

2007 - 2014 SUMMARY





OBJECTIVES:

- →TO VERIFY THE YIELD AND QUALITY OF ALFALFA
 HARVESTED FROM PRODUCTION FIELDS OVER THE LIFE
 OF THE STAND BEGINNING WITH THE FIRST PRODUCTION
 YEAR (YEAR AFTER SEEDING).
- →TO QUANTIFY DECREASES IN STAND PRODUCTIVITY OF ALFALFA FIELDS AS THEY AGE.











- →IDENTIFY PRODUCERS WILLING TO COOPERATE AND WITH A VESTED INTEREST IN THE RESULTS (MULTI-YEAR COMMITMENT).
- → DENTIFY POTENTIAL FIELDS AND VERIFY ACREAGE.
- →No "SPECIAL" MANAGEMENT REQUIRED
- →WEIGH ALL FORAGE FROM PROGRAM FIELDS AT EACH CUTTING.
- →SAMPLE FORAGE FROM PROGRAM FIELDS AT EACH CUTTING.
- → COLLECT AND ANALYZE DATA AT THE END OF EACH YEAR.



PERSISTENCE PROJECT



★2007: 6 farms, 8 fields
★2008: 6 farms, 10 fields
★2009: 6 farms, 8 fields
★2010: 2 farms, 6 fields
★2011: 3 farms, 4 fields
★2012: 4 farms, 8 fields
★2013: 3 farms, 5 fields
★2014: 11 farms, 15 fields

Number of Fields:

2007: 8 2008: 16 2009: 23 2010: 23 2011: 22 2012: 16

2012. 10

2013: 13

2014: 24 **6393 tons**





Wisconsin Alfalfa Yield and Persistence Project

- FIELD BACKGROUND INFORMATION (2007-2014)
 - →ALL SEEDED IN 2006-2013
 - \rightarrow 53 SPRING SEEDED, 11 LATE-SUMMER SEEDED
 - →SEEDING RATES: 12 28 LBS. PER ACRE (15-17 MOST COMMON)
 - →FIELD SIZES: 5.2 TO 194.8 ACRES
 - → CUTTING SCHEDULES: 3-, 3+1, 4-, AND 5-CUT (4+1) SYSTEMS



Alfalfa Yield and Stand Longevity Project

Grower Name:
Address:
County:



Mo/Yr Seeded: April, 2006 Seeding Rate: 17 lbs./ac

Variety: Renk SummerGold

2008						Total
	1st Cut	2nd Cut	3rd Cut	4th Cut	5th Cut	Season
Acres	38.965	38.965	38.965	38.965		
Cutting Date	30-May	5-Jul	7-Aug	17-Sep		
Harvest Date	1-Jun	6-Jul	9-Aug	19-Sep		
Field Wet Yield (lbs)	390850	299860	202340	114780		1007830
DM %	44.45	44.84	50.33	55.87		47.05
Total Field DM Yield (tons)	86.87	67.23	50.92	32.06		237.08
DM Yield per Acre (tons)	2.23	1.73	1.31	0.82	0.00	6.08
% of Total Season Yield	36.6	28.4	21.5	13.5	0.0	100.0
% of 1st Production Year	124.4	145.2	91.7	74.5		110.4
СР	22.6	24.2	21.8	23.8		23.0
ADF	29.2	28.6	30.7	26.9		29.0
NDF	34.5	34.9	37.7	33.5		35.2
NDFD	46.8	46.9	43.0	43.8		45.6
RFQ	190	188	158	191		183
Milk/Ton	3044	3054	2725	3026		2976

Field Notes: (pesticide applications, weather, etc.)





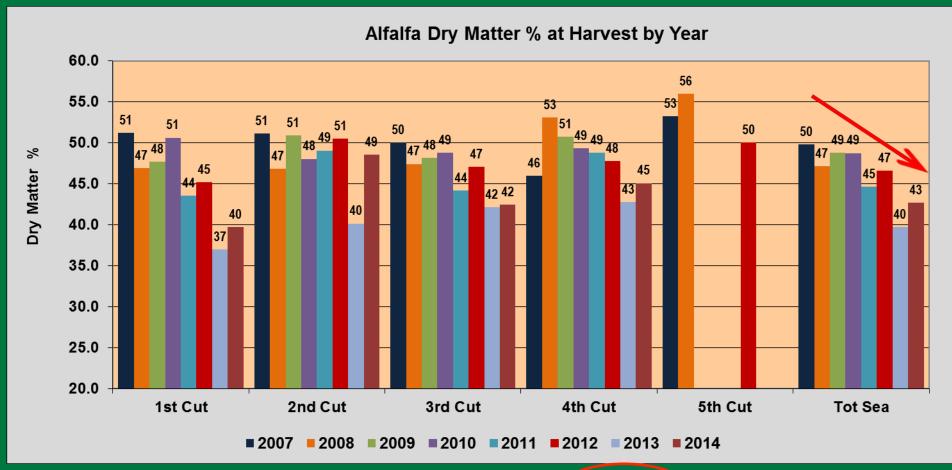
Wisconsin Alfalfa Yield and Persistence Project

SUMMARY OF MEAN CUTTING DATES

	1st Cut	2 nd Cut	3 rd Cut	4 th Cut*	5 th Cut
2007	22-May	24-June	25-July	30-Aug	21-Oct
2008	3-Jun	3-Jul	3-Aug	29-Aug	29-Oct
2009	31-May	1-Jul	4-Aug	5-Sep	
2010	22-May	28-Jun	2-Aug	29-Aug	12-Oct
2011	31-May	1-Jul	31-Jul	31-Aug	
2012	16-May	14-Jun	14-Jul	10-Aug	21-Sep
2013	10-Jun	11-Jul	6-Aug	7-Sep	
2014	4-Jun	9-Jul	7-Aug	13-Sep	

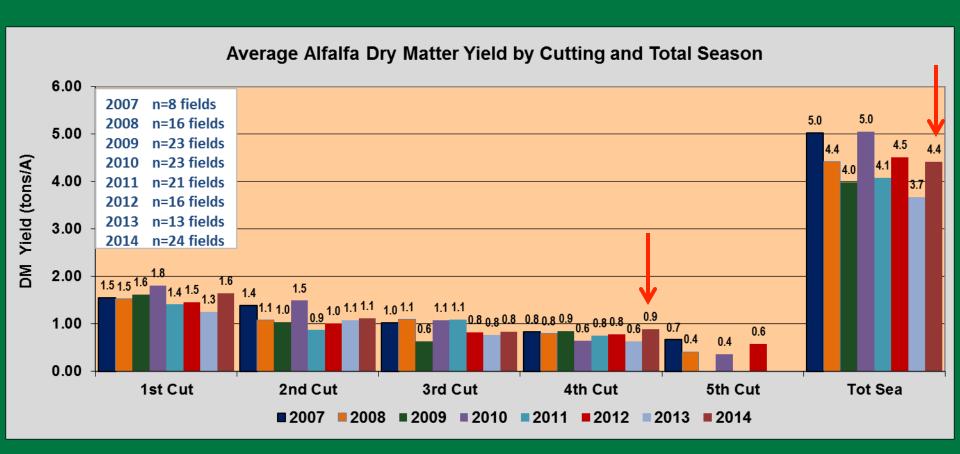
 $^{^{}st}$ avg. excludes any field where a 4^{th} cut was taken in October





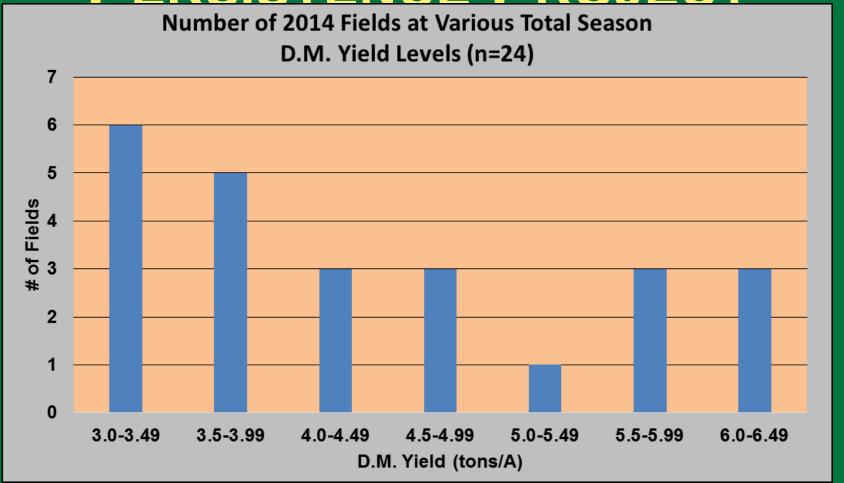
2014 Total Season Range: 33.9 – 56.2





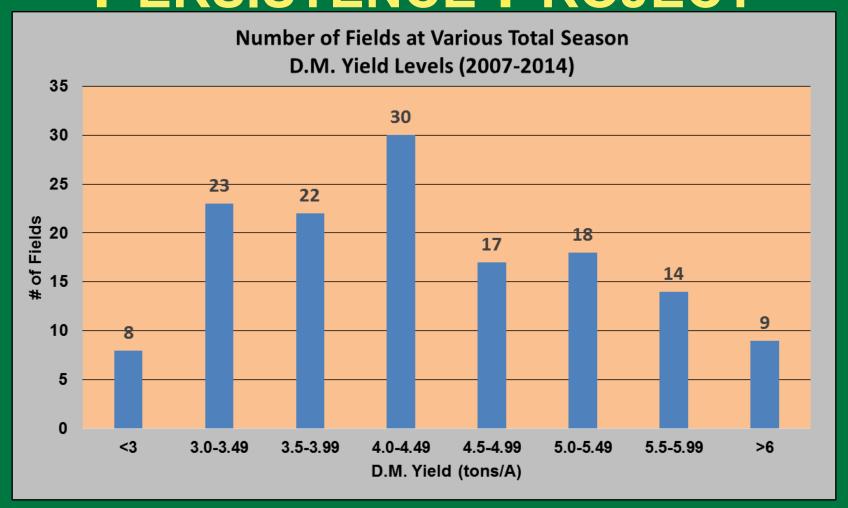


PERSISTENCE PROJECT





Wisconsin Alfalfa Yield and Persistence Project



n=141 site years





PERSISTENCE PROJECT

RANGE IN DRY MATTER ALFALFA YIELD BY CUTTING AND YEAR

	1 st	Cut	2 nd	Cut	3 rd	Cut	4 th	Cut	5 th	Cut	To Sea	
	Low	High	Low	High								
2007	1.00	1.79	1.02	1.77	0.37	1.42	0.59	1.14	0.34	0.88	2.39	6.12
2008	0.73	2.23	0.49	1.78	0.76	1.54	0.43	1.12	0.37	0.45	2.70	6.08
2009	0.57	2.36	0.55	1.60	0.20	1.33	0.32	1.15			2.21	5.27
2010	1.16	2.34	0.84	1.85	0.55	1.57	0.39	1.33	0.34	0.39	3.33	6.17
2011	0.78	2.45	0.52	1.29	0.47	1.68	0.45	1.19			2.80	6.26
2012	0.84	2.33	0.62	1.88	0.38	1.55	0.40	1.27	0.34	0.76	3.36	6.55
2013	0.47	2.27	0.40	1.80	0.44	1.19	0.30	0.99			1.62	5.40
2014	1.09	2.96	0.49	1.99	0.35	1.36	0.59	1.58			3.13	6.28



MEAN PERCENT OF TOTAL SEASON YIELD BY CUTTING FOR 3-, 4-, AND 5-CUT (4+1) SYSTEMS

	# site yrs.	1st Cut	2nd Cut	3rd Cut	4th Cut	5th Cut
3-cut	12	43	31	26		
4-cut	115	36	25	21	18	
5-cut	20	31	23	18	16	12



Wisconsin Alfalfa Yield and

PERSISTENCE PROJECT PERCENT OF 1ST PRODUCTION YEAR YIELD FOR 2ND, 3RD,

AND 4TH PRODUCTION YEAR STANDS

2 nd	Production	Year Stands	(n=40 site years)

Mean 102

Low 69

High 236

3rd Production Year Stands (n=30 site years)

Mean 98

63 Low

High 183

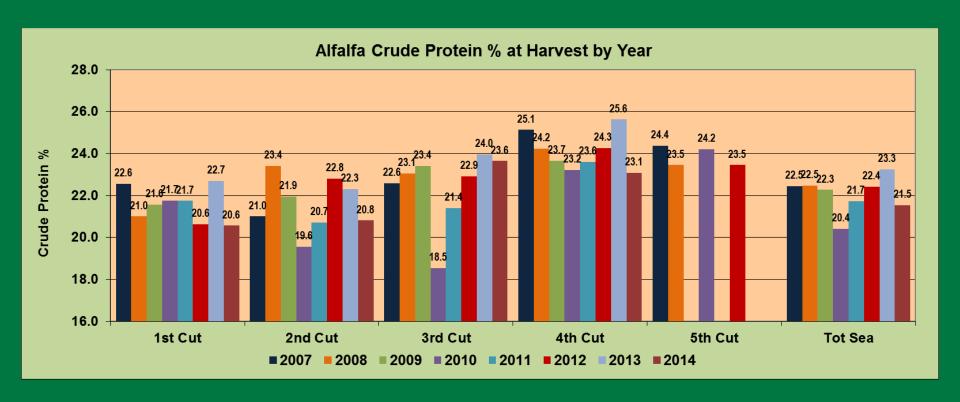
4th Production Year Stands (N=11 site years)

Mean **78**

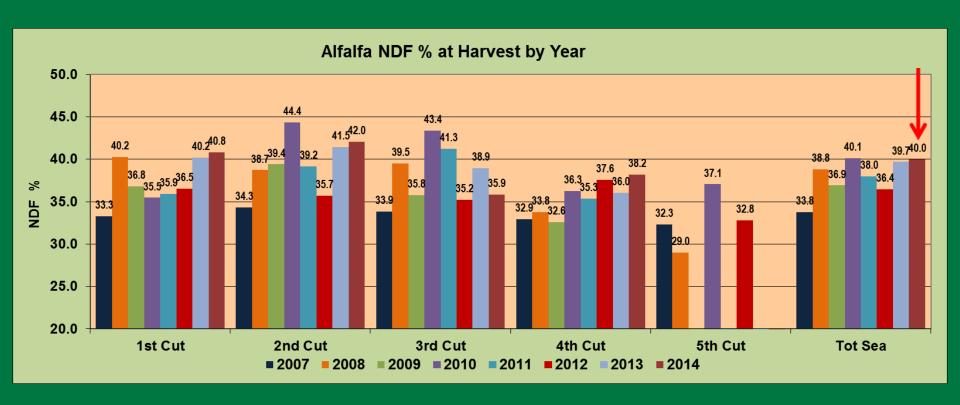
59 Low

High 115

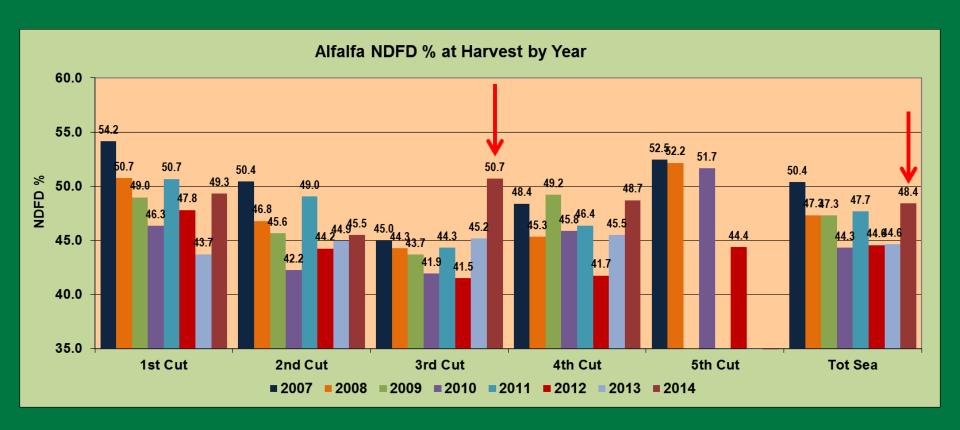




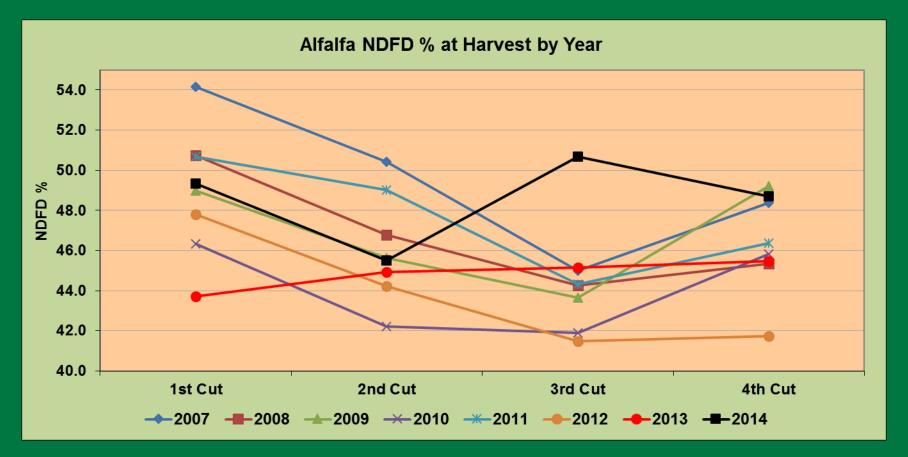




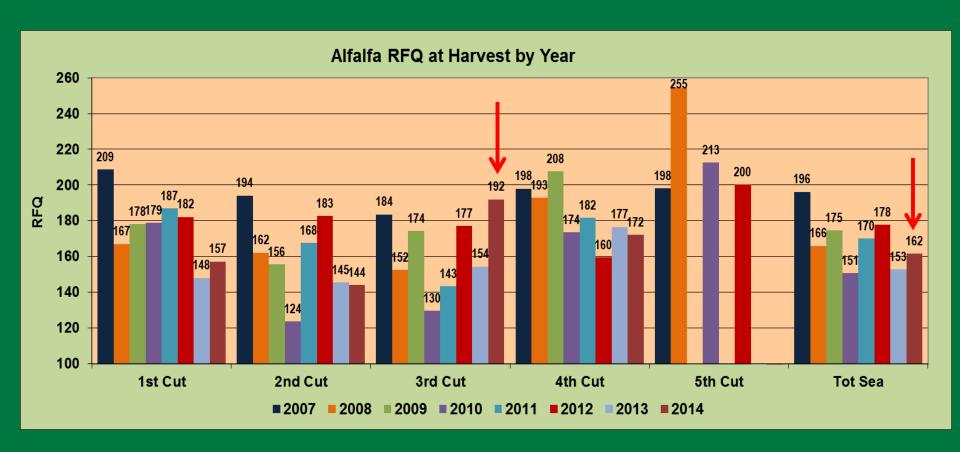




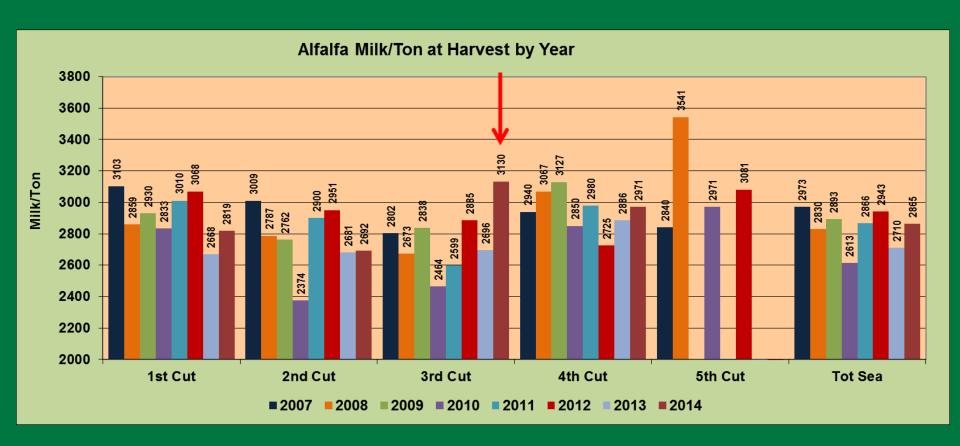














Wisconsin Alfalfa Yield and • PERSISTENCE PROJECT • 2014 SUMMARY

- - → Another wet, cool year but overall better than 2013.
 - → Largest influx of New Fields (15) added in a given year and total FIELDS (24) FOR A GIVEN YEAR.
 - → Large variation in total-season yields (3 over 6 ton/A).
 - → PROJECT YEAR RECORDS SET:
 - ♣ LATEST AVERAGE THIRD AND FOURTH-CUT DATES
 - → HIGHEST (TIE) AVERAGE FOURTH-CUT DRY MATTER YIELD.
 - → HIGHEST AVERAGE FIRST-CUT NDF%
 - THIRD-CUT: HIGHEST NDFD% (BY A LOT), RFQ, AND MILK/TON.
 - ightarrow 2ND AND 3RD PRODUCTION YEAR YIELDS NEARLY EQUAL TO 1ST PRODUCTION YEAR. PRODUCTION FALLS ABOUT 25% IN $4^{\text{\tiny TH}}$ PRODUCTION YEAR.
 - → TO DATE, 71% OF FIELDS (SITE-YEARS) HAVE YIELDED LESS THAN 5.0 TONS D.M. PER ACRE. PLENTY OF ROOM FOR IMPROVEMENT.





NOW RECRUITING
FOR 2015
PARTICIPANTS!



PERSISTENCE PROJECT

- ACKNOWLEDGEMENTS
 - → MIKE BERTRAM COLUMBIA CO.
 - → AERICA BJURSTROM KEWAUNEE CO.
 - → GREG BLONDE WAUPACA CO.
 - → JASON CAVADINI MARATHON CO.
 - → JERRY CLARK CHIPPEWA CO.
 - → Mark Hagedorn Brown Co.
 - → Kevin Jarek Outagamie Co.

- → DAVID LAATSCH DODGE CO.
- → BRYCE LARSON CALUMET CO.
- → RYAN STERRY ST. CROIX CO.
- → MIKE RANKIN FOND DU LAC CO.
- → NICK SCHNEIDER WINNEBAGO CO.
- → AMY VANDEBRAKE PIERCE CO.
- →AND THE FORAGE PRODUCERS WHO TOOK THE TIME AND EFFORT TO MAKE IT HAPPEN.

A complete summary of this project is located on the Team Forage website: http://fyi.uwex.edu/forage/alfalfa/

Funding for this project provided by UW Extension Team Forage and the Midwest Forage Association





QUESTIONS?



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