



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Improved / Hybrid Varieties of Wheat

N-5439 [*Triticum aestivum*]



	Release year	1972
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium Soil
	Climate	Cool and dry
	Sowing Time / Planting period	Second Fortnight of October
Seed Rate (Per acre)	30 kg/Acre	
Crop duration	Early Maturity (110 days)	
Productivity	5 - 6 qt./Acre under rainfed condition	
Characters / features	1) Recommended for rainfed conditions of Peninsular Zone 2) Drought and heat tolerant 3) Excellent for <i>chapati</i> 4) Tolerant to aphids	
Remark	Suitable for Rainfed condition	

NI-5643 [*Triticum aestivum*]



	Release year	1973
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to Heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st Fortnight of November
Seed Rate (Per acre)	40 kg/Acre	
Crop duration	Medium Maturity (120-125 days)	
Productivity	10 - 12 qt./acre	
Characters / features	1) Recommended for timely sown irrigated conditions of Maharashtra State 2) Better <i>chapati</i> quality 3) Tolerant to aphids	
Remark	High yielding variety under timely sown irrigated condition	



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N-5749 [*Triticum durum*]



Release year	1975
Name of Institute / University	Agricultural Research Station, Niphad
Soil type	Medium Soil
Climate	Cool and dry
Sowing Time / Planting period	Second Fortnight of October
Seed Rate (Per acre)	30 kg/Acre
Crop duration	Early Maturity (110 days)
Productivity	4 - 5 qt./acre under rainfed conditions
Characters / features	1) Recommended for rainfed conditions of Maharashtra State 2) Non-waxy, tall type 3) Tolerant to aphids
Remark	High yielding variety under rainfed condition

Vinata [N-8223] [*Triticum aestivum*]




Release year	1985
Name of Institute / University	Agricultural Research Station, Niphad
Soil type	Medium Soil
Climate	Cool and dry
Sowing Time / Planting period	Second Fortnight of October
Seed Rate (Per acre)	30 kg/Acre
Crop duration	Early Maturity (110 days)
Productivity	5 - 6 qt./acre
Characters / features	1) Recommended for rainfed conditions of Maharashtra State 2) Erect type with broad leaves 3) Better <i>chapati</i> quality 4) Tolerant to aphids 5) Tolerant to rust
Remark	High yielding variety under rainfed condition




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Niphad (NIAW-34) [*Triticum aestivum*]

	Release year	1995
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st Fortnight of December
Seed Rate (Per acre)	50 kg/Acre	
Crop duration	Early Maturity (105-110 days)	
Productivity	14 - 16 qt./acre	
Characters / features	1) Recommended for late sown irrigated conditions of Peninsular Zone 2) Medium size grain 3) Tolerant to aphids 4) Resistant to Black and Brown rust 5) Protein content more than 13 %	
Remark	Best for <i>chapati</i> quality	

Kadava (NI-9947) [*Triticum aestivum*]


	Release year	1995
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1st fortnight of December
Seed Rate (Per acre)	50 kg	
Crop duration	Early Maturity (90-105 days)	
Productivity	10-12 quintals/ acre	
Characters / features	1) Recommended for late sown irrigated conditions of Maharashtra State 2) Better chapati quality 3) Tolerant to aphids, Resistant to Black and Brown rust 4) Protein content 13.8 %	
Remark	High yielding variety under late sown condition	




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Trambak (NIAW-301) [*Triticum aestivum*]

	Release year	2001
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st Fortnight of November
Seed Rate (Per acre)	40 kg/Acre	
Crop duration	Medium Maturity (110-115 days)	
Productivity	16 - 18 quintals/acre	
Characters / features	1) Recommended for irrigated timely sown conditions of Maharashtra State 2) Medium sized grains 3) Best <i>chapati</i> quality 4) Tolerant to aphids 5) Resistant to rust 6) Protein content 12 %	
Remark	Highly accepted by the farmers	

Panchavati [NIDW-15] [*Triticum durum*]


	Release year	2002
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	Second Fortnight of October
Seed Rate (Per acre)	30 kg/Acre	
Crop duration	Early Maturity (105 days)	
Productivity	5 - 6 qt./acre	
Characters / features	1) Recommended for rainfed conditions of Maharashtra State 2) Bold attractive shining grains 3) Best suitable for macaroni making 4) Tolerant to aphids 5) Resistant to rust	
Remark	Best durum variety under rainfed condition	




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Godavari [NIDW-295] [*Triticum durum*] (Processing Purpose)

	Release year	2005
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st Fortnight of November
Seed Rate (Per acre)	40 kg/Acre	
Crop duration	Medium Maturity (110-115 days)	
Productivity	18 - 20 qt./acre	
Characters / features	1) Recommended for irrigated timely sown conditions of Maharashtra State 2) Bold attractive shiny grains 3) Best suitable for macaroni making 4) Tolerant to aphids 5) Resistant to rust 6) Protein content 12 %	
Remark	Best durum variety for process industry.	

Tapovan [NIAW-917] [*Triticum aestivum*]

	Release year	2005
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st Fortnight of November
Seed Rate (Per acre)	40 kg/Acre	
Crop duration	Medium Maturity (110-115 days)	
Productivity	18 - 20 quintals/acre	
Characters / features	1) Recommended for irrigated timely sown conditions of Maharashtra State 2) Medium size grains 3) Best for <i>chapati</i> making 4) Tolerant to aphids 5) Resistant to rust 6) Protein content more than 12.5 %	
Remark	Best high yielding variety under timely sown irrigated condition	



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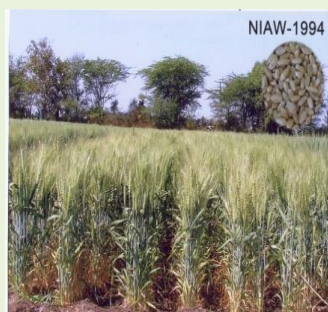
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Netravati [NIAW-1415] [*Triticum aestivum*]



	Release year	2010
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	Second Fortnight of October (Rainfed) First week of November (Restricted Irrigated)
Seed Rate (Per acre)	30 kg/Acre (Rainfed), 40 kg/Acre (Restricted Irrigated)	
Crop duration	105 - 110 days (Rainfed), 110 - 115 days (Restricted Irrigated)	
Productivity	6-8 qt./ acre (Rainfed), 10-12 qt./ acre (Rest. Irrigated)	
Characters / features	1) Recommended for rainfed and restricted irrigated conditions of Peninsular Zone 2) Medium size grains 3) Best for <i>chapati</i> making 4) Tolerant to aphids 5) Resistant to black and brown rust 6) Protein content more than 12 % 7) It has enriched with micronutrients like Iron (Fe) 48.4 ppm, Zinc (Zn) 33.4 ppm, Copper (Cu) 5.99 ppm, Manganese (Mn) 38.6 ppm	
Remark	This variety gives better yield under favorable conditions.	

Phule Samadhan [NIAW-1994] [*Triticum aestivum*]




	Release year	2014
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st fortnight of November (Timely) 1 st fortnight of December (Late)
Seed Rate (Per acre)	40 kg/Acre (Timely sown), 50 kg/Acre (Late sown)	
Crop duration	115-120 days (Timely sown), 105-110 days (Late sown)	
Productivity	18-20 qt./ Acre (Timely sown), 16-18 qt./ Acre (Late sown)	
Characters / features	1) Recommended for timely sown and late sown irrigated conditions of Maharashtra State. 2) Bold size grains 3) Best for <i>chapati</i> making 4) Tolerant to aphids 5) Highly Resistant to rust 6) Protein content more than 12 %	
Remark	Best high yielding variety widely accepted by farmers.	




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Phule Satwik (NIAW-3170)

	Release year	2020
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st fortnight of November
Seed Rate (Per acre)	40 kg/acre	
Crop duration	115-120 days	
Productivity	35-40 qt./ha. under restricted irrigated conditions	
Characters / features	Protein content 11-12 %, Softness of grain: 30-45 % (Very low), Bread quality score : 7.0 to 7.5, Gluten index: 80- 85 %, Chapati quality score: 7.0 to 7.5, Fe content: 30-40 ppm, Zn content: 30-35 ppm, resistant to rust	
Remark	Best for biscuit purpose, biscuit spread factor: > 10	

Phule Anupam (NIAW-3624)


	Release year	2021
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st fortnight of November
Seed Rate (Per acre)	40 kg/Acre	
Crop duration	105-110 days	
Productivity	30-35 qt./ ha. under one irrigation	
Characters / features	Protein content 11.4 %, attractive bold grains, resistant to rust, good for chapatti, resistant to water stress condition	
Remark	Recommended for cultivation in Maharashtra under timely sown restricted irrigation conditions	




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Wheat- NIAW 4028

	Release year	2024
	Name of Institute / University	Agricultural Research Station, Niphad
	Soil type	Medium to heavy Soil
	Climate	Cool and dry
	Sowing Time / Planting period	1 st fortnight of November (Timely)
Seed Rate	40 kg/acre	
Crop duration	106 days	
Productivity	High yield - 33.43 q ha ⁻¹ , potential yield- 46.8 q ha ⁻¹	
Characters / features	Resistance to brown rust and black rust, karnal bunt, powdery mildew, flag smut and blast disease, Resistance to shoot fly and wheat aphids, Grain Fe and Zn content 39.7 mg/kg and 37.0 mg/kg, respectively.	
Remark	Recommended for Peninsular Zone (Maharashtra, Karnataka, Andhrapradesh, Tamilnadu and Keralala).	

Wheat- Phule Shashwat (NIAW 4114)

	Release year	2025
	Name of Institute / University	Agricultural Research Station, Niphad, Dist. Nashik
	Soil type	Medium to heavy
	Climate	Cool and dry
	Sowing Time / Planting period	Irrigated late sown condition
Seed Rate	40 kg/acre	
Crop duration	105-110 days	
Productivity	47.9 q ha ⁻¹ (Maximum yield -70.2 q ha ⁻¹)	
Characters / features	High content of iron (39.9 mg/kg) and zinc (39.5 mg/kg)	
Remark	Recommended for late sown irrigated condition, at national level for Maharashtra, Karnataka, Telangana, Andhra Pradesh and Tamilnadu	