

**Annual Report of All India Coordinated Research Project on Sugarcane
(Agronomy & Soil Science) for the year 2012-13
Centre- Uchani (Karnal)**

- AS 42** : **Agronomic evaluation of promising new sugarcane genotypes.**
- Objectives** : To work out agronomy of sugarcane varieties from advanced varietal trial
- Year of start** : 2012-13 (Continued with new genotypes)
- Treatments** :
- A. Genotypes** – 8 (Four in early and four in mid-late groups in separate trials)
- i) Early : Co 7023, Co 7025, CoLk 7201 and CoH 7261
- ii) Mid-late : CoLk 7203, CoPb 7212, CoS 7234 and CoH 7263
- B. Fertility levels** - 3
- i) 75% of recommended doses of N (112.5 kg/ha)
- ii) 100% of recommended doses of N (150 kg/ha)
- iii) 125% of recommended doses of N (187.5 kg/ha)

The trial was conducted on early and mid late sugarcane varieties as mentioned above in Factorial RBD with three replications. The crop was planted at 75 cm row spacing on March 6, 2012. The soil of the experimental field was clay loam in texture having pH 7.8, EC 0.4 dsm⁻¹, organic carbon 0.36%, available P 12.5 kg/ha and available K 180 kg/ha. Recommended doses of phosphorus (50 kg P₂O₅/ha) and potash (50 kg K₂O/ha) were applied at the time of planting whereas nitrogen as per treatments was applied in three equal splits. The crop was irrigated at 8-10 days intervals during pre-monsoon period and 20 days interval during post monsoon period. The harvesting of the experiment was done on February 16, 2013.

In early group varieties, significantly higher germination was recorded in variety CoLk7201 and CoH 7261 as compared to Co7023 and Co 7025. Variety CoLk 7201 and Co 7025 being at par produced significantly higher number of millable canes and cane yield as compared to variety Co 7023 and CoH 7261 (Table1). There was no significant difference in cane weight among all the varieties. Variety Co 7025 produced highest sugar yield followed by CoLk 7201, CoH 7261 and lowest in Co 7023. Recommended and 25 % higher doses of N being at par recorded significantly higher number of tillers, millable canes and cane and sugar yield over 75% of recommended dose of N.

The data presented in Table 2 revealed that in mid-late group, significantly higher germination was recorded in variety CoPb 7212. Varieties CoLk 7203, CoPb 7212 and CoS7234 being at par produced significantly higher number of millable canes and cane yield as compared to variety CoH 7263(Table 2). Highest sugar yield was recorded in variety CoPb 7212 followed by CoLk 7203,CoS 7234and lowest in CoH 7263. Recommended and 25 % higher doses of N being at par recorded significantly higher number of tillers, millable canes and cane and sugar yield over 75% of recommended dose of N.

Summary: In early group Variety CoLk 7201 and Co 7025 being at par produced significantly higher cane yield as compared to variety Co 7023 and CoH 7261 Whereas in mid late group varieties CoLk 7203, CoPb 7212 and CoS7234 being at par produced significantly higher cane yield as compared to variety CoH 7263. Highest sugar yield was recorded in variety Co 7025 and CoPb 7212 in early and mid late group respectively. All the varieties in both the group responded upto recommended dose of fertilizers.

Table 1: Effect of different fertility levels on growth, yield and quality of early group varieties at Uchani (2012-13)

| Treatments | Germination (%) | No. of tillers (000/ha) | No. of millable canes (000/ha) | Single cane weight (g) | Cane yield (t/ha) | CCS (%) | Sugar yield (t/ha) |
|----------------------|-----------------|-------------------------|--------------------------------|------------------------|-------------------|---------|--------------------|
| Genotypes | | | | | | | |
| Co 7023 | 49.5 | 126.9 | 91.2 | 842 | 76.1 | 11.76 | 8.95 |
| Co 7025 | 47.1 | 136.9 | 99.6 | 873 | 86.0 | 11.72 | 10.08 |
| CoLk 7201 | 57.3 | 144.9 | 103.2 | 866 | 88.6 | 11.21 | 9.93 |
| CoH 7261 | 57.5 | 123.2 | 91.0 | 879 | 79.2 | 11.28 | 8.96 |
| CD at 5% | 3.7 | 6.8 | 4.7 | NS | 4.0 | 0.42 | 0.63 |
| Nitrogen dose | | | | | | | |
| 75% of recom. | 52.4 | 123.8 | 90.0 | 836 | 75.1 | 11.45 | 8.59 |
| Recommended | 52.9 | 134.9 | 97.9 | 877 | 84.9 | 11.57 | 9.84 |
| 125% of recom. | 53.2 | 140.2 | 100.1 | 883 | 87.2 | 11.46 | 10.02 |
| CD at 5% | NS | 5.9 | 4.0 | 25 | 3.6 | NS | 0.54 |

* Recommended N - 150 kg /ha

Table 2: Effect of different fertility levels on growth, yield and quality of mid- late group varieties at Uchani (2012-13)

| Treatments | Germination (%) | No. of tillers (000/ha) | No. of millable canes (000/ha) | Single cane weight (g) | Cane yield (t/ha) | CCS (%) | Sugar yield (t/ha) |
|----------------------|-----------------|-------------------------|--------------------------------|------------------------|-------------------|---------|--------------------|
| Genotypes | | | | | | | |
| CoLk 7203 | 44.0 | 134.3 | 98.2 | 929 | 90.4 | 12.06 | 10.91 |
| CoPb 7212 | 51.0 | 141.2 | 104.4 | 865 | 89.5 | 12.46 | 11.15 |
| CoS 7234 | 46.5 | 146.0 | 105.7 | 838 | 87.9 | 12.22 | 10.74 |
| CoH 7263 | 47.0 | 129.8 | 97.4 | 943 | 81.4 | 12.23 | 9.96 |
| CD at 5% | 3.8 | 6.9 | 5.0 | 29 | 4.7 | 0.17 | 0.62 |
| Nitrogen dose | | | | | | | |
| 75% of recom. | 47.6 | 127.8 | 95.3 | 842 | 79.4 | 12.19 | 9.67 |
| Recommended | 47.3 | 140.4 | 103.5 | 882 | 90.32 | 12.31 | 11.13 |
| 125% of recom. | 46.5 | 145.3 | 105.4 | 883 | 92.2 | 12.21 | 11.23 |
| CD at 5% | NS | 6.0 | 4.5 | 25 | 4.1 | NS | 0.54 |

* Recommended N - 150 kg /ha

AS-64: Response of sugarcane to different plant nutrients in varied agro ecological situations

Objective: To study differential response of sugarcane to different nutrients.

Year of start: 2011-12

Treatments:

1. Control(No fertilizer)
2. N
3. NP
4. NPK
5. NPK + S
6. NPK + Zn
7. NPK + Fe
8. NPK+ Mn
9. NPK+ S + Zn
10. NPK+ S + Zn + Fe
11. NPK+ S + Zn + Fe + Mn
12. Soil test based fertilizer application

Results achieved: Sugarcane variety CoH 119 (Mid group) was planted on March 13, 2012 at 75 cm spacing in randomized block design with three replications. The soil of the experimental field of plant crop was clay loam in texture having pH 8.7, EC 0.4 dsm⁻¹, organic carbon 0.30%, available P 9.0 kg/ha and available K 173 kg/ha, available S (10.4 kg/ha), available Zn (0.52 ppm) and available Fe (4.2 ppm) and available Mn (9.6 ppm). Recommended doses of phosphorus (50 kg P₂O₅/ha), potash (50 kg K₂O/ha) and Sulphur (60 kg/ha) were applied at the time of planting whereas recommended dose of nitrogen (150 kg N/ha) was applied in three equal splits as top dressing (April, May & June). Zinc, Fe and Mn were applied thrice (April, May & June) as foliar spray. The crop was irrigated at 8-10 days intervals during pre-monsoon period and 20 days interval during post monsoon period. The plant crop was harvested on February 19, 2013. Ratoon crop was initiated in mid January 2012 and raised with recommended packages and practices of the region. Nutrients were applied as per treatments. The ratoon crop was harvested on December, 15, 2012

Plant crop: The application of N over control, NP over N alone, NPK over NP, and NPKS over NPK significantly increased cane yield of plant crop (Table 3). The application of individual micronutrient (Fe, Mn and Zn) in combination NPK did not significantly increased cane yield over NPK alone. However, the combined application of these micro nutrients significantly increased the cane yield over NPK alone.

Ratoon crop: The application of individual micronutrient (Fe, Mn and Zn) in combination with NPK did not significantly increased cane yield over NPK alone in ratoon crop. The application of N over control, NP over N alone, NPK over NP, and NPKS over NPK significantly increased cane yield of plant crop (Table 4) in ratoon crop.

Summary: The application of N over control, NP over N alone, NPK over NP, and NPKS over NPK significantly increased cane yield. The application of individual micronutrient (Fe, Mn and Zn) in combination NPK did not significantly increase cane yield over NPK. However, the combined application of these micro nutrients significantly increased cane yield over NPK alone.

Table 3: Effect of different treatments on sugarcane growth and yield of plant crop at Uchani (2012-13).

| Treatments | Cane yield (t/ha) | CCS (%) | Sugar Yield (t/ha) |
|--|-------------------|---------|--------------------|
| Control(No fertilizer) | 48.2 | 10.51 | 5.07 |
| N | 61.2 | 10.90 | 6.67 |
| NP | 72.5 | 11.28 | 8.18 |
| NPK | 82.8 | 11.56 | 9.57 |
| NPK+S | 88.8 | 11.58 | 10.28 |
| NPK +Zn | 82.3 | 11.55 | 9.51 |
| NPK +Fe | 83.2 | 11.59 | 9.64 |
| NPK +Mn | 81.2 | 11.53 | 9.36 |
| NPK +S+Zn | 90.5 | 11.68 | 10.57 |
| NPK+S+Zn+Fe | 95.0 | 11.70 | 11.12 |
| NPK+S+Zn+Fe+Mn | 95.6 | 11.72 | 11.20 |
| Soil test based fertilizer application | 81.4 | 11.57 | 9.42 |
| CD at 5% | 3.9 | 0.31 | 0.48 |

Table 4: Effect of different treatments on sugarcane growth and yield of ratoon crop at Uchani (2012-13).

| Treatments | Cane yield (t/ha) | CCS (%) | Sugar Yield (t/ha) |
|--|--------------------------|----------------|---------------------------|
| Control(No fertilizer) | 41.0 | 10.45 | 4.28 |
| N | 58.8 | 11.77 | 6.92 |
| NP | 69.9 | 12.01 | 8.39 |
| NPK | 80.6 | 12.40 | 9.99 |
| NPK+S | 87.8 | 12.54 | 11.01 |
| NPK +Zn | 82.2 | 12.51 | 10.28 |
| NPK +Fe | 83.2 | 12.50 | 10.40 |
| NPK +Mn | 82.7 | 12.48 | 10.32 |
| NPK +S+Zn | 88.4 | 12.56 | 11.10 |
| NPK+S+Zn+Fe | 92.0 | 12.60 | 11.59 |
| NPK+S+Zn+Fe+Mn | 93.3 | 12.64 | 11.79 |
| Soil test based fertilizer application | 82.0 | 12.38 | 10.15 |
| CD at 5% | 4.4 | 0.35 | 0.46 |

AS-65 : Enhancing sugarcane productivity and profitability under wheat sugarcane cropping system

Objective : To enhance the productivity of sugarcane under wheat- sugarcane cropping system

Year of start : 2011 (autumn)

Treatments:

T₁: Autumn planted sugarcane

T₂: T₁ + Wheat (1:2)

T₃: T₁ + Wheat (1:3)

T₄: Wheat sown on 15th Nov. followed by sugarcane planting after wheat harvest

T₅: Wheat sown on 15th Dec. followed by sugarcane planting after wheat harvest

T₆: FIRB sowing of wheat 15th Nov. + Sugarcane in furrows in 3rd week of February

T₇: FIRB sowing of wheat 15th Nov. + Sugarcane in furrows in 3rd week of March

T₈: FIRB sowing of wheat 15th Dec. + Sugarcane in furrows in 3rd week of February

T₉: FIRB sowing of wheat 15th Dec. + Sugarcane in furrows in 3rd week of March

Results achieved:

Sugarcane variety CoH 150 and wheat variety HD 2967 were planted as per treatment in different dates of planting in randomized block design with three replications. The soil of the experimental field was clay loam in texture having pH 8.2, EC 0.4 dsm⁻¹, organic carbon 0.36%, available P 11 kg/ha and available K 170 kg/ha. Recommended doses of phosphorus (50 kg P₂O₅/ha) and potash (50 kg K₂O/ha) were applied at the time of planting whereas nitrogen (150 kg N/ha) was applied in three equal splits in case of sugarcane crop Whereas in wheat crop full dose of phosphorus (60 kg/ha) and potash (60 kg/ha) were applied at the time of planting and nitrogen (150 kg/ha) was applied in two equal splits (21 and 42 days after sowing). Crops were irrigated as per the requirement of wheat crop upto harvesting of wheat and later on sugarcane was irrigated at 8-10 days intervals during pre-monsoon period and 20 days interval during post monsoon period. Wheat crop was harvested on April 15, 2012. Planting of sugarcane (after wheat harvest) in treatment T₄ and T₅ was done on April 22, 2012. Sugarcane crop was harvested on February 22, 2013.

Wheat sown with autumn cane (Oct. 30, 2011) and 15th November on bed or by conventional method produced higher grain yield as compared to wheat sown on 15th December. Autumn planted cane recorded significantly higher germination as compared to spring and late planting (Table 5). Lowest germination was recorded in late planting of sugarcane after wheat harvest. T₁, T₂ and T₃ being at par

recorded significantly higher number of tillers, millable canes, cane weight ,cane yield and sugar yield as compare to rest of the treatments(Table 5& Table 6). FIRB sowing of wheat on 15th November + planting of sugarcane in standing crop of wheat in February or March (T₆, T₇) and FIRB sowing of wheat on 15th December + planting of sugarcane in standing crop of wheat in February or March (T₈, T₉) being at par produced significantly higher number of tillers, NMC, cane weight, cane yield and sugar yield as compared to late planting of sugarcane after wheat harvesting (T₄ and T₅). There was a yield reduction of 44.4% with late planting of sugarcane after wheat harvesting as compared to planting of sugarcane in February or March in standing crop of wheat (Table 6).

Summary: Wheat sown with autumn cane (Oct. 30, 2011) and 15th November on bed or by conventional method produced higher grain yield as compared to wheat sown on 15th December. Autumn planted cane recorded significantly higher germination as compared to spring and late planting. Lowest germination was recorded in late planting of sugarcane after wheat harvest. There was a yield reduction of 44.4% with late planting of sugarcane after wheat harvesting as compared to planting of sugarcane in February or March in standing crop of wheat.

Table 5: Effect of different treatments on wheat crop and growth parameters of sugarcane crop at Uchani (2012-13).

| Sr. No. | Treatments | Wheat Grain yield (q/ha) | S. cane germi. (%) | Tillers (000/ha) | NMC (000/ha) | Cane wt.(g) |
|----------------|---|--------------------------|--------------------|------------------|--------------|-------------|
| T ₁ | Autumn planted sugarcane | --- | 50.3 | 148.6 | 106.0 | 980 |
| T ₂ | T ₁ + Wheat (1:2) | 60.5 | 48.3 | 145.4 | 104.1 | 971 |
| T ₃ | T ₁ + Wheat (1:3) | 59.2 | 49.2 | 144.3 | 102.7 | 968 |
| T ₄ | Wheat sown on 15 th Nov. followed by sugarcane planting after wheat harvest | 58.0 | 36.1 | 74.8 | 71.9 | 656 |
| T ₅ | Wheat sown on 15 th Dec. followed by sugarcane planting after wheat harvest | 50.5 | 35.2 | 73.4 | 70.7 | 658 |
| T ₆ | FIRB sowing of wheat 15 th Nov. + Sugarcane in furrows in 3 rd week of February | 58.8 | 45.6 | 125.6 | 97.3 | 830 |
| T ₇ | FIRB sowing of wheat 15 th Nov. + Sugarcane in furrows in 3 rd week of March | 57.3 | 49.5 | 126.9 | 97.2 | 831 |
| T ₈ | FIRB sowing of wheat 15 th Dec. + Sugarcane in furrows in 3 rd week of February | 51.2 | 46.0 | 128.1 | 98.0 | 832 |
| T ₉ | FIRB sowing of wheat 15 th Dec. + Sugarcane in furrows in 3 rd week of March | 50.3 | 48.6 | 128.2 | 99.2 | 831 |
| CD at 5% | | 1.8 | 2.7 | 10.8 | 7.5 | 50 |

Table 6: Effect of different treatments on cane yield, CCS (%) and sugar yield at Uchani (2012-13).

| Sr. No. | Treatments | Cane yield (t/ha) | Equivalent yield (t/ha) | Total cane yield (t/ha) | CCS (%) | Sugar yield (t/ha) |
|----------------|---|-------------------|-------------------------|-------------------------|---------|--------------------|
| T ₁ | Autumn planted sugarcane | 102.8 | -- | 102.8 | 12.57 | 12.92 |
| T ₂ | T ₁ + Wheat (1:2) | 100 | 29.1 | 129.1 | 12.63 | 12.62 |
| T ₃ | T ₁ + Wheat (1:3) | 98.3 | 28.5 | 126.8 | 12.68 | 12.47 |
| T ₄ | Wheat sown on 15 th Nov. followed by sugarcane planting after wheat harvest | 46.4 | 27.9 | 74.3 | 12.35 | 5.72 |
| T ₅ | Wheat sown on 15 th Dec. followed by sugarcane planting after wheat harvest | 45.6 | 24.3 | 69.9 | 12.31 | 5.61 |
| T ₆ | FIRB sowing of wheat 15 th Nov. + Sugarcane in furrows in 3 rd week of February | 79.5 | 28.3 | 107.8 | 12.62 | 10.05 |
| T ₇ | FIRB sowing of wheat 15 th Nov. + Sugarcane in furrows in 3 rd week of March | 79.6 | 27.5 | 107.1 | 12.53 | 9.97 |
| T ₈ | FIRB sowing of wheat 15 th Dec. + Sugarcane in furrows in 3 rd week of February | 80.4 | 24.6 | 105.0 | 12.65 | 10.17 |
| T ₉ | FIRB sowing of wheat 15 th Dec. + Sugarcane in furrows in 3 rd week of March | 81.2 | 24.2 | 105.4 | 12.56 | 10.19 |
| CD at 5% | | 7.1 | -- | -- | NS | 0.92 |

AS-66: Priming of cane node for accelerating germination.

Objectives:

1. To find out suitable cane node priming technique.
2. To assess the effect of cane node priming technique on acceleration of germination.

Year of start: 2012-13

Treatments

1. Un primed cane node
2. Treating cane node in hot water at 50°C for 2 hours.
3. Treating cane node in hot water (50°C) + urea solution (3%) for 2 hours.
4. Priming cane node with cattle dung, cattle urine and water in 1:2:5 ratio.
5. Conventional three bud sett planting.
6. Primed and sprouted cane node (incubated for 4 days after priming).

The trial was conducted on early variety CoH 160 in randomized block design with three replications. The crop was planted at 75 cm row spacing on March 15, 2012. The soil of the experimental field was clay loam in texture having pH 7.8, EC 0.4 dsm^{-1} , organic carbon 0.37%, available P 12.0 kg/ha and available K 172 kg/ha. Cane node having buds and root bands with 4-5 cm length were taken for planting. After planting cane nodes in furrows were covered with 2-3cm soil layer. Cane nodes were planted at 10 cm depth with plant to plant spacing of 30 cm. Recommended doses of phosphorus (50 kg $\text{P}_2\text{O}_5/\text{ha}$) and potash (50 kg $\text{K}_2\text{O}/\text{ha}$) were applied at the time of planting whereas nitrogen was applied in three equal splits. The crop was irrigated at 8-10 days intervals during pre-monsoon period and 20 days interval during post monsoon period. The harvesting of the experiment was done on Feb. 2, 2013.

No germination was noticed in any treatments at 10 days after planting. Highest germination was recorded in conventional three buds planting and planting of primed and sprouted cane node (Incubated for four days after priming) at 20,30 and 40 days after planting. Three bud planting recorded highest number of shoots, millable canes, cane weight, cane yield, CCS% and sugar yield (Table 7 & Table 8). Among priming treatments, planting of primed and sprouted cane node (T_6) recorded highest germination, number of shoots, millable canes, cane weight, cane yield and sugar yield. Planting of cane node after dipping in hot water (50° C) +urea solution (3%) for 2 hours (T_3) was found second best among priming treatments. Unprimed cane node recorded lowest number of number of shoots, millable canes, cane weight, cane yield and sugar yield (Table 7 & Table 8).

Table 7: Effect of different treatments on germination and no. of shoots of sugarcane at Uchani (2012-13)

| | Treatments | Germination (%) | | | No. of shoots (000/ha) | |
|----------------------|--|-----------------|--------|--------|------------------------|---------|
| | | 20 DAP | 30 DAP | 40 DAP | 90 DAP | 120 DAP |
| T₁ | Un-primed cane node | 14.2 | 25.2 | 40.5 | 67.2 | 69.0 |
| T₂ | Treating cane node in hot water at 50°C for 2 hours. | 19.5 | 29.4 | 42.6 | 69.9 | 72.8 |
| T₃ | Treating cane node in hot water (50° C) + urea solution (3%) for 2 hours | 24.4 | 35.3 | 50.5 | 78.2 | 82.3 |
| T₄ | Priming cane node with cattle dung, cattle urine and water in 1:2:5 ratio. | 18.1 | 28.0 | 41.9 | 70.1 | 73.4 |
| T₅ | Conventional 3-bud sett planting. | 30.3 | 42.6 | 51.2 | 159.0 | 161.5 |
| T₆ | Primed and sprouted cane node (Incubated for four days after priming) | 28.1 | 41.0 | 52.7 | 82.4 | 89.5 |
| CD at 5% | | 1.8 | 2.2 | 2.4 | 5.7 | 5.6 |

Table 8 : Effect of different treatments on growth and cane yield of sugarcane at Uchani (2012-13)

| | Treatments | NMC (000/ha) | Cane height (cm) | Cane weight (g) | Cane yield (t/ha) | CCS (%) | Sugar yield (t/ha) |
|----------------------|--|--------------|------------------|-----------------|-------------------|---------|--------------------|
| T₁ | Un-primed cane node | 67.7 | 14.1 | 646 | 43.2 | 12.09 | 5.23 |
| T₂ | Treating cane node in hot water at 50°C for 2 hours. | 71.4 | 137.5 | 659 | 46.5 | 12.03 | 5.59 |
| T₃ | Treating cane node in hot water (50° C) + urea solution (3%) for 2 hours | 80.9 | 178.4 | 679 | 54.2 | 12.07 | 6.54 |
| T₄ | Priming cane node with cattle dung, cattle urine and water in 1:2:5 ratio. | 71.9 | 177.5 | 654 | 46.4 | 12.07 | 5.61 |
| T₅ | Conventional 3-bud sett planting. | 109.3 | 220.6 | 831 | 89.6 | 13.41 | 12.02 |
| T₆ | Primed and sprouted node (Incubated for four days after priming) | 84.9 | 184.8 | 687 | 57.5 | 12.18 | 7.00 |
| CD at 5% | | 4.5 | 14.4 | 28 | 2.8 | 0.35 | 0.40 |

**Summary of Experiments Conducted by Crop production group (Agronomy & Soil Science) at
CCSHAU, RRS, UCHANI, KARNAL
(2012-13)**

Following experiments were allotted during 2012-13 and all the allotted experiments were conducted

AS 42: Agronomic evaluation of promising new sugarcane genotypes

In early group Variety CoLk 7201 and Co 7025 being at par produced significantly higher cane yield as compared to variety Co 7023 and CoH 7261 Whereas in mid late group varieties CoLk 7203, CoPb 7212 and CoS7234 being at par produced significantly cane yield as compared to variety CoH 7263. All the varieties in both the group responded upto recommended dose of fertilizers.

AS-64: Response of sugarcane to different plant nutrients in varied agro ecological situations

The application of N over control, NP over N alone, NPK over NP, and NPKS over NPK significantly increased cane yield. The application of individual micronutrient (Fe, Mn and Zn) in combination NPK did not significantly increase cane yield over NPK. However, the combined application of these micro nutrients significantly increased cane yield over NPK alone.

AS-65 : Enhancing sugarcane productivity and profitability under wheat sugarcane cropping system

Wheat sown with autumn cane (Oct. 30, 2011) and 15th November on bed or by conventional method produced higher grain yield as compared to wheat sown on 15th December. Autumn planted cane recorded significantly higher germination as compared to spring and late planting. Autumn planted cane recorded significantly higher germination as compared to spring and late planting. Lowest germination was recorded in late planting of sugarcane after wheat harvest. There was a yield reduction of 44.4% with late planting of sugarcane after wheat harvesting as compared to planting of sugarcane in February or March in standing crop of wheat.

AS-66: Priming of cane node for accelerating germination

Three bud planting recorded highest number of shoots, millable canes, cane weight, cane yield, CCS% and sugar yield. Among priming treatments planting of primed and sprouted cane node (T6) recorded highest germination number of shoots, millable canes, cane weight, cane yield and sugar yield.