

FUTURE GOAL, WRS, NAU, BARDOLI

Crop Improvement:

1. Strengthening of genetic resources of wheat which include collection, evaluation, characterization, and maintenance of germplasm for making use in a future breeding program.
2. Screening of high-temperature tolerance culture of the Wheat crop for South Gujarat
3. To develop an early maturing high yielding variety that can be fitted in Rice-Wheat cropping sequences taken after paddy by late sown in the irrigated condition of south Gujarat
4. To develop high yielding, Late heat tolerance, Rust disease-resistant wheat variety for the south Gujarat region
5. Testing of newly developed genotypes under various categories of trials such as PET, SST, LST, and IVT in timely and late sowing conditions.
6. Seed multiplication of different varieties in various classes such as breeder, foundation, certified, and T. F. L. of different varieties on large scale to cater the need of farmers and various seed producing agencies.
7. Development of wheat variety having high water and nutrition using efficiency
8. Development of location-specific, short duration, heat tolerance, high yielding, biofortified (Zn & Fe rich) wheat varieties

Resource Management:

1. Increase wheat productivity through improved cultural and resource management practices
2. To find out the Performance of Rice-Wheat based cropping sequence in the presence and absence of Green Manure.
3. To test the response of genotypes to limited irrigations in Wheat
4. To evaluate the Rice-Wheat -Pulses cropping sequence in south Gujarat
5. Agronomical fortification of Zn and Fe in wheat crop
6. Maximized grain yield of wheat under high temperature by utilizing PGR and bio stimulants (homobrassinolide, novel, and novel square, isabion Syngenta, ambition bayer, and all new products for terminal heat tolerant prevent pollen sterility)
7. Development of suitable production technologies under conservation agriculture systems (Rice-Wheat by Rice straw mulching and zero tillage, Micro-irrigation in wheat, Biofertilizer seed treatment azotobactor, PSB, KSB)

Extension:

1. Dissemination of the newly developed varieties and technologies through Front Line Demonstrations.