# Overall Recovery and Sugar % Cane

Overall recovery from mill extraction and boiling house recovery, and sugar made % cane and per day from pol % cane and the crush.

**Method:** Sugar factory chemical control (daily manufacturing report) definitions; as compiled in SugarProcessTech; ...

## Input parameters

Unit system: SI

| Parameter | Value | Unit |
|---|---|---|
| Mill extraction | 95.500 | % |
| Boiling house recovery | 89.000 | % |
| Pol % cane | 13.500 | % |
| Pol % sugar | 99.700 | % |
| Cane crushed per day | 5,000.0 | t/d |

## Calculated results

| Parameter | Value | Unit |
|---|---|---|
| Overall recovery | 84.995 | % |
| Sugar % cane | 11.509 | % |
| Sugar made per day | 575.44 | t/d |

## Formula and method

$$OR = ME \cdot BHR, \quad R = \frac{Pol_c\, OR}{Pol_S}, \quad \dot{m}_S = TCD\, R$$

### Variables

| | | |
|---|---|---|
| $ME$ | Mill extraction | - |
| $BHR$ | Boiling house recovery | - |
| $Pol_c$ | Pol % cane | - |
| $Pol_S$ | Pol % sugar | - |
| $TCD$ | Cane crushed per day | kg/s |
| $OR$ | Overall recovery | - |
| $R$ | Sugar % cane | - |
| $\dot{m}_S$ | Sugar made per day | kg/s |

### Method and standards

Definitions.

### Assumptions and limits

- Pol basis.

### References

- Sugar factory chemical control (daily manufacturing report) definitions
- as compiled in SugarProcessTech
- Formulas for calculating sugar industry DMR

## Report details

| | |
|---|---|
| Report reference | FCC-H0KX-VR2T (the same inputs always give the same reference) |
| Generated | 17 November 2026, 19:50 UTC |
| Calculator | Overall Recovery and Sugar % Cane |
| Method last reviewed | 13 November 2026 |
| Software release | FireCAD Calc, release of 17 November 2026 |
| Release checks | 2 reference cases of this calculator, computed independently, are checked on every release |

Results are for engineering estimation. Verify critical designs against the referenced standards and your own data.

### This calculator online

https://calc.firecad.com/sugar-ethanol/chemical-control/overall-sugar-recovery

Open this case on calc.firecad.com →

Reopens the calculator with the inputs of this report.