Agronomy

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PRODUCERSPOTLIGHT



Troy McGann Lamb County

"If you love what you do, you will never work a day in your life!"

A family man who enjoys firing up his smoker (ask him about his smoked apple crisp, it sounds amazing), trying new recipes, and hanging out on the back patio with his wife, Tina, and two kids, Hadley and Hudson. Troy McGann, a fourth generational farmer in Lamb & Hale Counties, who just completed his 6th crop season started out by helping on the farm driving a grain cart for his grandfather which turned into a full time, every summer job and now career. Troy's grandfather and uncle made a deal that if he graduated from college with his bachelors degree, they would help him start his own farming operation. Being a younger farmer, Troy's biggest fear is letting down the generations before him and the generations after him inspire him to continue farming, even on the hard days. A major hurdle each year Troy and many farmers face is the lack of rainfall. Troy's operation is broken up into 2/3 dryland and 1/3 irrigated; success hinges on the amount of rain he receives each year. Cotton, the main crop on the McGann farm, is Troy's favorite. He enjoys watching the different stages of growth that the plant goes through in the growing season from the crest coming to life to the bolls maturing and opening up and seeing the white fiber. Other crops you might see on the McGann farms are corn, milo, sunflower, and wheat for cover crops. For the 2023 year, you might even see sunflowers for oilseed production. Although not a new crop to Troy as he planted confectionary sunflowers in 2020 and had good luck with them, he is able to plant them early to split his irrigation with cotton to better focus the water during the high demand time; something he plans on doing with this years sunflower crop.

A young farmer himself, Troy wants other young farmers to always be willing to learn from the farmers that came before you. Since they are still farming and being successful, they must know what they are talking about! Being able to adapt is important as equipment, technology and production is evolving.



READING A SOIL ANALYSIS

After taking a quality soil sample and sending it to a lab, you get the report back and your eyes can get crossed and your head might start pounding. Let's take soil analysis and its components step by step. Over the next 9 newsletters, I will break down not only the analysis but each macro nutrient and some micro nutrients. In July, look for a "Basics of Soil Nutrients" clinic to dive deeper and understand your soil and the nutrients that are required to grow your crops. A few key points to keep in mind when receiving your soil analysis report:

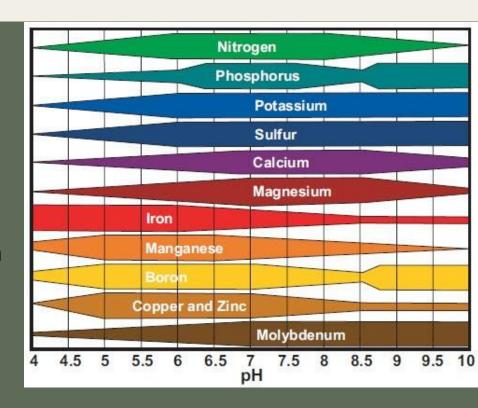
- recommendations are made to meet your desired yield goals for the intended crop to be grown. This information you submit with the sample
- no soil analysis is perfect but it can provide insight into potentially improving crop nutrient management and detect deficiencies
- results are reported in ppm (parts per million) with the exception of nitrogen
- multiplying ppm by 2 will give you pounds per acre
- soil analysis give a measurement of soil nutrients that are expected to be plant-available, not the amount of nutrients in the soil

DATE:	03/10/23				SOIL	ANAL	YSIS R	EPOR ⁻	Γ					F	PAGE:	1
SAMPLE ID	LAB NUMBER	ORGANIC MATTER % RATE ENR lbs/A	PHOSPHOI P1 (Weak Bray) (Stro ppm-P RATE ppm	P2 trong Bray)	POTASSIUM K ** ppm-K RATE	MAGNESIUM Mg *** ppm-Mg RATE	CALCIUM Ca ppm-Ca RATE	SODIUM Na *** ppm-Na RATE	SOIL pH	BUFFER INDEX	Cation Exchange C.E.C. meq/100g		COMPL PERCENT Mg		TURATION H	N Na
HOME HALF LEASE	11398 11399 11400	1.2L 55 0.8VL 46 0.8VL 46		92VH 119VH 369VH	516VH 634VH >700VH	704VH 585VH 680VH	2469M 2129M 3483M		7.5 7.6 7.8		19.5 17.1 26.0	6.8 9.5 11.3	29.7 28.1 21.5	63.2 62.1 66.9	0.0	

SAMPLE ID	NITRATE NO3	SULFUR S ppm-S RATE	ZINC Zn *** ppm-Zn RATE	MANGANESE Mn *** ppm-Mn RATE	Fe	COPPER Cu *** ppm-Cu RATE	BORON B ppm-B RATE	EX- CESS LIME RATE	SOLUBLE SALTS mmhos/cm RATE		CODE TO RATINGS: VL = VERY LOW M = MEDIUM VH = VERY HIGH	L = LOW H = HIGH NR = NOT RATED
HOME HALF LEASE	2VL 2VL 5L	8L 5L 6L	0.9VL 2.3L 1.2L	6L 7L 8L	5M 5M 7M	1.0M 0.9M 1.5H	1.6H 1.3M 1.5H				ND = NONE DETECTED IS = INSUFFICIENT SAN ENR = ESTIMATED NITR	MPLE
											This report applies only to the sa are retained for a maximum of the	
											A & L PLAINS AGRICULTUR	RAL LABORATORIES, INC.

SOIL PH

- Soil pH is the measure of hydrogen ion activity in the soil and is represented on a scale from 0-14
- Soil pH can vary from region to region and even field to field



In the field:

Nutrient uptake is effected by soil pH (see chart). A pH of 6.0-7.0 is ideal for nutrient uptake/availability. Even with the proper amount of nutrients provided to the plants via fertilizer, the soil pH will determine if the plants will be able to utilize them. This is why soil testing is so important. Remember, that fertilizers, rainfall, and irrigation can all shift your pH over time. Soil pH can be increased with the addition of lime and decreased by adding sulfur; both must be incorporated and monitored closely.

On the analysis:

Soil pH is a chemical way to of estimating nutrients available to the plant. A pH of 6.9 or below is considered acidic whereas a pH of 7.1 and above indicates alkaline soils. For soils with a pH lower than 6.4, a buffer pH will also be included on your analysis. This number will tell you amount of lime needed to correct or reduce acidity. The higher the buffer number, the greater change will occur with smaller amounts of lime (an inverse reaction).

UPCOMING



- MARCH 8 @ CASTRO CO 1PM
- MARCH 20 @ HALE CO 8AM
 - MARCH 24 @ LAMB CO 1PM
- (i) To RSVP call Castro Co. Extension Office at 806-647-4115.

\$100 FEE

- Training is approximately 3.5 hours
- Includes study material & spray log
- Contact Kristie Keys at (325)-665-8790 for more info.

Educational programs of the Texas A&M AgriLife Extension Service are open to all people without regard to race, color, religion, sex, national origin, age, disability, geneic information or veteran status. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating

Do You Need...

- Private Applicator Training
- Auxin
- Paraquat

Call Castro County Extension office.





Would you do me afaver?

I'm anonymously collecting information on soil sampling and would appreciate anyone who wanted to take a quick survey, 8 questions max! Copy and paste the link below.

https://forms.gle/6JFkPC3RFmXodRZk9



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