

## Water Stress Risk Assessment

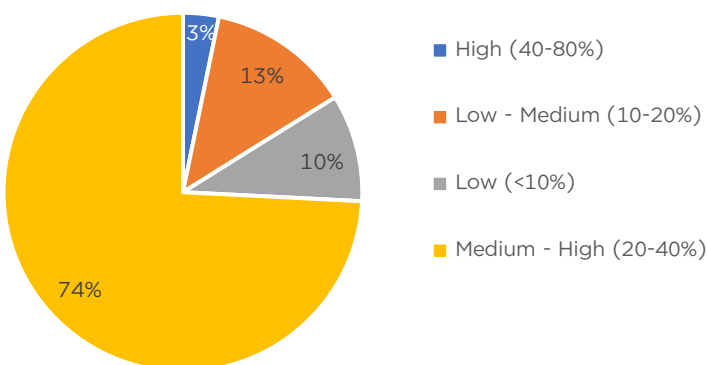
Water-related risks identified using the [Aqueduct Water Risk Atlas 4.0](#), developed by the [World Resources Institute \(WRI\)](#), are fully integrated into Thai Union's environmental risk registers and help shape our long-term water strategy. The assessment covers physical quantity, water quality, and regulatory and reputational risks, providing a comprehensive understanding of current and emerging challenges.

## Scope of Risk Assessment

Thai Union's water risk assessment covers the full value chain, including its own operations, supply chain, and the product use phase, to ensure a holistic understanding of current and future water-related risks.

### Results

- Operations and Product Use Phase



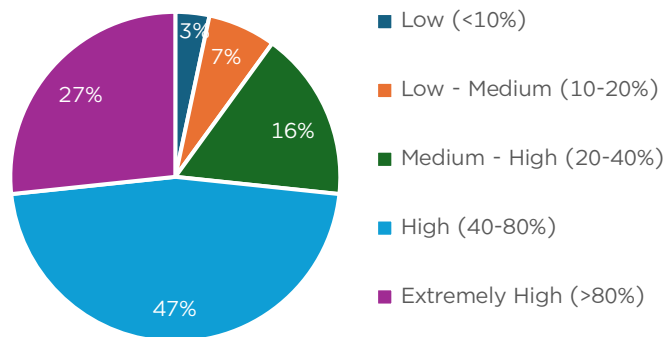
Thai Union conducts a comprehensive water risk assessment across all global operations using the [WRI Aqueduct Water Risk Atlas](#) and [WWF Water Risk Filter](#). The assessment covers **physical quantity, water quality, regulatory risks, dependency and impact risks**, and **local stakeholder impacts**.

In 2024, analysis revealed that **74% of Thai Union's global sites are in areas of medium-high (20-40%) water stress**, 13% in low-medium, 10% in low, and 3% in high water stress zones. Key operational sites in Thailand, including Samut Sakhon, fall within the **medium-high baseline water stress category**, with this risk expected to persist through 2050 under all three modelled scenarios (business-as-usual, optimistic, and pessimistic).

These results **inform** site-level investments, efficiency improvements, and contingency planning **to address regulatory requirements and stakeholder concerns**, particularly in water-stressed regions. Water-related risks are integrated into Thai Union's **Enterprise Risk Management (ERM)** system to support decision-making across short-, medium-, and long-term horizons.

While the product use phase involves limited direct water consumption, Thai Union recognizes potential **downstream risks from the product use phase**, such as **improper packaging disposal**, which may indirectly impact municipal water infrastructure and quality. As part of its **SeaChange® 2030 strategy**, Thai Union is exploring **packaging redesign** and **product lifecycle analysis** to help mitigate these risks.

- **Critical Tier-1 Suppliers**



Thai Union assessed water-related risks in its **critical Tier-1 supply chain**, focusing on regions involved in aquaculture, seafood processing, and agricultural feedstock production. Using the **WRI Aqueduct tool**, **22 suppliers of key agricultural commodities**—such as cattle, maize, palm oil, rice, soy, and sugar—were identified as operating in **water-stressed areas**. However, these commodities represent **less than 1% of Thai Union’s total procurement spend**, as the majority of raw material sourcing is concentrated in seafood products.

The risk assessment evaluated both **dependency-related risks** (e.g., reliance on local freshwater sources) and **impact-related risks** (e.g., wastewater discharge). A common high-risk related to **quantity and quality of water** issues identified across suppliers was **untreated connected wastewater**.

Thai Union integrates water risk mapping tools into its **Sustainable Supply Chain Program** to monitor and manage these risks. The **mitigation and management of water risks** are implemented through supplier engagement including **risk-based site assessments**, **supplier self-assessments**, **third-party audits**, and **capacity-building initiatives** on water stewardship.

Thai Union also considers **future regulatory risks**, such as **lack of access to improved drinking water or sanitation**, and **ESG-related country risk indices** that may influence future compliance obligations. **Education, monitoring, and supplier improvement measures** are in place to address these proactively.

In terms of **stakeholder conflict**, Thai Union evaluates **access to safe drinking water and sanitation** within supplier facilities and dormitories and ensures **supplier compliance with water discharge regulations** to prevent tension with local communities and authorities.