



## Tabon Tabon Research

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## *Tabon Tabon Research*

**Tabon-Tabon (*Atuna racemosa*)** is a native Philippine fruit widely used in Mindanao, especially in Northern Mindanao and Caraga. Known for its strong, tannin-rich flavor, it is traditionally grated to reduce fishy odors in dishes and add a clean, earthy taste. The pulp contains natural emulsifying properties, making it valuable in local seafood preparations. Though not commonly commercialized, it remains culturally important in regional cooking.

### *Culinary Dishes*

- Kinilaw na Isda (as odor-neutralizer and flavor enhancer)
- Kinilaw na Tuna
- Kilawin na Baboy (regional)
- Mixed Seafood Kinilaw
- Local ceviche-style salads
- Fish marinades



The grated flesh is used to neutralize the fishy taste and the acidity of the raw seafood dish kinilaw (a local dish of raw fish in vinegar or citrus juices).

### *Simple Foods*

- Grated into fresh fish before seasoning
- Mixed with coconut vinegar for dipping
- Added to lime-onion mixtures for curing seafood
- Blended with spices for homemade marinades





### *Drinks (Traditional / Functional)*

- Herbal-infused water using grated Tabon-Tabon
- Fermented tonic mixes (local)
- Bitters-style infusion (household/folk preparation)

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### *Nutrients (General Composition)*

- Tannins
- Dietary fiber
- Antioxidants
- Essential fatty acids (from seeds)
- Vitamins A & C (trace amounts)
- Minerals: calcium, magnesium, potassium

*(Note: Composition varies as Tabon-Tabon is not widely commercially analyzed.)*

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### *Health Benefits*

- Natural antibacterial and deodorizing properties (useful in food preparation)
- Aids digestion due to fiber and tannins
- Antioxidant support for cell protection
- May help reduce inflammation
- Promotes better gut health through mild astringent action
- Traditional use for cleansing fish toxins and improving freshness perception





## *Root Characteristics and Growing Implications*

### *Root System*

- Deep taproot with extensive lateral roots
- Roots moderately thick, capable of accessing deep soil moisture
- Lateral roots help stabilize soil and reduce erosion
- Sensitive to waterlogging; thrives in well-drained soils

### *Growing Implications*

- Deep roots allow resilience in dry periods
- Moderate soil fertility is sufficient; organic matter enhances growth
- Avoid heavy, compacted soils to prevent stunted growth
- Roots may compete with nearby shallow-rooted crops, careful intercropping needed

### *Sunshine and Shade Demand*

- Prefers **full sun** for optimal fruiting
- Tolerates partial shade during establishment
- Dense canopy provides self-shading, which can moderate understorey temperature

### *Tabon-Tabon Growing Characteristics Table*

Characteristic	Description
<b>Tree Height</b>	10–20 meters
<b>Crown Shape</b>	Broad, dense
<b>Growth Rate</b>	Moderate
<b>Root System</b>	Deep taproot with lateral roots
<b>Soil Preference</b>	Well-drained, moderately fertile
<b>Water Requirement</b>	Moderate; tolerates some drought
<b>Sunlight Requirement</b>	Full sun preferred, partial shade tolerated
<b>Shade Tolerance</b>	Medium; tolerates some shade under canopy
<b>Lifespan</b>	50+ years
<b>Fruit Maturity</b>	~6–8 months from flowering
<b>Propagation Methods</b>	Seeds (primary), occasionally grafting
<b>Pests/Diseases Susceptibility</b>	Low to moderate; watch for root rot in poorly drained soils



## Summary

Tabon-Tabon is a medium to large, long-lived fruit tree with a broad canopy and deep taproot system, making it resilient to moderate drought and soil erosion. It thrives in full sun but tolerates partial shade, and requires well-drained, moderately fertile soils. Its moderate growth rate and extensive root system make it suitable for agroforestry and intercropping with careful planning. Tabon-Tabon's ecological and culinary value ensures its continued relevance in Mindanao's local farming systems.



## Varieties (or Lack Thereof) in the Philippines

- There is **no publicly available evidence** for **five distinct commercial varieties** of tabon-tabon in southern Bukidnon.
- Tabon-tabon (*Atuna racemosa* / *Atuna excelsa* subsp. *racemosa*) is mostly wild-harvested, not formally bred.
- A more practical approach for a commercial strategy could focus on **population selection**, **germplasm work**, or **phenotypic classification** rather than cultivar names.
- According to agroforestry literature, this species is commonly **harvested from the wild**, not intensively bred. [Tropical Plants](#)





## *Intercropping Implications*

*Table: Tabon-Tabon (Atuna racemosa) with Value Crops*

Intercrop Tree / Crop	Compatibility	Shade Consideration	Recommended Spacing (m)	Notes / Implications
<b>Coconut (Tall &amp; Dwarf)</b>	Good	Tabon-tabon tolerates partial shade; coconuts provide dappled light	8–10 between coconuts, 6–8 to Tabon-tabon	Deep-rooted; minimal competition if spacing observed; suitable under agroforestry
<b>Calamansi</b>	Good	Full sun preferred, tolerates some shade from Tabon-tabon	3–4	Shallow roots; benefits from partial shade during establishment
<b>Lemon / Lime</b>	Good	Full sun preferred; tolerates moderate shade	4–5	Root competition low; intercropping improves land use
<b>Pomelo</b>	Moderate	Needs full sun; some shade tolerance	8–10	Large canopy may overshadow Tabon-tabon; prune regularly
<b>Rambutan</b>	Moderate / Conditional	Likes full sun; tolerates filtered shade	6–8	Rapid growth may compete for light; careful pruning required
<b>Durian</b>	Not Recommended	Prefers full sun; tall canopy may shade Tabon-tabon	10–12	High light demand; risk of shading and competition for nutrients
<b>Bangkok Santol</b>	Moderate	Likes sun but tolerates partial shade	6–8	Can be intercropped if pruning and spacing observed
<b>American Lime / Persian Lime</b>	Good	Full sun; tolerates partial shade	4–5	Quick-growing companion; minimal root competition

### *Notes on Spacing & Shade:*

- Tabon-Tabon thrives in **full sun but tolerates partial shade**, so moderate canopy overlap from coconuts or citrus is beneficial.
- Avoid intercropping with very tall, dense-canopy trees (durian, mature pomelo) in close proximity as they can excessively shade Tabon-tabon.
- Maintain **at least 6–8 m between Tabon-tabon and other medium trees**, 10 m for tall trees like coconut and pomelo.



## Summary

Tabon-tabon can be successfully intercropped with several **value fruit trees**, particularly **coconut, citrus (calamansi, lemon, lime), and some medium fruits like rambutan or santol**, as long as spacing and light management are observed. Deep-rooted coconuts coexist well, providing partial shade, while sun-loving crops like citrus benefit from filtered sunlight under the Tabon-tabon canopy. Large, dense trees such as mature durian or pomelo can cast excessive shade and compete for nutrients, making them less ideal for close intercropping. Proper planning maximizes **land productivity, fruit diversity, and ecological balance**.

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## Market Demand & Acceptance

Here is a table of important factors playing a significant role in market demand and acceptance.

### Table of Analysis and Factors

Factor	Analysis
<b>Culinary demand</b>	Tabon-Tabon ( <i>Atuna racemosa</i> ) is traditionally used in <i>kinilaw</i> in Northern Mindanao to neutralize fishy odor and add a characteristic flavor. <a href="#">WoWCDO+1</a> There is cultural appreciation for it in local diets, though its use remains niche.
<b>Health / functional market</b>	Research shows high phenolic content and antioxidant properties in tabon-tabon fruit. <a href="#">Asian Journal of Life Sciences+1</a> This could be leveraged for functional food or nutraceutical products.
<b>Local market infrastructure</b>	Valencia City (Bukidnon) has a well-established farmers' market. <a href="#">Bukidnon Online+1</a> As a central trade hub ("center of trade and commerce" in Bukidnon) <a href="#">Wikipedia</a> , Valencia could serve as a collection / aggregation point for tabon-tabon harvested from nearby areas.
<b>Supply chain constraints</b>	Because tabon-tabon is largely wild-harvested rather than widely cultivated, supply may be irregular and limited, which could hamper consistent commercial demand. Also, lack of formal commercialization or value-chain actors (e.g., processors, exporters) is a barrier.



## *Risks & Challenges*

### 1. **Wild-harvest dependence**

Without strong cultivation, overharvesting could deplete local populations, threatening sustainability.

### 2. **Market size risk**

The demand for tabon-tabon is currently niche (mostly for kinilaw); scaling up requires developing new markets or products (processed sauces, extracts).

### 3. **Post-harvest and processing**

Limited infrastructure for processing, storage, or value-add (e.g., juicing, extraction) could lead to losses or quality degradation.

### 4. **Competition & substitution**

Alternative flavoring or odor-neutralizing agents (vinegar, citrus) are readily available and cheaper.

### 5. **Regulation and safety**

For functional-food or nutraceutical uses, regulatory approval (food safety, health claims) is needed, which adds cost.

### 6. **Logistics**

Transporting perishable fruit from remote areas to Valencia or other markets can be costly, especially if volumes are small or inconsistent.

## *Opportunities*

### ➤ **Value-addition**

- Develop tabon-tabon-based sauces, marinades, or kinilaw kits.
- Produce extracts for antioxidant supplements or natural additives.

### ➤ **Agroforestry / orchard development**

- Encourage farmers in Southern Bukidnon (including around Valencia) to purposely cultivate tabon-tabon.
- Integrate into intercropping systems with other fruit trees (coconuts, citrus) to diversify income.







➤ **Market expansion**

- Promote tabon-tabon beyond the local kinilaw market (e.g., in upscale restaurants, specialty food stores).
- Use Valencia City's market infrastructure (farmers' market, traders) as a distribution node.

➤ **Sustainable harvesting programs**

- Establish community-based management to ensure wild populations are not overharvested.
- Develop nurseries and planting material for reforestation or agroforestry.

➤ **Research and branding**

- Leverage its antioxidant, phenolic-rich profile (from published research) [Asian Journal of Life Sciences+1](#) to brand tabon-tabon as a "functional local superfruit."
- Work with universities (e.g., CMU in Bukidnon) to develop improved varieties or cultivation methods.

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*Summary (Southern Bukidnon & Valencia Context)*

In **Southern Bukidnon**, particularly around **Valencia City**, there is potential for **commercializing tabon-tabon**, but it is currently under-utilized and mostly harvested from the wild. The **local culinary demand** (kinilaw) supports a niche market, while **health-oriented products** represent a promising growth area because of the fruit's antioxidant properties. However, risks include supply instability, post-harvest challenges, and limited processing infrastructure.

Valencia City's role as a **trade hub** and its active **farmers' market** make it a strategic point for aggregation and distribution. By promoting **value-added products**, establishing sustainable harvesting or agroforestry plantations, and leveraging research-backed health benefits, tabon-tabon could achieve broader market acceptance. Community-based programs and partnerships could help scale up production while preserving natural populations.