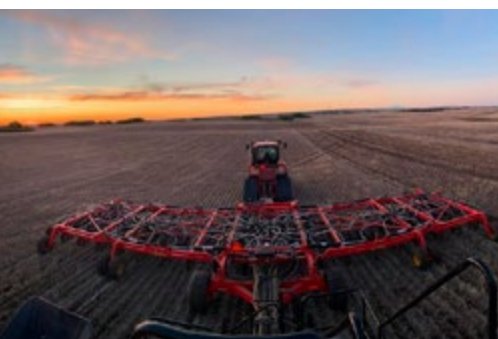




start finish 2[®]

A comprehensive liquid fertilizer
system powered by Bio-K[®] to
maximize your crop's potential

2026-2027



Maximizing Fertilizer Efficiency

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Maximizing
Fertilizer
Efficiency



since 1973



Premium Liquid Foliar Fertilizer - *Powered by ALPINE Bio-K®*

- Complete N-P-K fertility with: Zn, Mn, B, and Cu
- Most effective and efficient source of potassium with ALPINE Bio-K® technology



Manufactured in Canada for Canadian Farmers

visit us online: alpinepfl.com
or call: 1-844.655.BIOK (2465)





About ALPINE®

ALPINE is a liquid fertilizer brand that has revolutionized farming practices since 1973. ALPINE offers high quality precision-placed, seed-safe liquid starters and the latest technologies to maximize crop potential.

Flexible Applications from

- In-Furrow
- Banded
- Fertigation
- Strip-Till
- Sidedress
- Foliar

7 Production Facilities

- New Hamburg, ON
- Belle Plaine, SK
- Marion, OH
- Corydon, IN
- Garretson, SD
- Red Oak, IA
- St. Gabriel, LA

Liquid Fertilizer Technologies



ALPINE® In-Furrow Starters: The Basics

Why do farmers use in-furrow starters?

- Starter is essential for quick, more uniform emergence to help set maximum yield potential through precision placement
- Larger root systems
- Improve phosphorus utilization early in the season when environment is not conducive (i.e. cold, wet, low biological activity)
- A soil test is NOT required to use a starter other than for rate determination
- Makes a perfect carrier for other products (i.e. micronutrients, organic acids, biologicals)

Why are ALPINE in-furrow starters the BEST option?

- Seed safe
- Balanced N-P-K orthophosphate/ Bio-K® formulations
- Low salt
- Non-corrosive
- True solution
- Dedicated/supportive staff
- EDTA micronutrients, humic acids, and crop protection products
- Increased efficiency due to placement
- Clean, easy handling solutions
- High solubility
- Neutral pH
- Storability

The ALPINE® Bio-K® Story

THE PROBLEM

An alarming trend of declining potassium levels and lack of availability at key demand times.

THE RESULT

With the combination of higher yields, newer genetics, production practices, reduced tillage, and decreasing potassium levels in your soil, farmers are jeopardizing plant structure, plant health and stress tolerance which negatively affects yield potential, decreases harvest efficiency and profitability.

THE SOLUTION



ALPINE innovative potassium technology Bio-K will address these costly issues. ALPINE Bio-K is a proven technology that is more efficient and readily taken up by the plant better than any other potassium source in the market today.

Farmer Benefits

- Multiple application methods
- Non-corrosive to equipment
- Mixability with crop protection products
- Product flexibility

Crop Benefits

- Seed safe
- Improves nutrient use efficiency
- Improves plant health and stress
- Highest K solubility
- Reduces water loss and wilting
- Increases photosynthesis
- Balanced plant nutrition

Strategic Applied Fertilizer: Reallocation

Maximizing Return on Investment (ROI) begins with prudent use of crop nutrient; placing the most effective form of nutrient at the most impactful site.

Shifting inputs from less effective products to more efficient products positioned where the plant can make better use of the input adds value to both production and spending efficiency.

When considering reallocation, one must position first all the applications that offer the greatest impact on the crop then finish up the nutrient budget with the less effective products such as broadcast dry granule fertilizers.

High impact treatments target periods in growth when nutrient is needed most or for critical activities such as establishment, early vegetation and plant vigor, sound plant structure and reproduction and finally, crop fill and maturation.

ALPINE's Maximizing Fertilizer Efficiency programs are designed to enhance plant growth and development, meeting critical stages of nutritional demand, amplifying a plant's genetic potential.

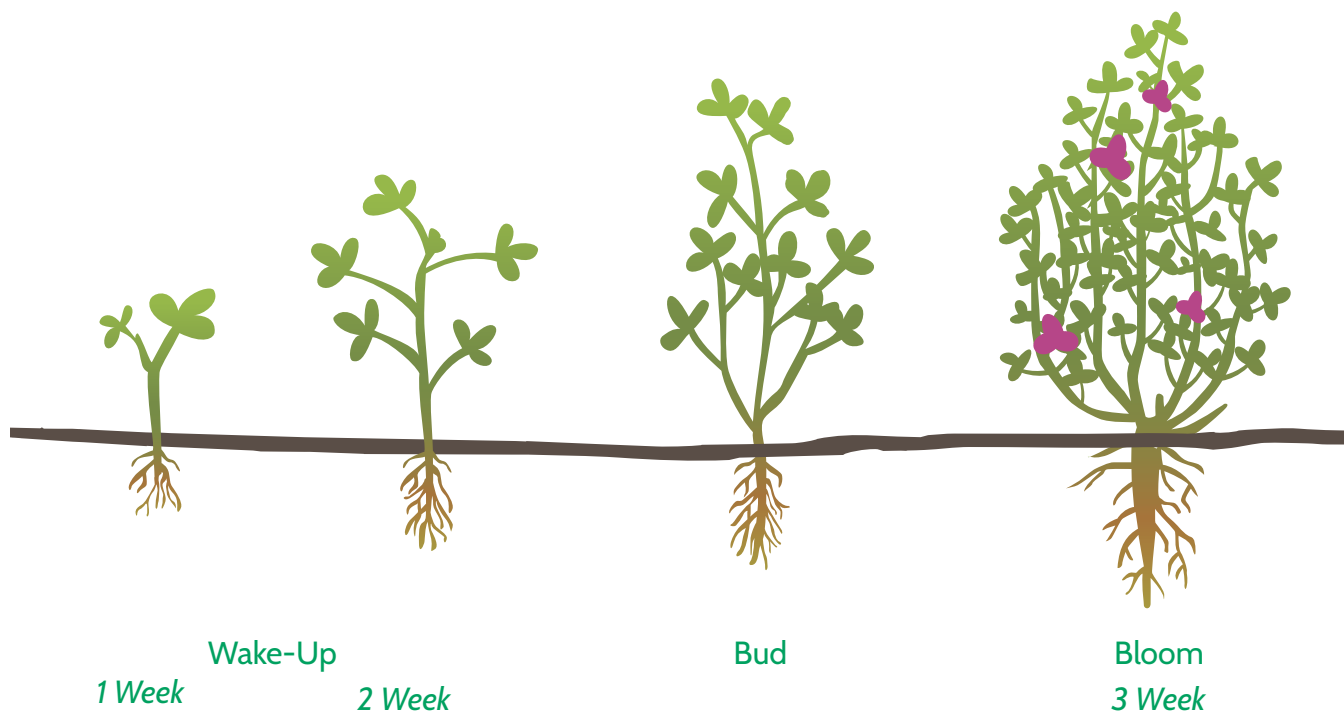
Generations of Canada's farmers have used ALPINE liquid fertilizers because it is a quality brand they can trust. ALPINE Bio-K products offer the latest technology advancements farmers need to take their crops to the next level.



The ALPINE
Bio-K System
for Maximizing Crop Yields

Simple yet effective,
profitable yet sustainable,
Start2Finish®
is a comprehensive liquid
fertilizer system to maximize
your crop's potential.

Maximizing Alfalfa Yields

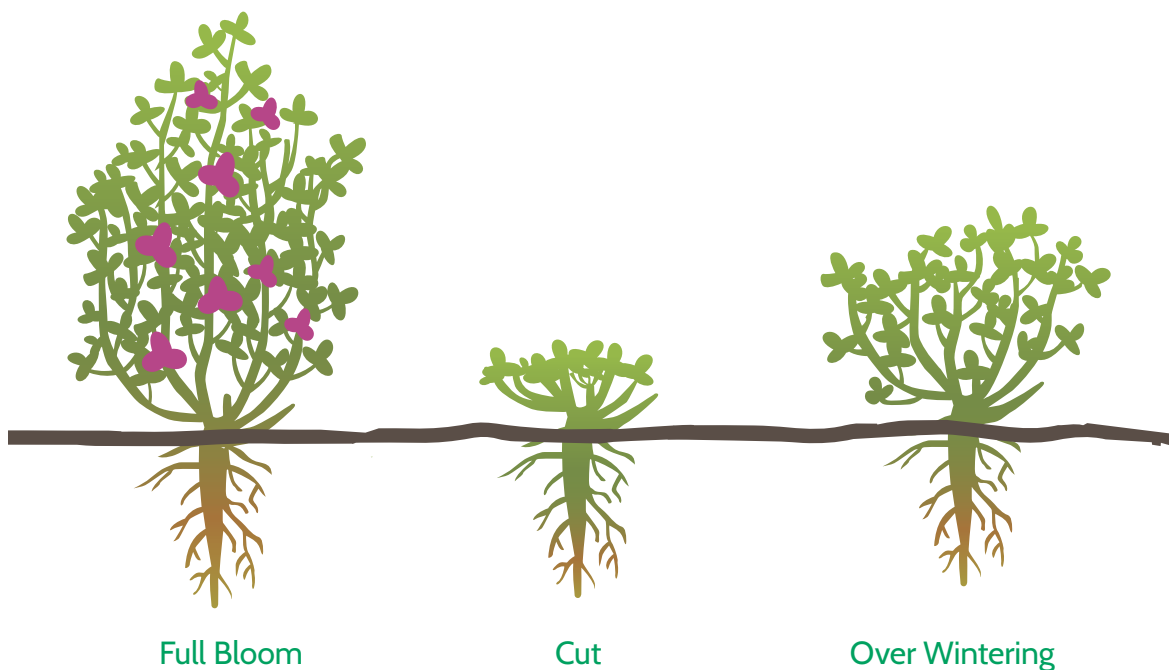


Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	15–20 L/Ac	
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	3–4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® MoCo	150 ml/Ac	
Herbicide Foliar Application	ALPINE F18 Max™	1 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

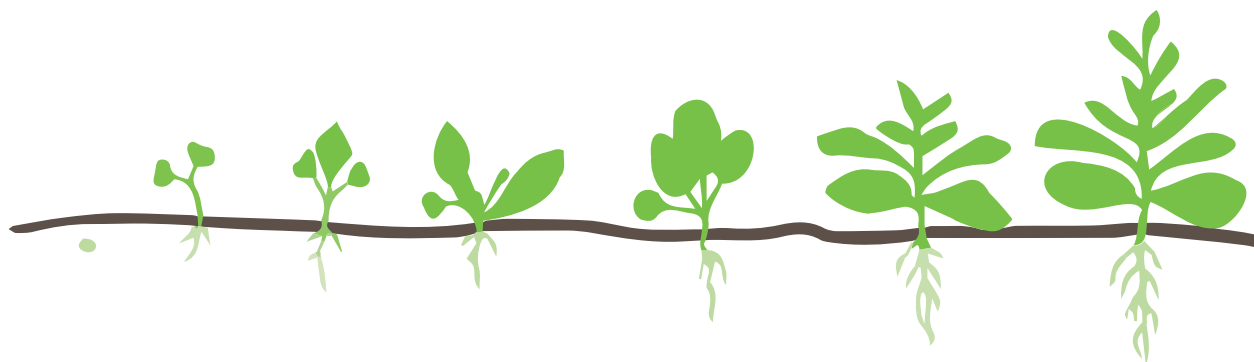
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*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Established Spring Foliar	ALPINE K20-S®	3–4 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac.	
Established Regrowth Alfalfa Foliar 5–10 Days After Each Cutting	ALPINE K20-S®	3–4 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Maximizing Canola Yields



Seeding

Cotyledon - Two Leaf

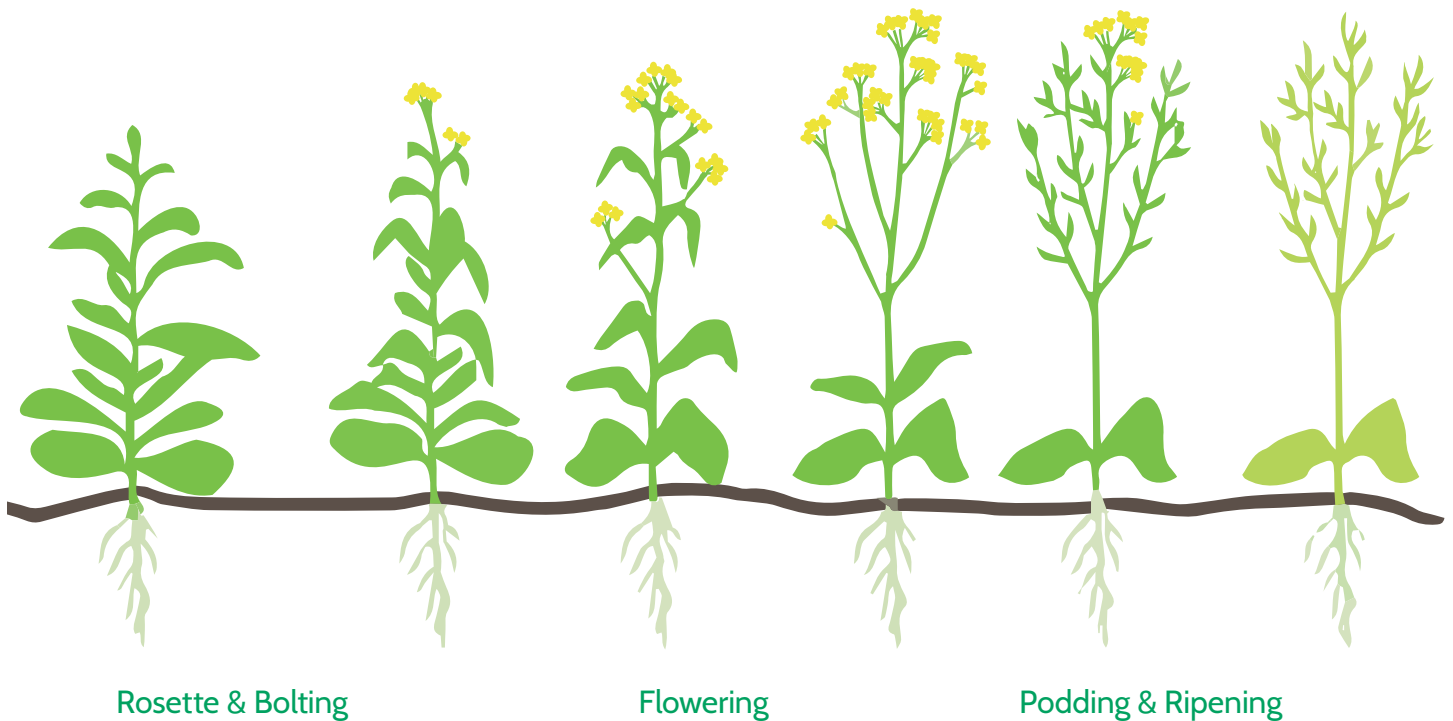
Four – Six Leaf

Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	14–24 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	3–4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
Herbicide Foliar Application 2 leaf- Full Cabbage	ALPINE F18 Max™	1 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

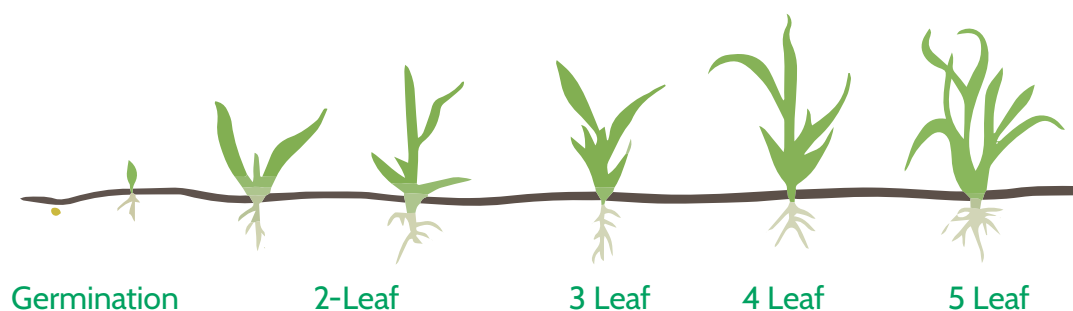
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*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Top Dressing <i>(As applicable)</i>	ALPINE K19-S®	3–4 L/Ac	
	ALPINE Soilmax™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
Early to 25% Flower Fungicide Timing	ALPINE K20-S®	3–4 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Maximizing Cereal Yields

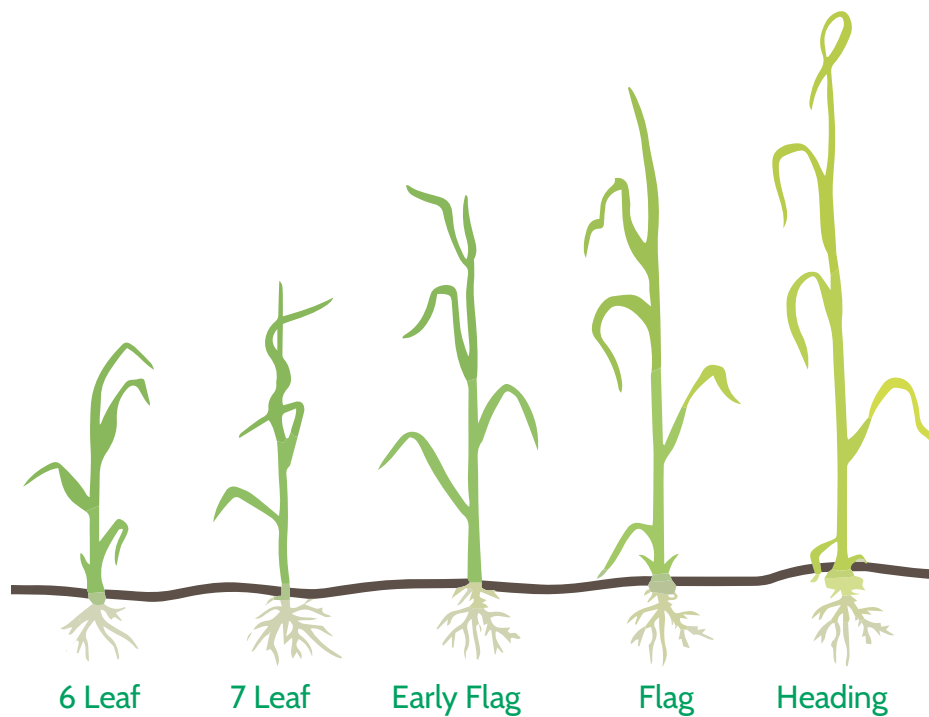


Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	14–24 L/Ac	
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	2–4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® Zinc	0.5–1.0 L/Ac	
Top Dressing (As applicable)	ALPINE K19-S®	4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® B	0.5 L/Ac	
Herbicide Foliar Application	ALPINE F18 Max™	1 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

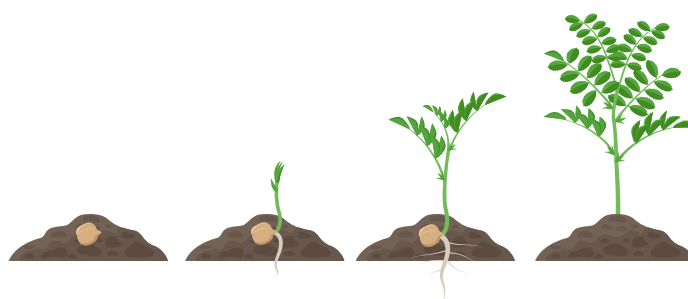
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*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Flag Leaf Fungicide Foliar Applications	ALPINE K20-S®	2–4 L/Ac	
	ALPINE G22® (West CA)	1 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac.	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	
Heading Fusarium Foliar Application	ALPINE K20-S®	2 L/Ac	
	ALPINE CRN-S®	4–8 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Maximizing Chickpea Yields



Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	15–20 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® MoCo	150 ml/Ac	
Herbicide Foliar Application	ALPINE F18 Max™	1 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

It is always recommended that a jar test be done when adding to other fertilizer or chemicals. Always read and follow the pesticide labels when considering tank mixing pesticides with fertilizer products. CAUTION WHEN MIXING WITH UAN: The temperature of UAN being below 50°F, use sufficient water to provide thorough mixing of solution. A ratio of 1:1 to ALPINE K19-S® is recommended.

*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Application at early flowering/pod set	ALPINE K20-S®	3–4 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Maximizing Corn Yields

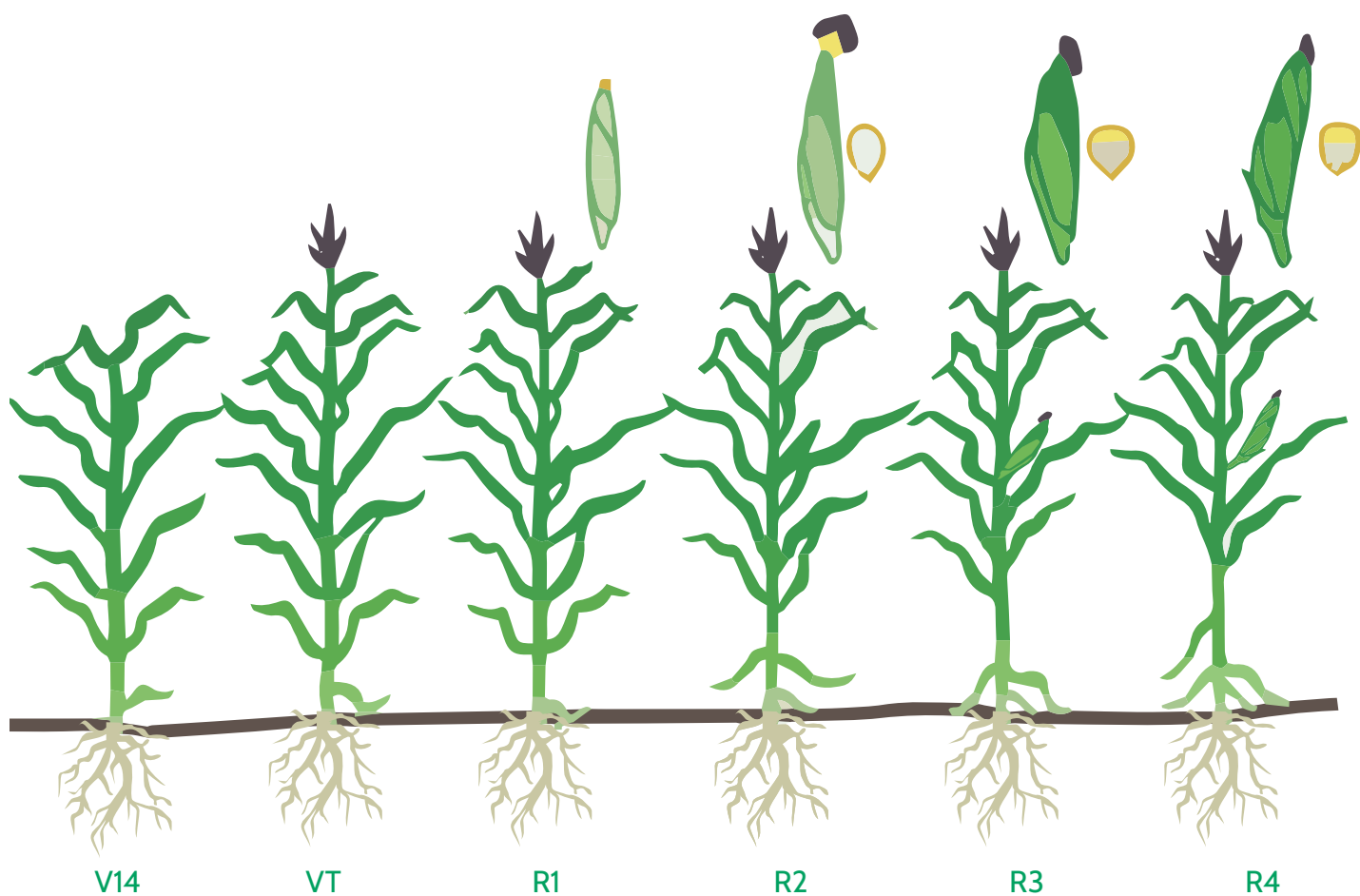


Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	14–24 L/Ac	
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	2–4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® Zinc	0.5–1.0 L/Ac	
Top Dressing or side dressing <i>(As applicable)</i>	ALPINE K19-S®	4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® B	0.5 L/Ac	
Herbicide Foliar Application	ALPINE F18 Max™	1 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

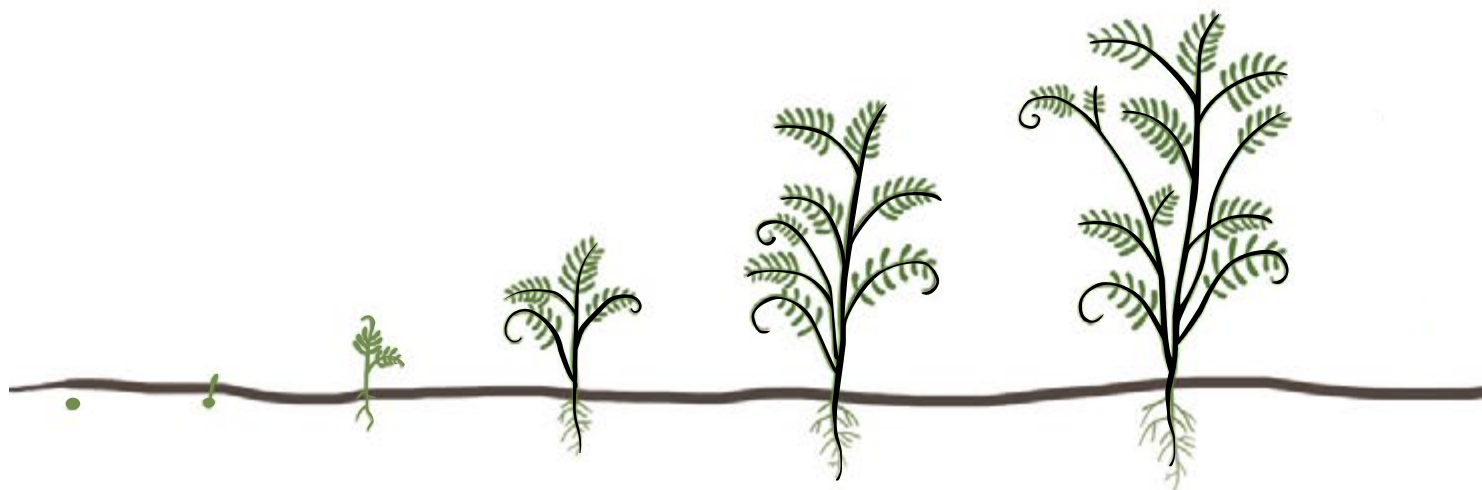
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*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Applications	ALPINE K20-S®	2–4 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	
Tasseling Foliar Application	ALPINE K20-S®	2 L/Ac	
	ALPINE CRN-B®	4–8 L/Ac	
	ALPINE SRN®	4–8 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
Fertigation	ALPINE K19-S® or	4 L/Ac	
	ALPINE K24®		
	ALPINE MicroBolt® B	0.5–1.0 L/Ac	

Maximizing Lentil Yields



Root/Shoot Emergence

1-2 Leaf/
3-4 Nodes

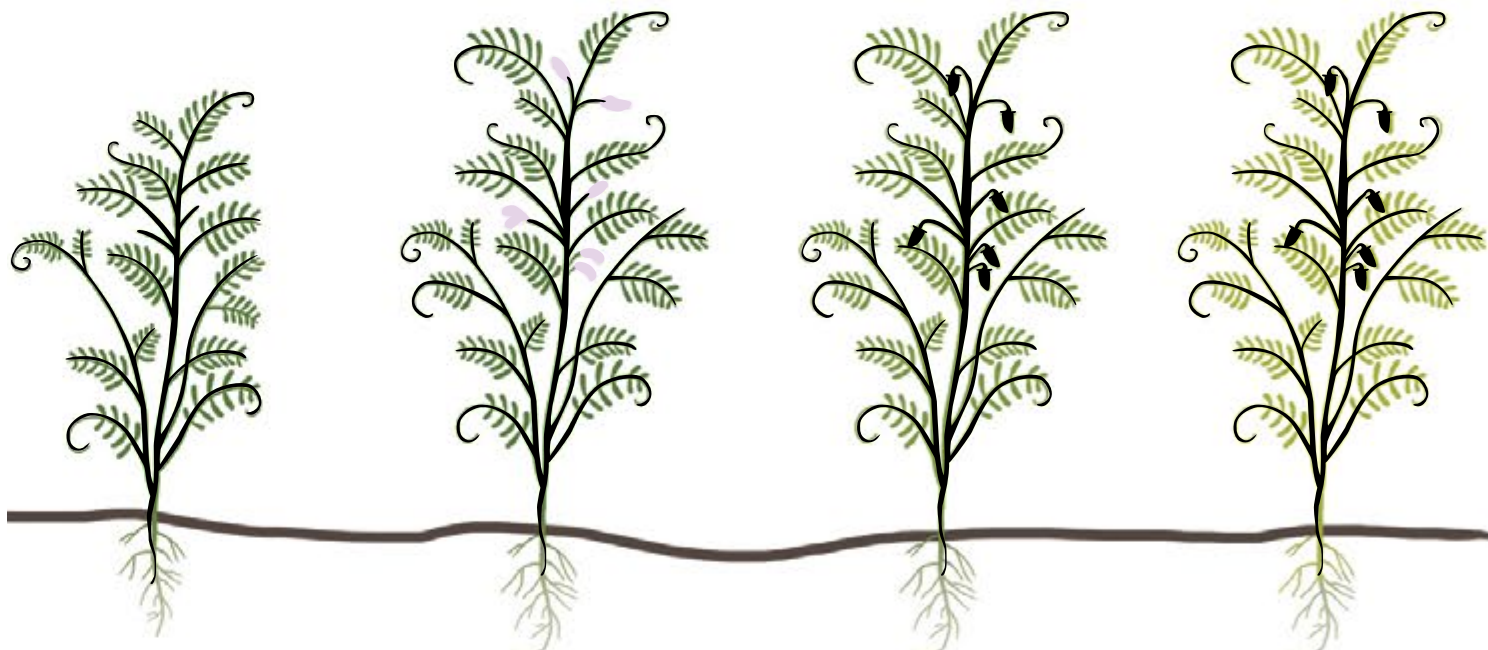
3-4 Leaf/
5-6 Nodes

Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	14–24 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	3–4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® MoCo	150 ml/Ac	
Herbicide Foliar Application 2 leaf- Full Cabbage	ALPINE F18 Max™	1 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

It is always recommended that a jar test be done when adding to other fertilizer or chemicals. Always read and follow the pesticide labels when considering tank mixing pesticides with fertilizer products. CAUTION WHEN MIXING WITH UAN: The temperature of UAN being below 50°F, use sufficient water to provide thorough mixing of solution. A ratio of 1:1 to ALPINE K19-S® is recommended.

*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



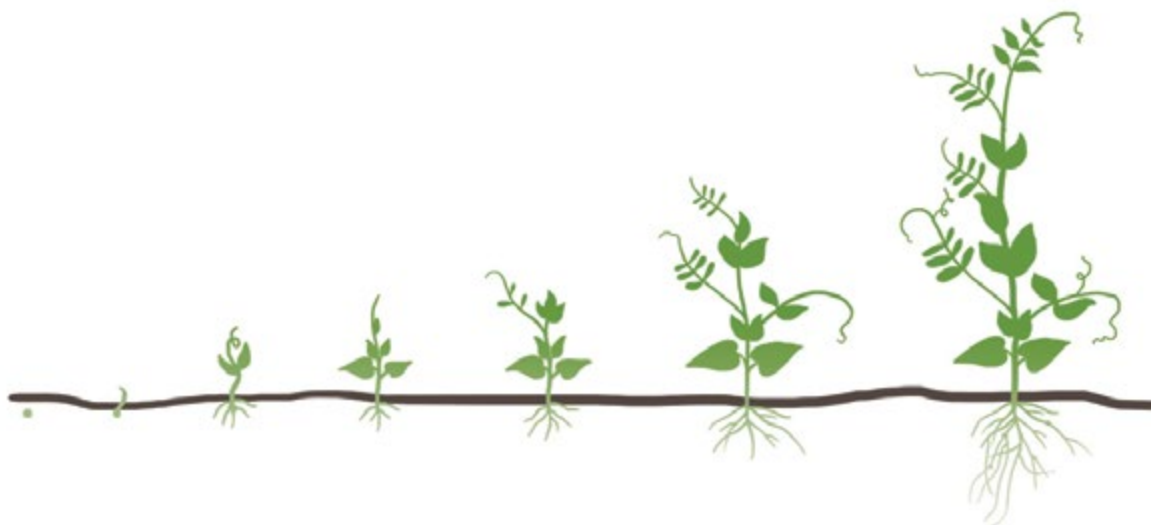
5-6 Leaf/
7-8 Nodes

Flowering/
Pod Set

Maturity

Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Application at 20% Flowering	ALPINE K20-S®	3–4 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Maximizing Peas Yields



Root/Shoot
Emergence

1-2 Leaf/
3-4 Nodes

3-4 Leaf/
5-6 Nodes

Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	15–20 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® MoCo	150 ml/Ac	
Herbicide Foliar Application	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE F18 Max™	1 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

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5-6 Leaf/
7-8 Nodes

Flowering/
Pod Set

Maturity

Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Application at early flowering/pod set	ALPINE K20-S®	3–4 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Maximizing Potato Yields



Seed

Establishment

Stolon Initiation

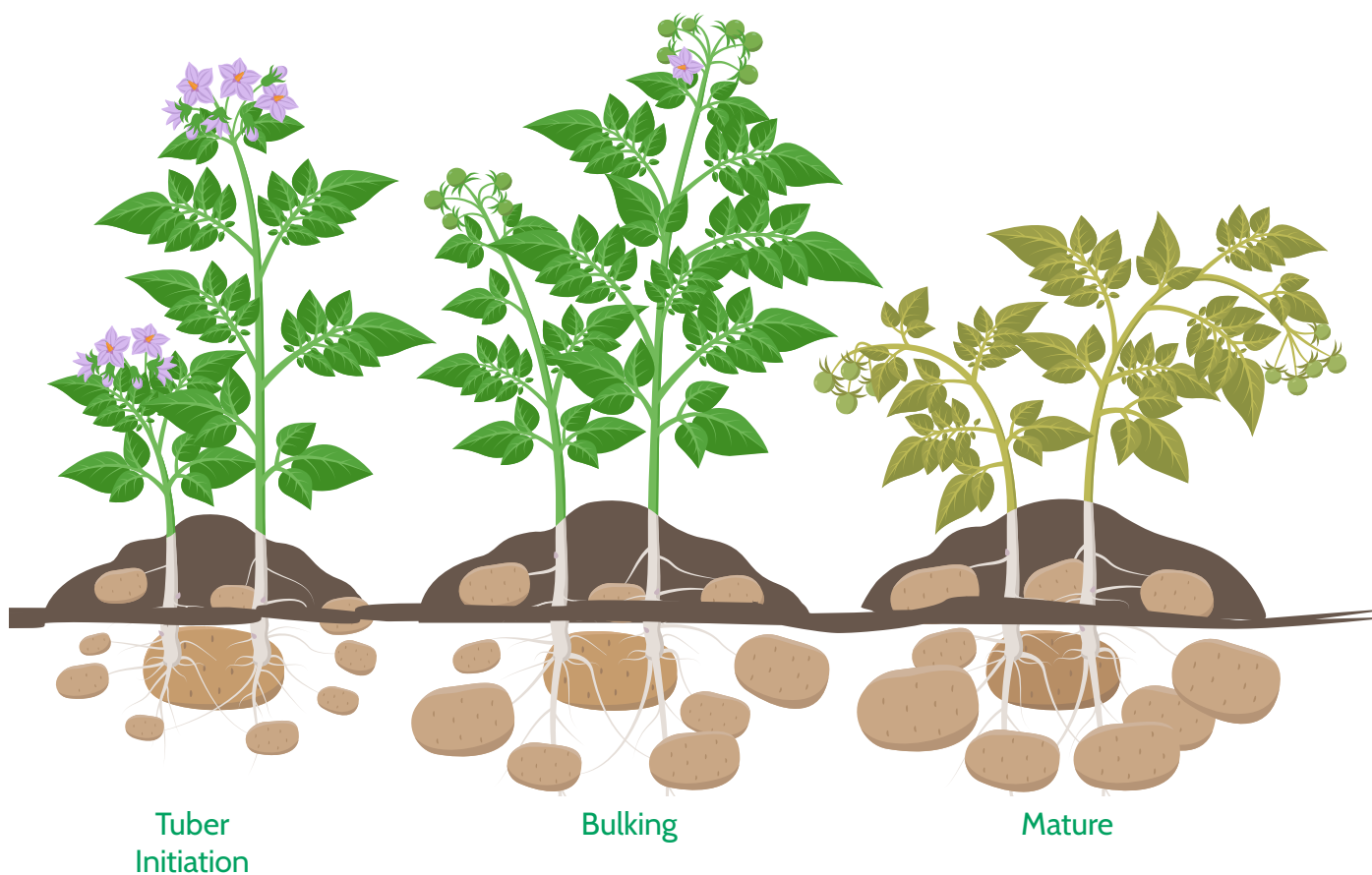
Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	38–76 L/Ac	
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	4–8 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® Zn	1–2 L/Ac	
Herbicide Foliar Application	ALPINE F18 Max™	1 L/Ac	
	ALPINE G22® (West CA)	2–4 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

It is always recommended that a jar test be done when adding to other fertilizer or chemicals. Always read and follow the pesticide labels when considering tank mixing pesticides with fertilizer products.

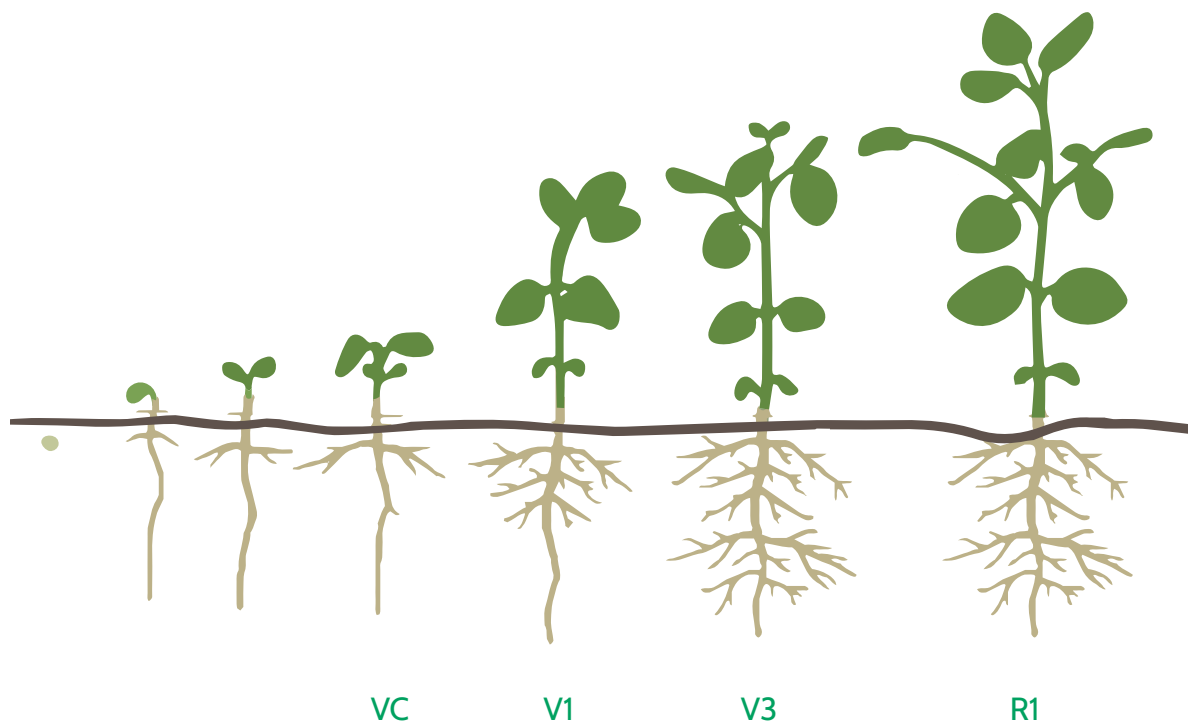
CAUTION WHEN MIXING WITH UAN: The temperature of UAN being below 50°F, use sufficient water to provide thorough mixing of solution. A ratio of 1:1 to ALPINE K19-S® is recommended.

*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Top Dressing (As applicable)	ALPINE K19-S®	4 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® B	0.5 L/Ac	
Tuber Initiation & Hook	ALPINE K24®	8.0 L/Ac	
	ALPINE F18 Max™	1.0 L/Ac	

Maximizing Soybean Yields



Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	10–16 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	2–3 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® MoCo	150 ml/Ac	
Herbicide Foliar Application	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE F18 Max™	1 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

It is always recommended that a jar test be done when adding to other fertilizer or chemicals. Always read and follow the pesticide labels when considering tank mixing pesticides with fertilizer products. CAUTION WHEN MIXING WITH UAN: The temperature of UAN being below 50°F, use sufficient water to provide thorough mixing of solution. A ratio of 1:1 to ALPINE K19-S® is recommended.

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R3

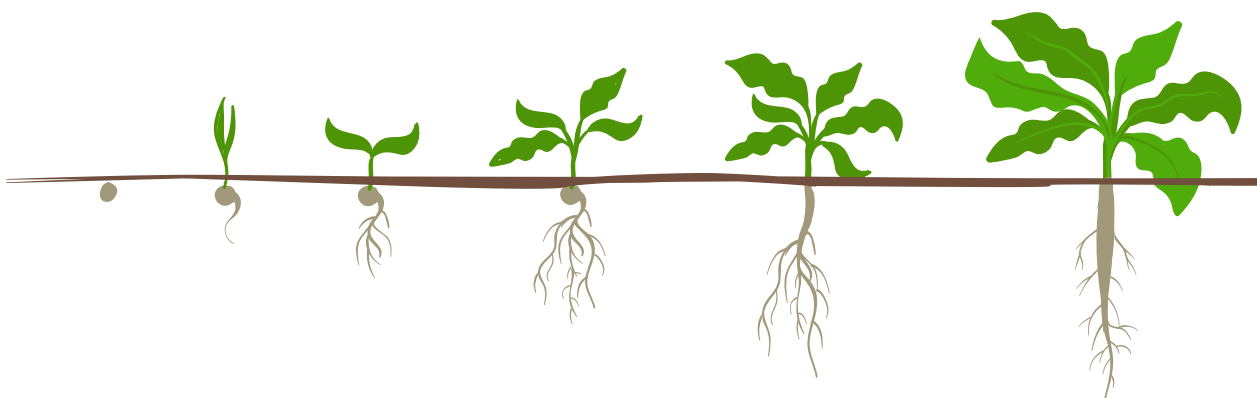
R4

R6

R7

Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Applications	ALPINE K20-S®	2–4 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Maximizing Sugar Beet Yields



Germination

Leaf
Development

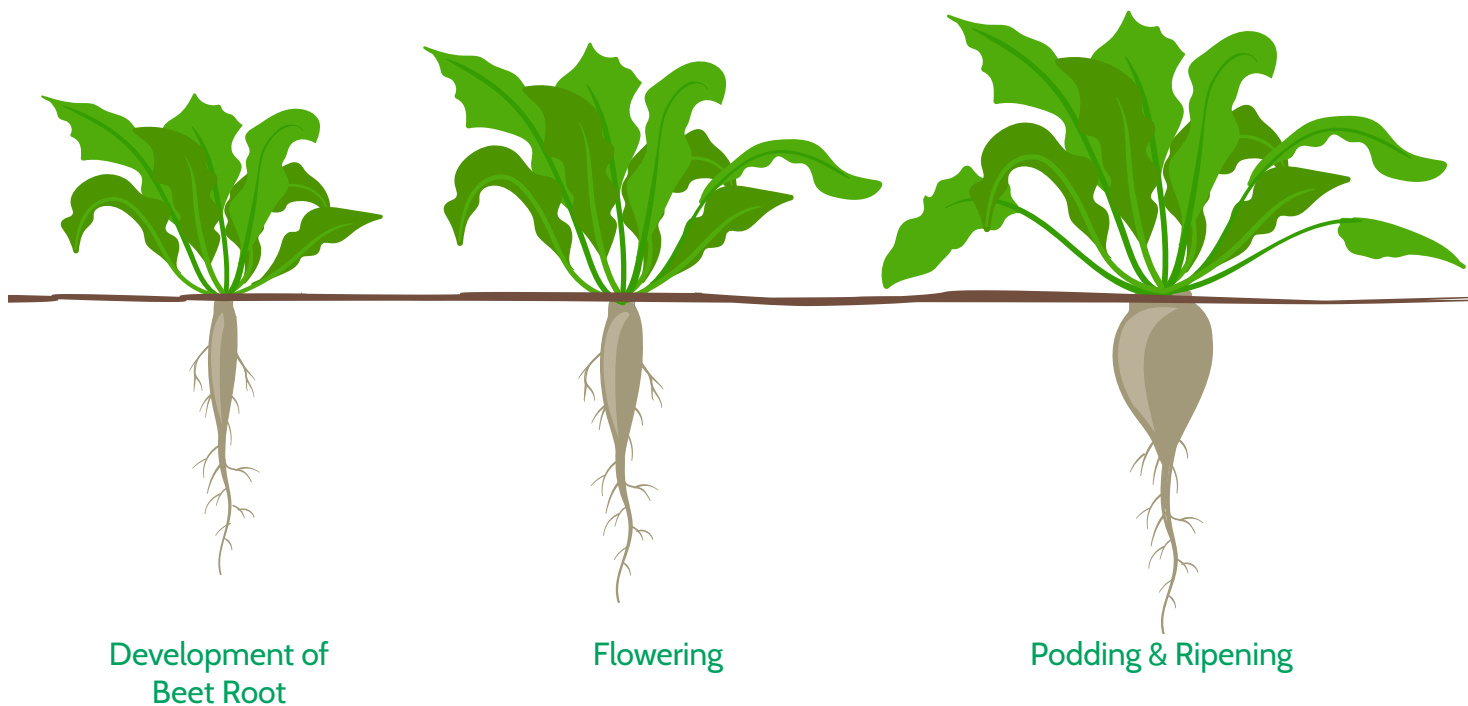
Rosette Growth

Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	10–16 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	2–3 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® Zn	0.5–1 L/Ac	
Herbicide Foliar Application	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE F18 Max™	1 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

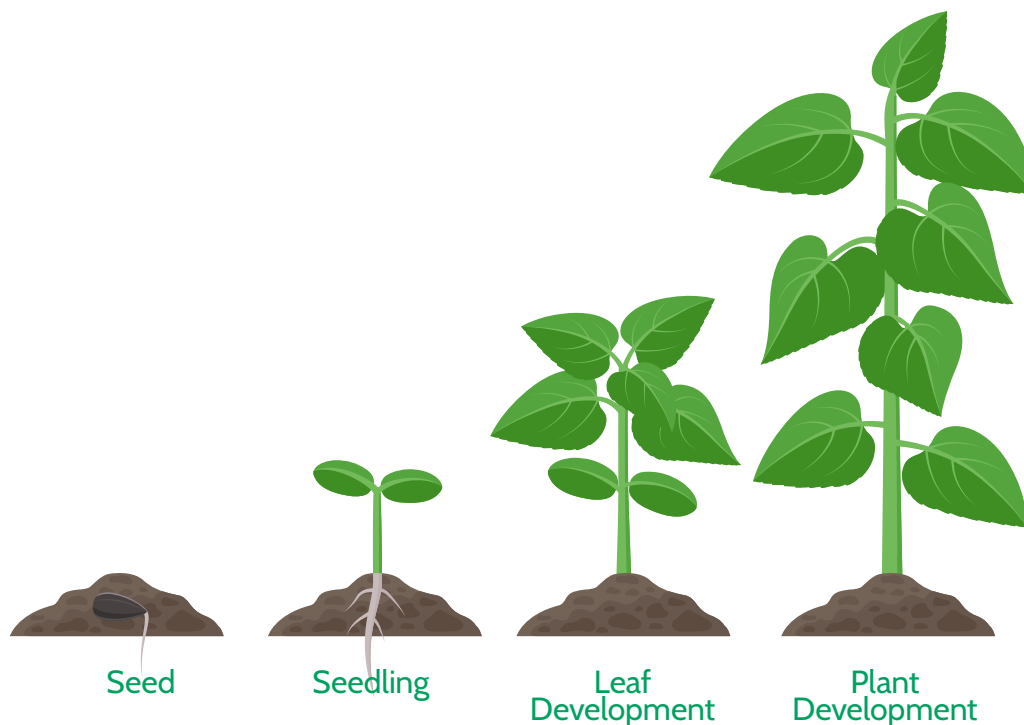
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*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Applications	ALPINE K20-S®	2–4 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

Maximizing Sunflower Yields



Crop Stage	Product	Rates	Agronomics Discussions
Seeding In-Furrow	ALPINE G22® (West CA)	10–16 L/Ac	<i>(Consult PRS sheets as well as your Agronomist on total in-furrow P rates)</i>
	ALPINE G241-S® (East CA)		
	ALPINE K19-S®	2–3 L/Ac	
	ALPINE Soilmax™	2 L/Ac	
	ALPINE MicroBolt® Zn	0.5–1 L/Ac	
Herbicide Foliar Application	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE F18 Max™	1 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

It is always recommended that a jar test be done when adding to other fertilizer or chemicals. Always read and follow the pesticide labels when considering tank mixing pesticides with fertilizer products. CAUTION WHEN MIXING WITH UAN: The temperature of UAN being below 50°F, use sufficient water to provide thorough mixing of solution. A ratio of 1:1 to ALPINE K19-S® is recommended.

*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.



Bud
Development

Open Flower for
Pollination

Seed
Development

Crop Stage	Product	Rates	Agronomics Discussions
Fungicide Foliar Applications	ALPINE K20-S®	2–4 L/Ac	
	ALPINE G22® (West CA)	1–2 L/Ac	
	ALPINE Envoy™	0.5 L/Ac	
	ALPINE MicroBolt® B	0.25–0.5 L/Ac	
	ALPINE MicroBolt® MoCo	200 ml/Ac	
	ALPINE MicroFusion® B	0.5–0.75 L/Ac	

ALPINE® Product Reference

Premium Products	Product Agronomics	
ALPINE G22® (West CA)	- Provides crops with a quick and uniform plant germination and emergence - Improved early season plant health maximizes soil fertilizer efficiency	Ultimately results in maximizing yield potential
ALPINE G241-S® (East CA)	- Provides crops with a quick and uniform plant germination and emergence - Improved early season plant health	- Maximizes soil fertilizer efficiency - Ultimately results in maximizing yield potential
ALPINE K24	- Highest concentration of Bio-K technology in the industry - Contains a versatile source of K for growers requiring higher K levels	Allows applications of K during critical growth stages, maximizing yield potential
ALPINE K19-S®	- Most versatile Bio-K technology product available - Compatible with ALPINE G22, 10-34-0, UAN, and liquid urea	- Allows applications of K & S during critical growth stages maximizing yield potential - Maximizes nitrogen use efficiency as well as feeding soil microbial life
ALPINE K20-S®	- Unique potassium and sulfur enriched premium foliar fertilizer - Contains nutrients to enhance plant reproduction as well as protein development when applied at fungicide timing	Provides a significant return on investment when used on all crops
ALPINE F18 Max™	- Unique micronutrient enriched premium foliar fertilizer - Contains proprietary organic acids, compatibility agents and higher level of micronutrients	Provides a significant return on investment when used on all crops
ALPINE CRN-B®	- Efficient form of nitrogen - Provides slow even release of nitrogen - Reduces leaching and volatilization - Provides excellent foliar absorption	- Compatible with other liquid fertilizers - Carrier for crop protection programs
ALPINE CRN-S®	- Efficient form of nitrogen - Provides slow even release of nitrogen - Reduces leaching and volatilization - Provides excellent foliar absorption	- Compatible with other liquid fertilizer - Carrier for crop protection programs - Supplements sulphur requirements
ALPINE SRN®	- The most efficient form of nitrogen available - Provides slow even release of nitrogen for a period of 30 days when foliar applied	- Reduces leaching and volatilization Provides excellent foliar absorption - May be used as a carrier for crop protection chemicals

Additional application rates are optional. Consult your ALPINE Sale Representative or Agronomist.

It is always recommended that a jar test be done when adding to other fertilizer or chemicals. Always read and follow the pesticide labels when considering tank mixing pesticides with fertilizer products.

CAUTION WHEN MIXING WITH UAN: The temperature of UAN being below 50°F, use sufficient water to provide thorough mixing of solution. A ratio of 1:1 to ALPINE K19-S® is recommended.

*PRODUCTS MAY NOT BE AVAILABLE IN EVERY PROVINCE.

Micronutrients	Micronutrient Agronomics	
ALPINE MicroBolt® Zn	• Zinc is crucial in flower formation. i.e. canola • Zinc acts like “antifreeze” in the plant to give early and late frost protection • Zinc controls the synthesis of many plant growth regulators • Animals deficient in zinc require twice as much feed to attain the same weight	• Zinc is unavailable in high pH soils • Zinc improves germination rate and plant vigor • Zinc is necessary for starch formation and proper root development • Zinc is also essential for seed formation and maturity
ALPINE MicroBolt® B	• Vital to the growth and development of the plant, without adequate boron, new growth ceases • It is necessary in the pollination & seed production stages	• Boron is essential for maintaining a balance between sugars and starches • Small amount of boron is beneficial to plants but too much can be toxic to plants
ALPINE MicroBolt® Mn	• Manganese assists iron in chlorophyll production • Catalyst in oxidation-reduction process • Manganese affects lignin building qualities and is critical in preventing lodging and disease • Manganese is crucial when growing oats • Glyphosate has been linked to manganese deficiencies	• With glyphosate translocating within the root mass of weeds and RR crops thus leaking into the root rhizosphere, this immobilizes manganese which is required for the growth of many plants • Without manganese, there is no seed production (i.e. seedless grapes, oranges have no manganese)
ALPINE MicroBolt® MoCo	• Transforms nitrogen into amino acids • Allows legumes to symbiotically fix atmospheric nitrogen	• Catalyst in oxidation-reduction process
ALPINE MicroFusion® Mn	• In-Furrow chelated micronutrient package for cereal, corn and canola crops, where Zn is required to maintain a P:Zn balance. • Balanced nutrients for supporting photosynthesis • Includes Fulvic Acid to enhance plant uptake and increased metabolism	• Designed to accompany ALPINE Bio-K Foliar products when addressing tissue sample deficiencies. • Foliar application for all crops deficient in Zn, with a balance of Mn & Cu supporting leaf strength and plant health.
ALPINE MicroFusion® Zn	• Designed to accompany ALPINE Bio-K Foliar products to increase nutrient use efficiency. • Includes Fulvic Acid to enhance plant uptake and increase metabolism.	• Balanced nutrients essential for chlorophyll production and photosynthesis enhancement
ALPINE MicroFusion® B	• Powered by ALPINE Enduro-Shield® • A purified, high quality, marine macroalgae extract product and contains growth promotant and bioactive compounds aiding in stress mitigation	• ALPINE EDTA chelated micronutrients are 100% available to the crop

Special Use	Organic Acid Agronomics	
ALPINE Soilmax™	• Soil and fertility catalyst designed to improve soil health and maximize utilization of nutrients • Contains humic acid, which is processed using proprietary technology	• Designed to be used on a wide range of crops
ALPINE Envoy™	• Designed to stimulate and promote early root development when seed applied and overall plant development when foliar applied.	

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