FPI Online Academy | Species yield analysis | 2026

Moringa rivae

Yield evidence, production logic and field validation

SPECIES BRIEF 11 / EXPLORATORY YIELD ASSESSMENT



Moringa rivae: preserved botanical specimen photograph. Board of Trustees, Royal Botanic Gardens, Kew / CC BY 4.0. Full credit and source: page 5.

The production decision

A botanically distinct species whose evaluation should begin with reliable identification and seasonal records. Generic moringa imagery, colour claims and broad industrial labels are inadequate substitutes for accession evidence.

Identity	Assessment basis
Native range	Eastern and southeastern Ethiopia, Somalia and northern Kenya
Life form	Dryland tree in the accepted Kew record
Product route	Provenance-led cultivation and phenotype research

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Author | Research reviewed 22 October 2026

MORINGA RIVAE

What the evidence supports

Botanical identity comes before yield

Moringa rivae Chiov. is treated as an accepted species in the Kew record. This is a species profile, not proof of a named commercial cultivar or a uniform genetic line. The native-range description is an ecological starting point, not a site recommendation. [S1]

Evidence interpretation

The accepted taxonomy supports a dryland species identity and distribution. No transferable commercial leaf, seed or oil yield was identified in the reviewed sources. The website description of a blue-flowered variety is not used as an identification or yield criterion. Identification should rest on documented botanical characters and a voucher, with any revised determination retained. [S1]

Yield question	Evidence position
Annual saleable output	A local, product-specific time series is still required.
Density and cutting	Test the interaction with survival, recovery and resource use.
Processing recovery	Measure fresh input, dried mass and accepted output separately.
Financial use	Use measured accepted batches; do not treat a hypothetical case as a forecast.

The question this species must answer

Which authenticated provenance, if any, establishes locally and produces a repeatable harvest suited to a defined customer?

How to read a yield claim

A useful figure identifies species or accession, plant age, location, net planted area, product organ, moisture basis, observation period and harvest count. If one of these is missing, keep the number as a research lead rather than a commitment to a buyer. A seed-oil percentage and a nutrient concentration are product attributes; neither is a field-yield measure.

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Turn measurements into usable yield

State the product and time basis

Survival, canopy duration, mature seed and conservative above-ground harvest recovery by accession.

Accepted dried leaf = weighed fresh leaf x measured dry recovery x accepted fraction

This is a mass-balance sensitivity, not measured species performance. The assumed recovery and acceptance rates are teaching inputs only. For exploratory species, the calculation illustrates research sampling; it does not approve a food use or recommend harvesting.

Illustrative input	Low recovery	Middle	High recovery
Fresh leaf / sample or batch	1 kg	1 kg	1 kg
Dry recovery fraction	15%	20%	25%
Accepted fraction	95%	95%	95%
Accepted dried material	142.50 g	190.00 g	237.50 g



Do not annualise an unobserved cycle

Add the accepted output from each completed harvest in the observation year. Do not multiply the best cut by an assumed number of cuts. If trial results are extrapolated from a plot, show the measured plot area and the calculation; report production roads, buffers and buildings separately from net planted land.

Keep these units separate	Why it matters
Per plant vs per hectare	Stand density, missing plants and non-producing plants change the area result.
Fresh vs dry vs saleable	Water removal, trimming and quality rejection change the quantity that can be sold.
One batch vs one year	Seasonality, establishment and recovery determine completed production cycles.

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Design a field test that answers the question

Recommended validation approach

Keep provenances separate and obtain botanical confirmation. Record flowering, fruit maturity and dry-season response before testing harvest intensity. Reassess identity if material differs from the reference description.

Three decisions to make from the records

1. Link every accession to origin records and diagnostic images.
2. Weigh each proposed product organ separately.
3. Require repeatability and species-specific customer acceptance before expansion.

Record in every trial	Minimum useful detail
Identity and layout	Accession or seed lot; propagation method; planted and measured area; original plant count.
Inputs and conditions	Water delivered; soil test; weather and stress events; labour; actual management changes.
Harvest and recovery	Date; plant age; organ collected; fresh mass; dry mass; rejection and reason.
Output and use	Accepted product mass; intended customer or research endpoint; batch identity; cost per accepted unit.

Species-specific risk controls

1. Using flower colour in marketing without botanical verification.
2. Treating all accessions as genetically uniform.
3. Borrowing growth cycles from another species or climate.

Decision gate

A provenance-led research candidate. Publish identity and evidence status clearly; leave commercial yield unassigned until measured.

FPI application: connect the production trial with the ABC cluster's actual water, handling, processing, logistics and customer capacity. A productive plant trial is only one part of a viable value chain.

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Evidence, image credit and next decision

Assessment conclusion
A provenance-led research candidate. Publish identity and evidence status clearly; leave commercial yield unassigned until measured.

Sources and scope

[S1] Royal Botanic Gardens, Kew. Plants of the World Online: Moringa rivae. Taxonomy, range and life form. Open source
Research method. Targeted review of accepted taxonomy, primary yield studies where available, and image provenance, checked 22 October 2026. An evidence gap means no transferable commercial benchmark was identified in this review; it is not proof that no unpublished or local trial exists. Proposed trials, decision gates and arithmetic examples are FPI analytical guidance, not observations by the cited researchers.

Photograph provenance

Herbarium specimen K005441371. Board of Trustees, Royal Botanic Gardens, Kew. CC BY 4.0. Source record | Licence
The image is a photograph of an authenticated preserved plant specimen, not a living plantation. It supports botanical documentation, not yield. Image resized proportionally for layout; no botanical features generated or replaced. Any adaptation of a share-alike image retains the stated image licence. Image owners and source institutions do not endorse this publication.

Before using the analysis commercially

Replace illustrative inputs with the site's measured results. Confirm the exact botanical species, intended product use, buyer specification and applicable local requirements. Separate field output from accepted saleable product and separate a financial scenario from a verified trading result.

FPI MORINGA YIELD INTELLIGENCE
For farmers, cooperatives, technical teams, buyers and investors assessing production before scale. This brief combines species identity, yield-evidence limits and a practical route to local validation.

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