

# Nx Farmer Guide: Indices, Produce Profiles & Field Use

## Purpose of Nx in the Field

Nx is a comparative field tool designed to help farmers observe differences in produce related to soil condition, variety, ripeness, harvest timing, and storage. It supports observation and trend tracking rather than single-point judgement.

## Independent Indices

### SCI (Sweetness-related Index)

Sensitive to sweetness-related, soluble characteristics influenced by variety, maturity, and growing conditions.

### NDI (Density-related Index)

Sensitive to structure-, solidity-, and density-related characteristics influenced by soil, plant health, and harvest timing.

## Key Principles

- SCI and NDI are independent and not opposites.
- Neither index is intrinsically better than the other.
- Interpretation depends on produce type and variety.

## Interpreting SCI Relative to NDI

SCI higher than NDI indicates sweetness-dominant composition. This is normal for many fruits and certain varieties. Interpretation should be comparative and longitudinal, not absolute.

## Produce Profiles

Considering SCI and NDI together allows produce to be described using profiles rather than fixed targets.

- Density-leaning: structural characteristics dominate
- Sweet-leaning: sweetness-related characteristics dominate
- Low overall signals: often immature, stressed, or long-stored produce
- High overall signals: concentrated, well-developed produce

## Recommended Field Use

- Compare within the same variety and harvest window
- Repeat measurements to confirm consistency
- Track trends over time rather than relying on single readings
- Use Nx alongside agronomic knowledge and observation

*Nx is a comparative tool intended to support field observation. It does not replace laboratory analysis or agronomic advice.*