Date: April 7th 2021



Bailey's Bit About Nutrition

Spring Alfalfa Stand

Spring is here and if you look out into the fields, you will start to see some green popping up. Now is time to assess the alfalfa stand condition. First, you will need a square to measure a square foot; as in the picture below.



Just plop this down in a couple random spots throughout the field and start counting. One way to count the alfalfa stand condition, is to count the individual plant. A high yielding alfalfa stand seeded last year should have 20 plants/ft². Counts as low as 12 plants/ft² will produce good yield, but result in shortened stand life. Anything less than 12 plants/ft2, will have lower yields and start to lose profitability. A high yielding alfalfa stand over 1 year old, should have at least 6 plants/ft². If plant density is less than 6 plants/ft², the fields begin to lose profitability. Another way to count the alfalfa stand condition is to count the individual stems. A healthy stand should have 55 stems/ft². If stem counts are between 40 to 55stems/ft², stem density might be limiting yield potential. Anything below 40stems/ft², will begin to lose profitability.

Solutions to a Low Yielding Alfalfa Stand

So what do we do when the field is below 40stems/ft² and below 12 plants/ft²? One option, is to rotate out of alfalfa. Some farmers probably want other options available. Thin, open stands, lower yield and invite weed invasion, which lowers feed value and marketability.



Inter-seeding or over-seeding can be some options to bring up the field yield for this year. Overseeding red clover or Italian ryegrass can prolong the life of damaged alfalfa stand by up to two years. Small grains and annual cool grasses (oats, wheat, rye, triticale, or annual ryegrass) can provide high quality forage quickly and effectively prolong stand life for one year. Inter-seeding perennial grasses, such as orchard grass, teff, timothy, or tall fescue takes longer to establish, than annual grasses, but can enhance stands for two or more years. Best success with inter-seeding, is to seed with a no till drill. Grass and clover can be drilled early in the spring if alfalfa is still small enough. Once surviving alfalfa has reached 6-8 inches in height, it is extremely competitive with grass seedlings, and it will be more effective to drill new seeds immediately after first harvest. Alfalfa stands can tell us a lot and can save the farmer field profitability by taking action now.

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Check out this video featuring Bob Johnson (Sales Consultant) and Ben Archeson (Intern), as they demonstrate on how to do an alfalfa stand assessment.



Facebook link: https://www.facebook.com/242916199147443/videos/3831943326893440

YouTube link: https://www.youtube.com/watch?v=iVfJwoc6l9o

Table	1	Number	οf	stems	and	vield	potential	οf	alfalfa
lable	Ι.	Manna	υı	Stellis	anu	yıcıu	potential	UI	anana.

Stems per square foot												
54 or more	50	45	40	35	30	25						
100% yield potential	90% of yield potential	81% of yield potential	72% of yield potential	62% of yield potential	53% of yield potential	44% of yield potential						
Keep in production	Keep in production	Keep in production	Keep in production	Consider replacing	Consider replacing	Consider replacing						

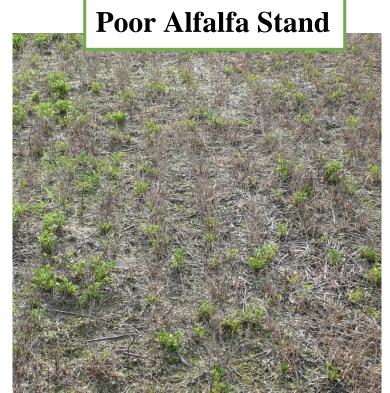
Adopted from Undersander, D., Grau, C., Cosgrove, D., Doll, J., and Martin, N. 2011.

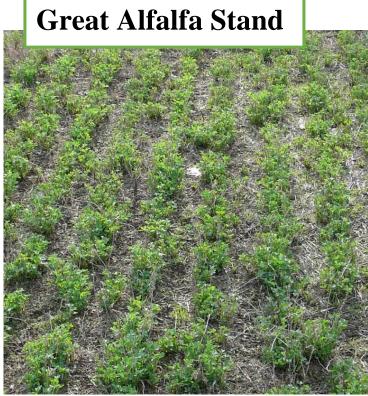
Alfalfa stand assessment: Is this stand good enough to keep? University of Wisconsin Extension.

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A Bit about Forage Rotation

Bob Bellmeyer has a small farm in southwestern Wisconsin, where he successfully grows alfalfa as a cash crop. Despite less-than-ideal ground, Bob consistently achieves good yields using the Midwestern BioAg program: hay over six tons per acre, corn at 185 bu/acre, and soybeans at 50 bu/acre.

Bob uses a three-crop rotation: soybeans, corn, and hay. He seeds about 10 acres per year with a nurse crop of oats, often finding it a challenge to combine the oats before the hay gets too big. "The hay grows too well," Bob notes.

Bob has used Bio-Cal® for the past 10 years to raise the calcium content of his soil and maximize alfalfa yields. He also uses short rotations (keeping a field in hay for no more than four years) and applies 300 lbs/acre of 3-10-25.

"It's as good a program as there is," Bob says of Midwestern BioAg's forage program. "If you stick with the program, your soil improves."