## Rhode Island Department of Environmental Management 2023 Air Pollution Inventory Bakery / Bread



Facility Name	
Signature of Person Completing Form	 Date

For each product, formula or recipe name please provide the following information:

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Product,	Pounds of	Initial amount	Total Ferment	Yeast Spike	Spike time (in
Formula or	Product	of Yeast as a	Time	as a percent	hours)
Recipe Name	produced	Percent of		of flour	,
		Flour			
Example: hard	100,000 lbs	2.4%	3 hours, 30	1%	1 hour
rolls	100,000 103	2.470	minutes 30	1 70	i rioui
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Return Form to: DEM.AirInventory@dem.ri.gov Air Pollution Inventory, Office of Air Resources 235 Promenade Street, Providence, RI 02908-5767 API Form Y

## Instructions for Bakery Form

Emissions of ethanol from baked yeast products are calculated using the following calculation:

VOC emitted (lb/lb of bread produced) = 0.95Yi+0.195Ti-0.51Ys-0.86Ys+1.90

**Initial Yeast (Yi):** This is the initial amount of yeast added to the flour and should be reported as a percent of flour to the nearest tenth of a percent. (Pounds of yeast per 100 pounds of flour in the mix)

**Ferment Time (Ti):** This time is the first yeast action time and begins with the first mixing of yeast with water until the end of the initial ferment time at which time the bread enters the oven or a yeast spike is added. Time should be reported in hours and minutes.

**Yeast Spike**: This is the additional amount of yeast added after the first ferment. This should be reported as a percent of flour to the nearest tenth of a percent.

**Spike Time:** This time begins after the initial ferment time when the yeast spike is added and ends at the end of the final ferment (time at which the product goes into the oven). The time should be reported in hours and minutes