



Grain Nutrient Analysis NZ

2026 Harvest

Ever wondered about your crop's nutrient status?

Grain nutrient analysis measures the final results of all the decisions you have made in growing your crop. FAR is again supporting growers who wish to submit grain and seed samples for nutrient analysis from the 2026 Harvest. The reporting will be a little different this year.

Growers will still be able to use the information to:

- Understand nutrient off take to help manage soil nutrient status and applications for future crops
- Compare the nutrient status of your crop with others harvested in 2026
- Review the final results of your season's nutrient management and evaluate changes to your nutrient strategy for coming seasons

What's involved:

- Growers collect a grain or seed sample at harvest & submit to Hill Lab
- Samples are analysed for the 12 essential macro & micro nutrients
- Growers provide some paddock information on soils, fertiliser and yield to FAR

How will reporting be completed for Harvest 2026?

- Growers will be able to calculate offtakes via a simple spreadsheet report
- Seasonal nutrient ranges will be reported at the end of the season to all growers – you will be able to compare your individual results to these, but individual benchmarking reports that have been provided in previous seasons will not be available.

What Crops can be accepted?

- All Cereals
- Linseed
- Oilseed rape
- Peas

What does it cost?

- Growers will be charged for lab analysis costs directly by Hill Labs, approx. \$105/sample for Cereals & Peas, \$176/sample for Oilseed rape & Linseed

To find out more or submit a sample contact:

FAR 03-345-5783, donna.lill@far.org.nz

YEN Nutrition NZ, 2024

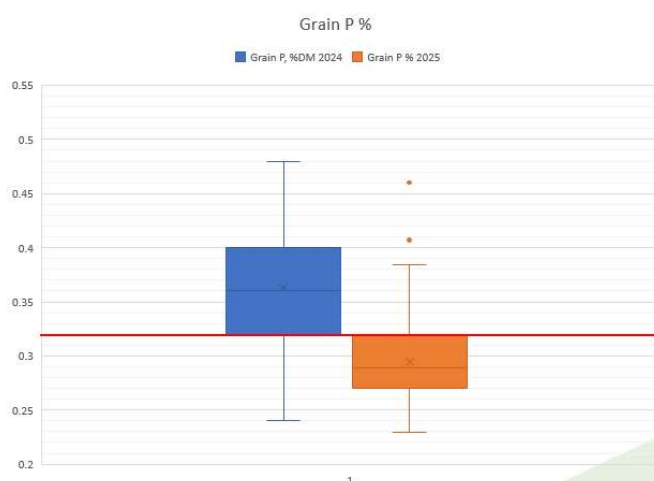
The harvest 2024 project involved 50 growers and 126 samples. FAR submitted samples from six varieties of winter feed wheat grown at the Wakanui CPT site. The table below shows the Macro-nutrient offtakes in the grain for the different samples. Offtake information is also calculated for micro-nutrients.

Table 1: From the YEN Nutrient Offtake report. Differences in nutrient offtake of macro-nutrients for six different varieties of winter wheat grown at the FAR Wakanui CPT site for Harvest 2024. Straw was returned to the paddock in this example.

Variety	Yield (t/ha)	Offtakes in grain (kg/ha)					
		N	P	K	S	Mg	Ca
KFW2201	19.3	348	55	79	23	18	10
Starfire	14.6	259	36	51	17	13	5
Whopper	17.1	299	54	79	20	16	7
Graham	17.1	301	50	70	20	16	7
Firelight	17.9	333	61	85	23	20	8
Voltron	16.2	277	36	52	18	13	6

YEN Nutrition NZ, 2025

The Harvest 2025 project involved 63 growers and 266 samples. As more years of data are gathered results between seasons can be compared across all samples as well as between individual grower paddocks. The box and whisker plot below show the range of grain phosphorus concentrations for all wheat samples from the 2024 and 2025 Harvest projects.



NZ 24 Average 0.37%

NZ 25 Average 0.29%

Critical Value 0.32%



Figure 1: Grain P% for wheat samples submitted to the 2024 Harvest Pilot (n=103) and the 2025 Harvest (n=158). The critical value of 0.32% is referenced from Rollett & Sylvester-Bradley (2019).