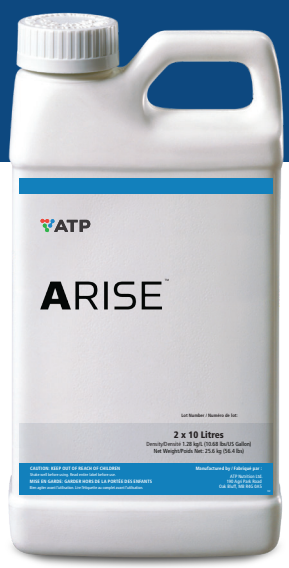
ARISE™

Nutrition | Biostimulant

Timing: Soil

Nutrient Type: Macronutrients

Formulation: Liquid



Drive critical early season rooting– add Arise to your Starter Fertilizer.

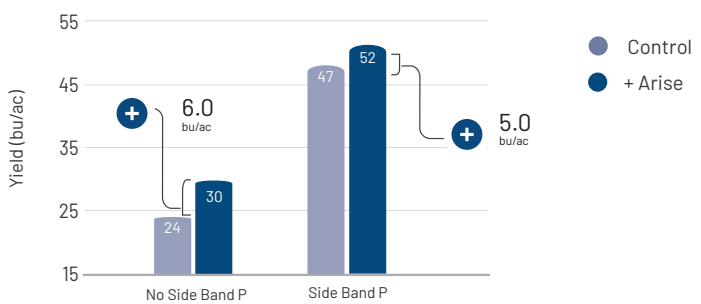
Arise™ is an ortho-phosphorus based starter fertilizer that caters to the early season demands of the seedling.

- Provides a "pop up" effect to drive critical early season rooting.
- Low salt index for greater seedling safety.
- Immediate plant available phosphorus.
- Compatible with 28-0-0 (UAN) and the Micro-Che line of micronutrients.

Proven Agronomic Performance

- By providing immediate plant available phosphorus in furrow, Arise increased wheat yields by an average of 6 and 5 bu/ac, when compared to no additional phosphorus or when combined with a side band of phosphorus, respectively.
- To achieve this increase in yield, Arise was applied at 10 lbs P_2O_5/ac.
- To determine the optimum application rate needed for plant development and yield potential, it is recommended to conduct soil and plant tissue sampling.

Advantage of Starter Phosphorus



Summary of 24 Wheat trials. Arise applied at 10 lbs P205/ac.

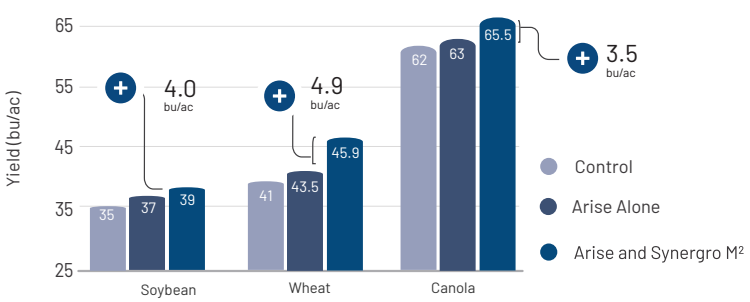
Take Arise to the next Level - Add a novel biostimulant Synergro M²

Add Synergro M² to Arise to maximize nutrient - use efficiency and further enhance early season growth.

Synergro M² is a biological metabolite product that activates the root rhizophere to:

- Increase rooting and vegetative plant growth
- Reduce the impact of abiotic stress
- Improve crop performance – drives yield and enhances quality

Replicated trials demonstrated that a soil application of Arise with Synergro M² has a strong agronomic and synergistic response.



Small plot replicated trial conducted in Portage, MB in 2019 and 2020. Arise (starter liquid Phosphorus) was applied at 3 gal/ac in furrow. Synergro M² was applied at 250 ml/ac.

Guideline for Maximum Rate of Arise for In-Furrow Application*

The maximum in-furrow rate of Arise to be applied and not have crop injury is dependent on **soil moisture, soil texture and row spacing**. A dry seedbed poses the highest risk for seedling injury, while a moist seedbed is generally safer. In terms of soil texture, heavier (high CEC) soils are generally safer than sandier (low CEC) soils. Finally, the wider the row spacing, the lower the rate that Arise can be applied per acre. The table below captures these 3 variables (row spacing, soil moisture and texture) to highlight the maximum safe rate of Arise to be applied in-furrow for a wide range of crops.

Crop	Maximum In-furrow Rate of Arise (L/ac)									
	Row Spacing									
	8″		10″		15″		22″		30″	
	DS**	MH***	DS	MH	DS	MH	DS	MH	DS	MH
Wheat	69.7	139.3	55.6	111.3	37.1	74.2	-	-	-	-
Barley	171.5	343.0	137.4	274.4	91.6	182.8	-	-	-	-
Alfalfa	26.1	52.2	20.8	41.6	14.0	28.0	-	-	-	-
Oats	51.5	103.0	41.3	82.5	27.6	54.9	-	-	-	-
Canola	20.4	41.3	16.7	32.9	11.0	22.0	-	-	-	-
Flax	34.1	68.5	27.3	54.9	18.2	36.3	-	-	-	-
Soybean	-	-	13.2	26.5	8.7	17.8	6.1	12.1	4.5	8.7
Beans	-	-	13.2	26.5	8.7	17.8	6.1	12.1	4.5	8.7
Corn	-	-	-	-	98.4	200.6	68.1	136.3	49.2	100.3
Sunflowers	-	-	-	-	32.6	65.1	22.3	44.3	16.3	32.6

* Data sourced from IPNI and South Dakota Cooperative Extension Services
** DS refers to the maximum safe in furrow rate of Arise for dry, sandier (low CEC) soils.
*** MH refers to the maximum safe in furrow rate of Arise for moist, heavier (high CEC) soils .

Product Recommendations

- For the best early season performance, Arise should be applied in furrow.
- Arise can be combined with Micro-Che, Transit-S, and/or Blocker to drive early season vigor.
- Arise can be combined with UAN, 3-10-10 and ATS, but it is recommended for these blends to be side banded in the soil.
- A jar test is always recommended to confirm compatibility of Arise with other fertilizers and pesticides.
- Synergro M^2 can be combined with Arise and should be applied in furrow to drive early season vigor and productivity.
- To view the Arise and Synergro M^2 SDS, product labels and to learn more information on compatibilities, visit www.atpag.com.

Product	Analysis	Rate	Timing	Form
Arise	7-22-4	10-20 L/ac	Soil	Liquid
Synergro M^2	Biological Metabolite Consortium	250 ml/ac	Soil	Liquid

ATP
RESTORE THE BALANCE

At ATP, we believe a proactive, science-based approach to restore the balance between plant and soil health is the single most effective way to deliver the genetic potential of the crop. We challenge the status quo by utilizing agtech to monitor and drive productivity.

info@atpag.com | 1.877.538.5511 | www.atpag.com

V1 09/2021