Characters / features | A. Medium Height, Mid-Late duration B. Long Slender grain, Non-Scented C. Moderately resistant to BLB |



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Phule Kolam (VDN-1832)



| | |
|---------------------------------------|---|
| Release year | 2023 |
| Name of Institute / University | Agricultural Research Station, Vadgaon Maval, Dist. Pune |
| Soil type | Light to medium |
| Climate | Tropical and warm climate, rainfall of 800 mm and above, temperature of 25 ⁰ C to 35 ⁰ C and humidity more than 65%. |
| Sowing Time / Planting period | First week to last week of June |
| Seed Rate | 22 kg/ ha |
| Crop duration | Midlate maturity -125 to 130 days |
| Productivity | 48.78 qt./ha. |
| Characters / features | Short slender grain type, resistant to brown spot and stem borer, moderately resistant to the diseases leaf blast, sheath rot, neck blast, grain (glume) discoloration, higher milling (68.16 %) and Head Rice Recovery (63.97 %), excellent cooking quality [intermediate amylose content (23.7 %) and high gel consistency (75 mm)]. Release for Western Maharashtra in kharif season. |

Phule Super Pawana (IGP-13-12-19)




| | |
|---------------------------------------|---|
| Release year | 2023 |
| Name of Institute / University | Zonal Agricultural Research Station, Igatpuri |
| Soil type | Light to Medium |
| Climate | <i>Kharif</i> - Rice-growing areas of Western Maharashtra having assured rainfall |
| Sowing Time / Planting period | First week to last week of June |
| Seed Rate | 30 kg/ha |
| Crop duration | Midlate maturity -130 to 135 days |
| Productivity | 54.63 qt. / ha |
| Characters / features | It is awnless, mid late duration and long slender scented grain type, resistant to stem borer & Moderately resistant to Brown plant hoppers, high milling percentage (69.22 %) and head rice recovery (59.49 %), high in Iron (17.7 ppm) and Zinc (20.0 ppm) content, excellent cooking quality - Amylose content (20.90 %). Release for Western Maharashtra in kharif season. |



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Phule Maval-7 (VDN-1808)

| | | |
|---|---|---|
|  | Release year | 2024 |
| | Name of Institute / University | ARS, Vadgaon Maval |
| | Soil type | Light to Medium |
| | Climate | <i>Kharif</i> - Rice-growing areas of Western Maharashtra having assured rainfall |
| Sowing Time / Planting period | First week to last week of June | |
| Seed Rate | 30 kg/ha | |
| Crop duration | Late maturity -140 to 145 days | |
| Productivity | Yield 51.59 q ha ⁻¹ | |
| Characters / features | Long slender grain type, higher milling percentage (70.19 %) and head rice recovery (61.74 %), It has excellent cooking quality, low amylose content (18.4 %) and high gel consistency (63 mm), Non-lodging habit and non-shattering, Moderately resistant to diseases-neck blast, brown spot and grain discolouration, Moderately resistant to the pest -stem borer, | |
| Remark | Recommended for Western Maharashtra in <i>kharif</i> season. | |