

# Study on Glyphosate residue in wheat products in Japan (2019)



Japan annually imports about 5.3 million tons of wheat from the United States, Australia, Canada, and France. The results of the inspection by the Ministry of Agriculture, Forestry and Fisheries on the shipment from 2008 to today shows over 90% of wheat from the United States and almost all from Canada contain Glyphosate residue (Table 1).

Our daily life is flooded with food made from imported wheat. Nonetheless, we have no clear idea about how much glyphosate remains in the wheat products we eat every day. Thus, this survey was conducted to identify the frequency of the Glyphosate detection and its concentration. The result shows that glyphosate can be detected even in our common wheat products.

Table.1 Glyphosate residue in imported wheat

	No. of Tested	No. of Positive	Detection(%)	No. of exceeded MRL
USA	139	135	97	0
Australia	37	6	16	0
Canada	75	75	100	0
France	15	2	13	0

\* Analyzed by Ministry of Agriculture, Forestry and Fisheries, 2017, “Results of analysis of residual pesticides of rice and wheat”, [http://www.maff.go.jp/j/syouan/nouan/kome/k\\_beibaku/](http://www.maff.go.jp/j/syouan/nouan/kome/k_beibaku/)

Table.2 Pesticide Residue in Wheat Products (2019)


	Product name	Type	Manufacture	Wheat Prd.	Glyphosate (ppm)	AMPA (ppm)
1	 Hokkaido Whole Wheat Flour HARUYOKOI	Whole wheat flour	Tomizawa co.,Ltd.	Japan	N.D.	N.D.
2	 Allbran fruits mix	Cereal	Kellogs Japan Co.	Unknown	N.D.	N.D.
3	 Pasta	Pasta	ASAHI Co.	Canada	0.09	N.D.
4	 Whole Wheat Flour 100% for beard	Whole wheat flour	Tomizawa co.,Ltd.	Canada etc.	1.05	Tr
5	 Whole Wheat Flour(hard)	Whole wheat flour	Pioneer Co.,Ltd.	Canada and USA	0.88	Tr
6	 Durum wheat flour	Wheat flour	Pioneer Co.,Ltd.	Canada and USA	0.03	N.D.
7	 Pasta Ohmy 1.7mm	Pasta	NIPPN	Unknown	0.07	N.D.
8	 GABAN BlackSpaghetti	Pasta	GABAN Co.,Ltd.	Unknown	0.11	N.D.
9	 Pasta	Pasta	CORNO Co.,Ltd.	Canada	N.D.	N.D.
10	 Wheat Flour(soft)	Wheat flour	Okumoto Flour Milling Co., Ltd.	Unknown	0.02	not tested
11	 Wheat Flour(hard)	Wheat flour	NIPPN	Unknown	0.37	N.D.
12	 Wheat Flour(for TENPURA)	Wheat flour	Showa Sangyo Co., Ltd.	Unknown	N.D.	N.D.
13	 Nissin Whole Wheat Flour(bread)	Whole wheat flour	Nisshin Foods Co., Ltd.	Unknown	1.1	N.D.
14	 Nissin Wheat Flour(soft)	Wheat flour	Nisshin Foods Co., Ltd.	Unknown	N.D.	N.D.
15	 Nissin Wheat Flour(for cooking)	Wheat flour	Nisshin Foods Co., Ltd.	Unknown	N.D.	N.D.
16	 Nissin Camellia Wheat Flour(hard)	Wheat flour	Nisshin Foods Co., Ltd.	Unknown	0.09	N.D.
17	 CGC Wheat Flour(soft)	Wheat flour	NIPPN	Unknown	N.D.	N.D.
18	 Lowson select Wheat Flour(soft)	Wheat flour	NIPPN	Unknown	N.D.	N.D.
19	 Nissin Wheat Flour(for TEMPURA)	Wheat flour	Nisshin Foods Co., Ltd.	Unknown	N.D.	N.D.
20	 Seven eleven Wheat Flour(for TEMPURA)	Wheat flour	NIPPN	Unknown	N.D.	N.D.
21	 Hokkaido Whole Wheat Flour HARUYOKOI	Whole wheat flour	Tomizawa co.,Ltd.	Japan	N.D.	N.D.
22	 Canada Wheat Flour(hard)	Wheat Flour	Showa Sangyo Co., Ltd.	Canada	0.17	N.D.
23	 Ohmy Wheat Flour(hard)	Wheat Flour	NIPPN	Unknown	0.18	N.D.
24	 Whole Wheat Flour from SATOYAMA	Whole wheat flour	Porano farm	Japan	N.D.	N.D.

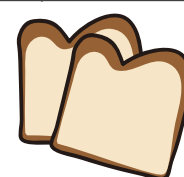
Table.3 Pesticide Residue in Bread(2019)

		Product name	Manufacture	Lot.	Glyphosate (ppm)	AMPA (ppm)
1		Bread Haruno Megumi(Whole flour)	Pasco Shikishima Co.	P2 / DBH	0.15	N.D.
2		Bread Double Soft(Whole flour)	Yamazaki Baking Co.,Ltd.	YZM F B	0.18	N.D.
3		Bread Whole flour Doom	Yamazaki Baking Co.,Ltd.Group		0.17	N.D.
4		Whole flour bread Kenko Shikou	Maruju Co.,Ltd.		0.23	N.D.
5		Bread Double Soft(Normal)	Yamazaki Baking Co.,Ltd.	YS2	0.10	N.D.
6		Bread Yamazaki Chou Houjun	Yamazaki Baking Co.,Ltd.	YM1	0.07	N.D.
7		Bread Pasco ChouJuku	Pasco Shikishima Co.	P3 / BYG	0.07	N.D.
8		Bread Pasco ChouJuku(Japanese wheat)	Pasco Shikishima Co.	P1 / EWP	N.D.	N.D.
9		Bread Honzikomi	Ito-Yokado Co.,Ltd. Kami-Itabashi	+FM U	0.07	N.D.
10		Bread Asakara Sakkuri Pan	Tobu Store Maenocho	TE/ DTG	0.08	Tr
11		Bread Japanese Wheat	Maruma Pan Co.	-	N.D.	N.D.
12		Bread Organic Wheat Bread	Sachsen Co./TOTHO CO-OP	-	N.D.	N.D.
13		Bread Japanese(Tokachi) Wheat Bread	Sachsen Co./TOTHO CO-OP	-	N.D.	N.D.
14		Snack Bread AMPANMAN Mini Bread	Ito-Yokado Co.,Ltd. Kami-Itabashi	+FCH	0.05	N.D.
15		Snack Bread AMPANMAN Mini Bread (banana)	Tobu Store Maenocho	+FCH	Tr	N.D.

Method

LC-MS/MS : Nexera XR / Shimadzu LCMS -8050 / ESI / MRM  
Column : InertSustain C18(metal free column) 3um, 2.1x150mm

LOQ : Glyphosate 0.01 mg/kg, AMPA 0.5 mg/kg



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## [About Nouminren Food Research Laboratory]

The establishment of the WTO in 1995 further pushed Japan to open its agricultural market and import more food, with a serious impact on the safety of food and agriculture.

Under this circumstance, as an institution independent from the government and corporations, NOUMINREN (Japan Family Farmers Movement) Food Research Laboratory on May 20, 1996 was created to protect the safety of food and people's health, thanks to tremendous support from Nouminren members and people concerned about safety of food.

Although at the start, its equipment is insufficient, the lab gradually increased its capacity: the equipment to analyze Genetically Modified Organism (GMO) was introduced in 1999 and the apparatus to find heavy metals in 2003. These updates enabled the lab to work effectively to protect people's health and the safety of food.

Currently the laboratory is well known among the public and greatly influential to the Japanese government for its policy making. It is the lab, formed by the people, works for the people.



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