

10. Achievements:

❖ SUGARCANE RESEARCH IN GUJARAT

- Sugarcane research was initiated in Gujarat at Vyara in 1934 during the tenure of the empire Sayajirao Gaikwad and very first variety Co 419 was released from this centre in 1936
- In 1958-59 Main Sugarcane Research Station was established at Kodinar thereafter in 1968-69, Regional Sugarcane Research Station at Navsari and Thasra were started simultaneously.
- In 1972-73 AICRP on sugarcane was started at Navsari and this centre was also included in fluff supply programme (i.e. hybridization/crossing) in 1982-83.
- Through AICRP trials total 13 varieties were endorsed by GAU/NAU. A total of 12 varieties have been released by Navsari centre through fluff supply programme (crossing programme) upto 2021-22.

✓ Varieties endorsed by G.A.U./N.A.U.

Sr. No.	Variety	Parentage	Year of released
1	Co 419 (Vyara Farm)	POJ 2878 x Co 290	1936-37
2	Co 775 (Kodinar)	POJ 2878 x Co 371	1972-73
3	Co 791 (Kodinar)	Co 449 x (POJ 2725 x <i>S. imperata</i>)	1972-73
4	Co 955 (Kodinar)	Co 683 x (POJ 2725 x <i>S. imperata</i>)	1972-73
5	Co 6806	Co 775 x Co 798	1981-82
6	Co 6304	Co 419 x Co 605	1981-82
7	CoA 7602	Co 1287 x Co 775	1982-83
8	CoC 671	Q 63 x Co 775	1984-85
9	Co 7527	Co 62175 x Co 658	1986-87
10	Co 62175	Co 951 x Co 419	1986-87
11	Co 8338	Co 7413 x Co 6806	1990-91
12	CoLk 8001	Co 62174 x Co 1	1996-97
13	Co 87263	Co 312 x Co 6806	1997-98

✓ **Varieties released by Main Sugarcane Research Station, NAU, Navsari (Through Hybridization Programme)**

Sr.No.	Variety	Parentage	Year of released
1	CoN 91132	BO 91 x Co 1148	1996-97
2	CoN 85134	BO 91 x Co 775	2000-01
3	CoN 95132	Co 8213 x Co 62198	2001-02
4	CoN 03131	BO 108 x CoS 510	2004-05
5	CoN 05071	CoJn 86310 x Co 86249	2007-08
6	CoN 05072	Co 8213 x BO 91	2007-08
7	CoN 04131	Co 95021 x Co 8347	2011-12
8	CoN 07072	CoS 8436 x Co 86002	2013-14
9	CoN 09072	Co 0217 GC	2015-16
10	CoN 13073	CoN 91132 x CoC 671	2016-17
11	CoN 13072	Co 86032 GC	2017-18
12	CoN 15072	CoM 0265 x CoN 85134	2020-21

✓ **Clones of the Centre included in National Hybridization Garden, SBI Coimbatore**

CoN 91132	CoN 85134	CoN 95132	CoN 07072	CoN 13074
CoN 03131	CoN 03132	CoN 05071	CoN 04131	CoN 10071
CoN 05072	CoN 98133	CoN 97132	CoN 13072	-

✓ **Sugarcane clones contributed by Centre for zonal testing in AICRP (S) from 2020-21 .**

Year	Clones for testing in peninsular zone			
2005	CoN 05071 (E)	CoN 05072 (M)	-	-
2007	CoN07071 (E)	CoN 07072 (E)	CoN 07073 (M)	-
2008	CoN 08071 (E)	CoN 08072 (M)	-	-
2009	CoN 09071 (E)	CoN 09072 (E)	CoN 09073 (M)	CoN 09074 (M)
2010	CoN 10071 (E)	CoN 10072 (E)	CoN 10073(M)	-
2011	CoN 11071 (E)	CoN 11072 (E)	CoN 11073 (M)	CoN 11074 (M)
2012	CoN 12071 (E)	CoN 12072 (E)	CoN 12073 (M)	CoN 12074 (M)
2013	CoN 13071 (E)	CoN 13072 (E)	CoN 13073 (M)	CoN 13074 (M)
2014	CoN 14071 (E)	CoN 14072 (E)	CoN 14073 (M)	CoN 14074 (M)
2015	-	-	CoN 15071 (M)	CoN 15072 (M)
2016	CoN 16071(E)	-	-	-
2017	CoN 17071 (E)	CoN 17072 (M)		
2018	CoN 18071 (E)	CoN 18072 (M)		
2019	CoN 19071(E)	CoN 19072 (M)		
2020	CoN 20071 (E)	CoN 20072 (M)		
2021	CoN 21071 (E)	CoN 21072 (M)		

✓ **The progress of selection under fluff supply programme is as under**

Sr. No.	Year	Crosses	GC/PC	No. of seedlings	C-I	C-II	C-III
1	2021	20	15+5=20	5111	360	-	-
2	2020	20	15+5=20	4778	449	88	-
3	2019	29	33+13 = 46	12712	925	211	-
4	2018	18	10+3 = 13	1339	250	104	39
5	2017	19	8+6=14	4591	278	159	51+6=57
6	2016	13+7=20	13+10=23	8610	951	153	50+6
7	2015	14+14=28	13+11=24	17210	1075	280	40+6