



Mahatma Phule Krishi Vidyapeeth, Rahuri

Sorghum Improvement Project

1.	Year of Start	:	1 April 1973																				
2.	Contact Details	:																					
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3.	Objectives/Mandates	:	<ul style="list-style-type: none"> Development of <i>rabi</i> sorghum varieties and hybrids coupled with biotic and abiotic stresses with high yield performance under shallow, medium, deep soil with irrigation and stress situations. Development of sweet sorghum varieties and hybrids in kharif season for higher juice yield and sugar content for ultimate aim of ethanol production 																				
4.	Infrastructure	:																					
	Land	:	26.92 ha.																				
	Irrigation facilities	:	2-bore wells , one farm pond, one well and seasonal canal irrigation																				
5.	Human Resource	:																					
	Technical Staff	:	<table> <tr> <th>SN</th><th>Designation</th><th>Discipline</th><th>Remarks</th></tr> <tr> <td colspan="4">B) Non plan scheme, 49 Strengthening Research Unit</td></tr> <tr> <td>1</td><td>Assistant Professor (Breeder)</td><td>Agril. Botany</td><td>Filled</td></tr> <tr> <td>2</td><td>Assistant Professor (Physiologist)</td><td>Agril. Botany</td><td>Filled</td></tr> <tr> <td>3</td><td>Assistant Professor</td><td>Biochemistry</td><td>Filled</td></tr> </table>	SN	Designation	Discipline	Remarks	B) Non plan scheme, 49 Strengthening Research Unit				1	Assistant Professor (Breeder)	Agril. Botany	Filled	2	Assistant Professor (Physiologist)	Agril. Botany	Filled	3	Assistant Professor	Biochemistry	Filled
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1	Assistant Professor (Breeder)	Agril. Botany	Filled																				
2	Assistant Professor (Physiologist)	Agril. Botany	Filled																				
3	Assistant Professor	Biochemistry	Filled																				
6.	Research Achievements	:																					
	Varieties & hybrids	:	20 varieties and 3 hybrids																				
	Recommendations	:	9																				
7.	Ongoing Research	:	<p>a) Plant breeding:</p> <ul style="list-style-type: none"> Development of high grain & fodder yielding <i>rabi</i> sorghum varieties and hybrids coupled with drought and shoot fly tolerance. Development of varieties suitable for Mechanical Harvesting Development of sweet sorghum varieties and hybrid for high cane yield coupled with good quality parameters and tolerance to biotic stresses. <p>b) Sorghum Physiology:</p> <ul style="list-style-type: none"> Phenotyping sorghum for key root traits associated with drought adaptation on rainfed and irrigated conditions on medium soil. Drought Multilocation sorghum varietal trial on different 																				

soils.

- Evaluation of *rabi* sorghum genotype for drought tolerance and stay green under Rainout shelter with residual soil and normal conditions.

c) Sorghum Biochemistry:

- Studies on quality and biomass of sweet sorghum for efficient ethanol production.2. Biochemical analysis for drought tolerance in sorghum.3. Studies on biochemical attributes related to sorghum shoot fly.