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Data & AI

Data Literacy for Agriculture & Food Supply Chains Playbook

Reading yield and supply data well enough to separate weather noise from genuine operational signal

- Practitioner
- Intermediate
- Template Included

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- 21 March 2020
- 4 minute(s)

Overview

A framework for building data literacy within agriculture and food supply chain teams — weather and seasonal confounding awareness, yield variability interpretation, and appropriately weighing short-term data against multi-year agricultural cycles when evaluating operational or agronomic changes.

Agricultural yield data seems straightforward to interpret —

what's the specific data literacy challenge? Yield is heavily influenced by weather and seasonal variation that can swamp the effect of an agronomic or operational change being evaluated — a single season's data, without accounting for weather conditions relative to normal, can easily misattribute a weather-driven yield change to an unrelated operational decision.

Why does agriculture specifically require multi-year thinking for

data interpretation? Weather and seasonal variation mean a single year's data is often not representative of typical or expected performance — evaluating an agronomic change properly usually requires multiple growing seasons or explicit weather-adjustment to separate genuine effect from normal year-to-year variation.

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