

	RESULTS REPORT WATER RISKS 2025	
	Company: Colombina SA	
	Report issue date: 2025-04-08	

COLOMBINA WATER RISKS FOR THE LA PAILA, TULUÁ AND COLCAUCA PLANTS

In recent years, extreme weather events have increased in intensity and frequency, which is why the Colombina Group has been interested in identifying potential water-related threats that may arise in the operation of its factories. Considering that RISK is the probability that a **threat** will materialize by exploiting an existing vulnerability, Colombina is currently analyzing the external threats of drought and flooding, as well as their vulnerability to them, at its La Paila, Tuluá, and Colcauca facilities .

This document consolidates the threat analyses conducted for Colombina's facilities, analyses available in the following reports:

- Colombina La Paila: GAIA-INF-U1-054-24_RRHH_ Colombina LaPaila_2025
- Colombina Colcauca : GAIA-INF-U1-053-25_RRHH_ Colombina Colcauca_2025
- Colombina Tuluá: GAIA-INF- U1-052-25_HR_ Colombina Tuluá_2025

These results are based on the 2022 National Water Study and the IDEAM ENSO cycle monitoring bulletin . Additionally, the Water Risk Filter and Think Hazard tools were used to analyze threats, allowing companies and investors to assess and respond to water risks (physical, regulatory, and reputational).

DROUGHT ANALYSIS

I. Colombian Plant La Paila

- Drought Threat: The La Paila production plant has a very low drought threat , an observation supported by WWF and Think Hazard tools. The La Paila plant is located between the La Paila and Bugalagrande River watersheds. According to the La Paila River water balance, water supply increases during the months of May and November, allowing demand to be met for most of the year, except in January, July, and August, when deficits are observed. In the case of the Bugalagrande River, there is sufficient water availability in the basin most months, except in August, when demand exceeds supply, which could pose a risk during periods of low availability.
- Drought vulnerability: Historically, drought events have not occurred at the Colombina La Paila facility. The plant has a robust water resource management system that includes a Water Saving and Efficiency Program and four supply sources: two surface sources (La Paila River and Bugalagrande River) and two underground sources (wells VZ88 and VZ89). Additionally, as part of its contingency plan, the Colombina plant has a 500 m³ storage tank to ensure continuous supply in the event of potential water shortages.

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- Recommendation: Implement preventive measures to ensure operational continuity in drought scenarios, thus avoiding potential water shortages that could affect business development. Ensure water reservoirs are full in case of potential drought events.

II. Colombian Plant Colcauca

- Drought Threat: Colcauca production plant has a very low risk of drought, a fact supported by WWF and Think Hazard tools. The Quinamayo River has water availability most of the year. However, during the months of July, August, and September, water supply is very low, but still not below demand.
- Drought vulnerability: Historical records of drought events have not revealed any drought at the Colombina Colcauca facility . To prevent risks from water shortages, the plant has a 350 m³ storage tank and Water Saving and Efficiency Plan that optimizes water use and contributes to its conservation.
- Recommendation: It is recommended to strengthen and continue the anticipated actions to ensure the plant's uninterrupted operation in drought scenarios. This includes optimizing the use of water resources, constantly monitoring supply sources, and the timely activation of contingency plans. This minimizes the risk of water shortages and ensures operational sustainability without compromising productivity or associated ecosystems.

III. Tuluá Colombian Plant

- Drought threat: The Tuluá production plant has a very low drought threat level, a fact supported by WWF and Think Hazard tools. The Tuluá River basin does not experience water shortages at any time of year, as the surface water supply consistently exceeds the municipality's demand.
- Drought vulnerability : Historical records of drought events have not shown any drought at the Colombina Tuluá facility. Furthermore, the plant has a 350 m³ storage tank as a contingency measure to ensure continuity of supply in the event of potential water shortages. It also has water resource management plans, the Water Efficiency Plan, and Cleaner Production strategies, reducing its environmental impact and ensuring operational continuity, especially during periods of water shortage.
- Recommendation: It is recommended to continue with drought prevention strategies to ensure the water supply necessary for the plant's operation.

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FLOOD ANALYSIS

I. La Paila Colombian Plant

- Flood Threat: The La Paila production plant faces a very high estimated flood threat, as supported by WWF and Think Hazard tools, as well as daily bulletins generated by IDEAM, indicating that the La Paila River Basin presents a probability of sudden rise in the Paila River and its tributaries (San José, Brasil, La Esperanza, Sanabria, and San Marcos streams); special attention is paid to the municipalities of Zarzal and Sevilla (Valle del Cauca).
- Flood vulnerability: Historical records of events have not shown any flooding of the Colombina La Paila facilities, thanks to the site design and proper drainage management.
- Recommendation: It is recommended to continue preventive maintenance and drainage control at the Colombina La Paila plant facilities.

II. Colombian Plant Colcauca

- Flood Threat: Colcauca production plant has a high flood hazard rating, supported by WWF and Think Hazard tools. However, it is important to note that the basin is prone to drought, which may affect the frequency of this hazard.
- Flood vulnerability : Historical event records have not shown any flooding of facilities in Colombina Colcauca , this is because in addition to having a low threat, it has adequate drainage management.
- Recommendation: It is recommended to continue preventive maintenance and drainage control at the Colcauca plant facilities to prevent flooding.

II. Tuluá Colombian Plant

- Flood Threat: The Tuluá production plant has a high threat level in the estimation of flood occurrence which is supported by the WWF and Think Hazard tools.
- Flood vulnerability: Historical event records have not shown any flooding of the Colombina Tuluá facilities. This is due to the fact that, in addition to having a low flood risk, it also has adequate drainage management.

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- Colombian Recommendation Tuluá: It is recommended to continue preventive maintenance and drainage control at the plant facilities in Tuluá to prevent flooding.

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