

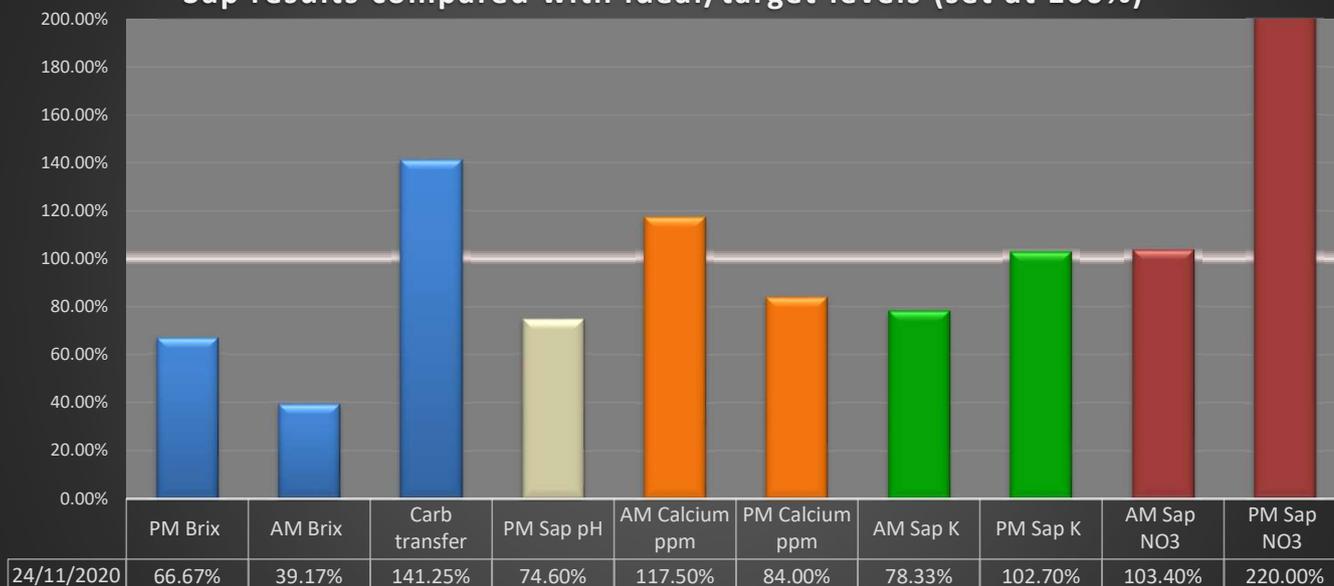
Sap Analysis



Customer:	Sample		
Sample description	Green 1		
Sampled (AM):	24/11/2020	Sampled (PM):	23/11/2020
Time of sample (AM):	0630	Time of sample (PM):	1630
Plant/Crop:	Couch	Sample ref:	XYZ241120G1

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Sap results compared with ideal/target levels (set at 100%)



BRIX

Peak carbohydrate production (PM Brix) is below target at 67%, indicating a less than adequate level of carbohydrate production and a deficiency in the minerals which support this process. The level of carbohydrate transfer is above target at 141% of target.

pH

The PM pH level (4.7) is significantly below the optimal level of (6.2 - 6.4).

Calcium

The AM Calcium levels are 118% of target, whilst the PM level is below target at 84%. The variation (uptake) from AM to PM 29% of target and low. The results indicate that there is an inadequate supply of Calcium in the plant and it is being taken up slowly from the soil. As Calcium has a role in the uptake and mobilisation of other minerals, adequate levels need to be maintained within the soil and plant.

Potassium

The AM Potassium level is below target at 78% whilst the PM level is in line with target at 103%. The variation (uptake) from AM to PM (280%) is quite good and currently at 152% of target. The result indicates good plant demand, root activity and an adequate supply from the soil.

Nitrate

Both AM and PM Nitrate levels are above target, 103% and 220% respectively. The variation (uptake) from AM to PM (401%) is well above target, once again indicating good plant demand, root activity, and an adequate supply from the soil, although a review of Nitrogen based inputs is suggested to avoid an oversupply situation.

Nutrition

The key deficiencies indicated by the results are **Phosphorus**, and possibly **Manganese** which are affecting the production of carbohydrates. Given that Calcium levels are reasonable, there is a possibility that a deficiency of **Magnesium** may be affecting sap pH levels. To correct the deficiencies foliar applications of **Manganese Fulvate @ 300ml/1000m²** and **Brix Builder @ 500ml/1000m²** will assist with Phosphorus and Manganese deficiencies. Foliar applications of **MicroMag@50ml/1000m²** are recommended to assist with building Magnesium and adjusting sap pH. On an on going basis, the addition of **Maintain Foliar Complex** on a regular (monthly) basis will ensure sufficient trace minerals are available to the plants. Retesting is recommended 5 - 6 weeks after commencement.

General Notes

Sap results should be viewed in conjunction with any recent applications of nutrients as these may have had an influence on readings, consequently if these are available it would greatly assist us in interpreting these results. This is particularly relevant to recent foliar applications, you can also use the sap results to gauge the effectiveness of soil applied nutrients.