NUTRIENT MANAGEMENT PRACTICES Benefits of FOR ALFALFA PRODUCTION sulphur in

alfalfa

 Required for amino acid and protein synthesis. Improves nodule development. Increases chlorophyll production. **Essential for healthy** green plants.

Sustains high alfalfa yields.

SULPHUR the 4th major crop nutrient

Symptoms of sulphur deficiency in alfalfa

- As sulphur is not mobile in plants, younger leaves appear pale green or yellow. Uniform chlorosis may occur as a sulphur deficiency progresses.
- Plants may appear stunted and spindly.
- Reduced shoot development.
 Reduced nodulation.
- Sulphur deficiency is more common in sandy soils with low organic matter.



Sulphur deficiency may appear as stunted plants that appear pale green or yellow. Courtesy: IPNI



Stunted, light green, and spindly alfalfa plants (right) as a result of sulphur deficiency. **Courtesy: Field Crops News**

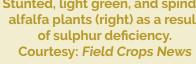


Sulphur deficiency symptoms in alfalfa include chlorosis, or yellowing, of the uppermost leaves. **Courtesy: UC Cooperative Extension**



Sulphate-containing fertilizers can be used when alfalfa needs sulphur (S) for immediate crop uptake. Elemental S will become available to the crop depending on the degree of S oxidation into sulfate during a cropping season.

To ensure the selected fertilizer contains S, check the label for details on S content.



ight Rate

Apply 22 – 34 kg S/ha (20 – 30 lbs S/ac) depending on

soil fertility and observed

S deficiency in previous

Consult your local crop

advisor to determine right

the S content of available

and target yields.

rate for your farm based on

fertilizer, current soil fertility,

seasons.



Sulphur can be applied by incorporating it with other fertilizers at establishment or broadcast after a cut. Avoid application of S fertilizers during periods of very high rainfall to avoid leaching loss of applied S.



Surface and incorporation of soluble sulphate fertilizers are equally effective.

Granular elemental S requires dispersion of the S particles within the soil for oxidation to take place.





