

| Group Name | (1 : 2.5) | | Organic Carbon | Available Nitrogen | Available P ₂ O ₅ | Available K ₂ O | Sulphur | Ca | Mg | Total Bacterial Count (TBC) | Total Fungal Count (TFC) | Phosphorus Solubilizing Microbes (PSM) | Actinomycetes | Rhizobium spp. |
|------------------|-------------|------------|----------------|--------------------|---|----------------------------|---------|-------|-------|-----------------------------|--------------------------|--|-----------------------|-----------------------|
| | pH | EC | | | | | | | | | | | | |
| | | (dS / m) | (%) | (kg / ha) | | | (ppm) | (%) | cfu/g | | | | | |
| Deepak | 5.9 | 0.1 | 0.7 | 337.1 | 103.8 | 54.4 | 5.7 | 0.1 | 0.0 | 1.4X10 ⁷ | 1.0X10 ⁵ | 4.0 X 10 ⁴ | 3.4X10 ⁵ | NIL |
| Ujala | 6.0 | 0.1 | 0.7 | 340.5 | 109.6 | 59.9 | 6.7 | 0.1 | 0.0 | 1.8X10 ⁷ | 1.2X10 ⁵ | NIL | 7.7 X 10 ⁵ | 7.0 X 10 ⁴ |
| Jai devi maa | 6.5 | 0.5 | 1.0 | 350.1 | 242.3 | 63.5 | 8.3 | 0.1 | 0.0 | 2.0X10 ⁷ | 2.7X10 ⁵ | NIL | 1.8X10 ⁵ | NIL |
| Japgol Devta | 6.8 | 0.4 | 1.0 | 345.0 | 252.1 | 69.0 | 5.7 | 0.1 | 0.0 | 2.0X10 ⁸ | 2.3X10 ⁵ | 3.0 X 10 ³ | 3.5 X 10 ⁵ | NIL |
| Ujagar | 6.8 | 0.1 | 0.7 | 335.9 | 258.1 | 63.9 | 10.8 | 0.1 | 0.0 | 1.1X10 ⁶ | 9.7X10 ⁴ | 6.0 X 10 ⁴ | 1.7X10 ⁶ | 8.0 X 10 ⁴ |
| Sahas | 6.3 | 0.1 | 0.6 | 277.5 | 70.5 | 58.5 | 11.1 | 0.1 | 0.0 | 1.5X10 ⁷ | 2.4X10 ⁵ | NIL | 6.3 X 10 ⁵ | 4.0 x 10 ³ |
| Ujagar Bhaura | 6.3 | 0.1 | 0.5 | 232.1 | 57.5 | 51.1 | 9.3 | 0.1 | 0.0 | 6.2X10 ⁶ | 1.9X10 ⁵ | NIL | 7.9 X 10 ⁵ | NIL |
| Navneet | 6.4 | 0.1 | 0.7 | 351.2 | 131.6 | 73.5 | 7.2 | 0.1 | 0.0 | 3.2X10 ⁷ | 1.4X10 ⁶ | 1.3 X 10 ⁵ | 5.8 X 10 ⁵ | NIL |
| Mahila Uthaan | 6.2 | 0.1 | 0.5 | 398.3 | 219.8 | 172.0 | 9.7 | 0.2 | 0.0 | 2.7X10 ⁷ | 5.9X10 ⁵ | NIL | 5.4 X 10 ⁵ | NIL |
| Committee Member | 6.1 | 0.1 | 0.6 | 332.4 | 144.5 | 94.1 | 8.0 | 0.1 | 0.1 | 3.1X10 ⁷ | 4.7X10 ⁵ | 2.0 X 10 ⁴ | 2.8 X 10 ⁵ | NIL |
| Aarti | 6.2 | 0.1 | 0.6 | 292.7 | 68.9 | 60.9 | 9.1 | 0.0 | 0.0 | 1.1X10 ⁷ | 1.9X10 ⁵ | | | |
| Jaibhumiya | 6.0 | 0.1 | 0.7 | 323.4 | 79.3 | 97.4 | 14.8 | 0.1 | 0.0 | 1.4X10 ⁷ | 4.4X10 ⁵ | 1.0X10 ⁵ | 2.7X10 ⁵ | 7.5X10 ⁴ |
| Navneet | 5.8 | 0.1 | 0.5 | 282.2 | 56.0 | 51.1 | 7.7 | 0.1 | 0.0 | 1.0X10 ⁷ | 3.5X10 ⁵ | | | |
| Durga | 6.5 | 0.4 | 1.8 | 370.0 | 259.1 | 182.8 | 3.5 | 0.2 | 0.1 | 2.2X10 ⁷ | 2.4X10 ⁵ | 1.3 X 10 ⁵ | 6.9 X 10 ⁵ | NIL |
| Sibdhi | 7.1 | 0.5 | 2.4 | 357.5 | 304.9 | 177.4 | 8.6 | 0.2 | 0.1 | 2.3X10 ⁷ | 4.1X10 ⁴ | NIL | 4.4 X 10 ⁵ | 1.8 X 10 ⁵ |
| Krishi Samuh | 6.6 | 0.4 | 1.5 | 401.4 | 304.2 | 43.0 | 8.9 | 0.1 | 0.1 | 6.6X10 ⁶ | 1.3X10 ⁵ | 3.0 X 10 ⁵ | 7.8 X 10 ⁵ | 2.5 X 10 ⁵ |
| Jagrati Samooh | 7.0 | 0.2 | 0.9 | 288.5 | 276.7 | 82.0 | 23.2 | 0.1 | 0.0 | 3.0X10 ⁷ | 1.7X10 ⁵ | NIL | 3.5 X 10 ⁵ | NIL |

Extreme value

| | | | | | | | | | | | | | | |
|---------|-----|-----|-----|-------|-------|-------|------|-----|-----|---------------------|---------------------|---------------------|---------------------|---------------------|
| Maximum | 7.1 | 0.5 | 2.4 | 401.4 | 304.9 | 182.8 | 23.2 | 0.2 | 0.1 | 6.6X10 ⁸ | 1.4X10 ⁸ | 3.0X10 ⁶ | 1.7X10 ⁸ | 2.5X10 ⁶ |
| Minimum | 5.8 | 0.1 | 0.5 | 232.1 | 56.0 | 43.0 | 3.5 | 0.0 | 0.0 | 1.0X10 ⁷ | 4.1X10 ⁴ | 3.0X10 ³ | 1.8X10 ⁶ | 4.0X10 ³ |

Conclusion:

pH

There is wide variation in pH. Mostly the soils are acidic making non-conducive niche for beneficial microbes to thrive and survive in soil.

EC

Same is the situation with EC.

Sulphur & Mg

Same is the situation with sulphur and Mg

TBC, TFC and

Same is the situation. Lower the population higher is the probability of crop failure in terms of achievable yield.

Actinomycetes

Organic carbon

Fields under only five groups have adequate carbon. Since carbon is the backbone for microbial activities it requires attention on priority. Conservation methods need to be implemented for sustainable agriculture.

Nitrogen

Natural nitrogen is less as also indicated by Rhizobium population indicated in different column. Leguminous crop need to be promoted with treatment with rhizobium.

In absence of microbial activity (VAM) the available phorus are locked in the soil. Its deprivation will result in crop scumbing to diseases especially and small grains.