

HYBRIFORCE 3400

GEN-3 HYBRID ALFALFA

On-Farm HAY Program (Hybrid Alfalfa Yield)

2016 Performance Summary

HybriForce-3400 Head-to-Head Summary						
All Cuts at All Locations vs Non-Dairyland Varieties (1848 comparisons)						
2013 -2016						
Hybrid	Competitor	Yield Advantage ¹	Wins	-	Losses	Win% ³
HybriForce-3400	ALL VARIETIES	10.2%	1346	-	502	73%
HybriForce-3400	ALL RR VARIETIES	11.5%	638	-	220	74%
HybriForce-3400	ALL PIONEER	9.6%	383	-	143	73%
HybriForce-3400	ALL CROPLAN	8.5%	272	-	125	69%
HybriForce-3400	ALL WL	9.8%	173	-	61	74%
HybriForce-3400	ALL NEXGROW	9.6%	167	-	53	76%
HybriForce-3400	ALL DEKALB	9.3%	158	-	80	66%



HYBRIFORCE 3400

GEN-3 HYBRID ALFALFA

vs Competitive Brands

All Cuts at All Locations vs Non-Dairyland Varieties

2013 -2016

Hybrid	Competitor	Yield Advantage ¹	Wins	-	Losses ²	Win% ³	Extra \$ Value/Bag @ \$150 per ton Hay ⁴
Hybriforce-3400	55H94	23.4%	21	-	2	91%	\$ 1,950
Hybriforce-3400	54VR03	17.3%	8	-	0	100%	\$ 1,442
Hybriforce-3400	54QR04	13.3%	51	-	13	80%	\$ 1,108
Hybriforce-3400	53VR03	12.8%	17	-	0	100%	\$ 1,067
Hybriforce-3400	55Q27	11.7%	49	-	17	74%	\$ 975
Hybriforce-3400	55V50	8.4%	164	-	72	69%	\$ 700
Hybriforce-3400	54Q32	6.6%	39	-	18	68%	\$ 550
Hybriforce-3400	55VR06	5.4%	3	-	3	50%	\$ 450
Hybriforce-3400	54Q14	4.2%	16	-	8	67%	\$ 350
Hybriforce-3400	55V48	2.4%	15	-	10	60%	\$ 200
HybriForce-3400	ALL PIONEER	9.6%	383	-	143	73%	\$ 800
Hybriforce-3400	AphaTron	12.3%	48	-	17	74%	\$ 1,025
Hybriforce-3400	LegenDairy XHD	8.9%	101	-	47	68%	\$ 742
Hybriforce-3400	Stratica RR	7.9%	58	-	28	67%	\$ 658
Hybriforce-3400	CONSISTENCY4.10RR	6.8%	15	-	4	79%	\$ 567
Hybriforce-3400	Rebound6.0	6.3%	44	-	22	67%	\$ 525
Hybriforce-3400	Tonnica RR	3.6%	3	-	3	50%	\$ 300
Hybriforce-3400	REBOUND5.0	1.2%	3	-	4	43%	\$ 100
HybriForce-3400	ALL CROPLAN	8.5%	272	-	125	69%	\$ 708
Hybriforce-3400	WL363HQ	18.2%	19	-	2	90%	\$ 1,517
Hybriforce-3400	WL352LH.RR	14.5%	28	-	7	80%	\$ 1,208
Hybriforce-3400	WL367HQ.RR	10.3%	49	-	15	77%	\$ 858
Hybriforce-3400	WL372HQ.RR	8.2%	15	-	6	71%	\$ 683
Hybriforce-3400	WL356HQ.RR	6.6%	55	-	25	69%	\$ 550
Hybriforce-3400	WL319HQ	4.1%	4	-	4	50%	\$ 342
Hybriforce-3400	WL355RR	3.8%	3	-	2	60%	\$ 317
HybriForce-3400	ALL WL	9.8%	173	-	61	74%	\$ 817
Hybriforce-3400	6472A	13.7%	3	-	1	75%	\$ 1,142
Hybriforce-3400	6480H	11.5%	3	-	1	75%	\$ 958
Hybriforce-3400	6422Q	11.3%	48	-	15	76%	\$ 942
Hybriforce-3400	6497R	9.8%	79	-	19	81%	\$ 817
Hybriforce-3400	6552	7.1%	24	-	9	73%	\$ 592
Hybriforce-3400	6585Q	5.5%	10	-	8	56%	\$ 458
HybriForce-3400	ALL NEXGROW	9.6%	167	-	53	76%	\$ 800
Hybriforce-3400	DKA43-22RR	13.6%	2	-	4	33%	\$ 1,133
Hybriforce-3400	DKA44-16RR	11.2%	47	-	15	76%	\$ 933
Hybriforce-3400	DKA41-18RR	8.8%	104	-	58	64%	\$ 733
Hybriforce-3400	DKA 137	2.3%	5	-	3	63%	\$ 192
HybriForce-3400	ALL DEKALB	9.3%	158	-	80	66%	\$ 775

HYBRIFORCE 3400 vs Competitive Varieties

GEN-3 HYBRID ALFALFA

All Cuts at All Locations vs Non-Dairyland Varieties
2013 -2016

Hybrid	Competitor	Yield Advantage ¹	Wins	-	Losses ²	Win% ³	Extra \$ Value/Bag @ \$150 per ton Hay ⁴
Hybriforce-3400	All Varieties	10.2%	1346	-	502	73%	\$ 850
Hybriforce-3400	Competitor Brand XYZ	39.0%	49	-	1	98%	\$ 3,250
Hybriforce-3400	Provider II	28.5%	5	-	0	100%	\$ 2,375
Hybriforce-3400	4S417	23.9%	8	-	0	100%	\$ 1,992
Hybriforce-3400	55H94	23.4%	21	-	2	91%	\$ 1,950
Hybriforce-3400	WL363HQ	18.2%	19	-	2	90%	\$ 1,517
Hybriforce-3400	54VR03	17.3%	8	-	0	100%	\$ 1,442
Hybriforce-3400	Northern Best Brand II	14.7%	12	-	2	86%	\$ 1,225
Hybriforce-3400	WL352LH.RR	14.5%	28	-	7	80%	\$ 1,208
Hybriforce-3400	6472A	13.7%	3	-	1	75%	\$ 1,142
Hybriforce-3400	DKA43-22RR	13.6%	2	-	4	33%	\$ 1,133
Hybriforce-3400	54QR04	13.3%	51	-	13	80%	\$ 1,108
Hybriforce-3400	53VR03	12.8%	17	-	0	100%	\$ 1,067
Hybriforce-3400	Tug of War	12.8%	8	-	0	100%	\$ 1,067
Hybriforce-3400	AphaTron	12.3%	48	-	17	74%	\$ 1,025
Hybriforce-3400	449APH2	11.8%	16	-	2	89%	\$ 983
Hybriforce-3400	55Q27	11.7%	49	-	17	74%	\$ 975
Hybriforce-3400	6480H	11.5%	3	-	1	75%	\$ 958
Hybriforce-3400	6422Q	11.3%	48	-	15	76%	\$ 942
Hybriforce-3400	DKA44-16RR	11.2%	47	-	15	76%	\$ 933
Hybriforce-3400	PGI 557	11.1%	5	-	1	83%	\$ 925
Hybriforce-3400	FSG403LR	10.7%	12	-	2	86%	\$ 892
Hybriforce-3400	WL367HQ.RR	10.3%	49	-	15	77%	\$ 858
Hybriforce-3400	Hi-Gest 360	10.2%	23	-	6	79%	\$ 850
Hybriforce-3400	6497R	9.8%	79	-	19	81%	\$ 817
Hybriforce-3400	Exalt	9.6%	6	-	2	75%	\$ 800
Hybriforce-3400	455HD	9.1%	15	-	7	68%	\$ 758
Hybriforce-3400	LegenDairy XHD	8.9%	101	-	47	68%	\$ 742
Hybriforce-3400	DKA41-18RR	8.8%	104	-	58	64%	\$ 733

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HYBRIFORCE 3400 vs Competitive Varieties

GEN-3 HYBRID ALFALFA

All Cuts at All Locations vs Non-Dairyland Varieties
2013 -2016

Hybrid	Competitor	Yield Advantage ¹	Wins	-	Losses ²	Win% ³	Extra \$ Value/Bag @ \$150 per ton Hay ⁴
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Hybriforce-3400	Superior	8.6%	7	-	0	100%	\$ 717
Hybriforce-3400	55V50	8.4%	164	-	72	69%	\$ 700
Hybriforce-3400	WL372HQ.RR	8.2%	15	-	6	71%	\$ 683
Hybriforce-3400	Contender	8.2%	2	-	0	100%	\$ 683
Hybriforce-3400	Stratica RR	7.9%	58	-	28	67%	\$ 658
Hybriforce-3400	6552	7.1%	24	-	9	73%	\$ 592
Hybriforce-3400	4017 APH2	7.0%	3	-	1	75%	\$ 583
Hybriforce-3400	CONSISTENCY4.10RR	6.8%	15	-	4	79%	\$ 567
Hybriforce-3400	54Q32	6.6%	39	-	18	68%	\$ 550
Hybriforce-3400	WL356HQ.RR	6.6%	55	-	25	69%	\$ 550
Hybriforce-3400	Rebound6.0	6.3%	44	-	22	67%	\$ 525
Hybriforce-3400	Springgold	6.2%	2	-	2	50%	\$ 517
Hybriforce-3400	446RR	5.7%	4	-	0	100%	\$ 475
Hybriforce-3400	6585Q	5.5%	10	-	8	56%	\$ 458
Hybriforce-3400	55VR06	5.4%	3	-	3	50%	\$ 450
Hybriforce-3400	54Q14	4.2%	16	-	8	67%	\$ 350
Hybriforce-3400	WL319HQ	4.1%	4	-	4	50%	\$ 342
Hybriforce-3400	WL355RR	3.8%	3	-	2	60%	\$ 317
Hybriforce-3400	Tonnica RR	3.6%	3	-	3	50%	\$ 300
Hybriforce-3400	620APH2	2.5%	4	-	4	50%	\$ 208
Hybriforce-3400	55V48	2.4%	15	-	10	60%	\$ 200
Hybriforce-3400	DKA 137	2.3%	5	-	3	63%	\$ 192
Hybriforce-3400	REBOUND5.0	1.2%	3	-	4	43%	\$ 100
Hybriforce-3400	24/7	0.1%	8	-	6	57%	\$ 6
Hybriforce-3400	3717 HD	-0.4%	2	-	2	50%	\$ (33)
Hybriforce-3400	Baralfa X42 Hyb	-1.8%	2	-	2	50%	\$ (150)
Hybriforce-3400	All Varieties	10.2%	1346	-	502	73%	\$ 850

HYBRIFORCE 3400

GEN-3 HYBRID ALFALFA

vs Roundup Ready Varieties

On-Farm HAY Program (Hybrid Alfalfa Yield)

All Cuts at All Locations vs All Roundup Ready Varieties (858 Comparisons)

2013 -2016

Hybrid	Competitor	Yield Advantage ¹	Wins	-	Losses ²	Win% ³	Extra \$ Value/Bag @ \$150 per ton Hay ⁴
Hybriforce-3400	Competitor Brand XYZ	39.0%	49	-	1	98%	\$ 3,367
Hybriforce-3400	54VR03	17.3%	8	-	0	100%	\$ 1,442
Hybriforce-3400	352LH.RR	14.5%	28	-	7	80%	\$ 1,208
Hybriforce-3400	DKA43-22RR	13.6%	2	-	4	33%	\$ 1,142
Hybriforce-3400	54QR04	13.3%	51	-	13	80%	\$ 1,117
Hybriforce-3400	53VR03	12.8%	17	-	0	100%	\$ 1,108
Hybriforce-3400	AphaTron	12.3%	48	-	17	74%	\$ 1,025
Hybriforce-3400	DKA44-16RR	11.2%	47	-	15	76%	\$ 1,075
Hybriforce-3400	WL367HQ.RR	10.3%	49	-	15	77%	\$ 933
Hybriforce-3400	6497R	9.8%	79	-	19	81%	\$ 817
Hybriforce-3400	DKA41-18RR	8.8%	104	-	58	64%	\$ 733
Hybriforce-3400	WL372HQ.RR	8.2%	15	-	6	71%	\$ 683
Hybriforce-3400	Stratica RR	7.9%	58	-	28	67%	\$ 642
Hybriforce-3400	CONSISTENCY4.10RR	6.8%	15	-	4	79%	\$ 575
Hybriforce-3400	WL356HQ.RR	6.6%	55	-	25	69%	\$ 567
Hybriforce-3400	446RR	5.7%	4	-	0	100%	\$ 475
Hybriforce-3400	55VR06	5.4%	3	-	3	50%	\$ 450
Hybriforce-3400	WL355RR	3.8%	3	-	2	60%	\$ 317
Hybriforce-3400	Tonnica RR	3.6%	3	-	3	50%	\$ 300
HybriForce-3400	All Roundup Ready Varieties	11.5%	638	-	220	74%	\$ 946

¹ "Yield Advantage" is the average percent forage yield advantage of HybriForce-3400 versus the competitive check variety when comparing all head to head cuts

² "Wins" indicates the number of cuts that HybriForce-3400 yielded more than the competitive variety and "Losses" indicates the number of cuts that HybriForce-3400 yielded less than the competitive variety.

³ "Win%" is the percentage of the head to head cuts that HybriForce-3400 yielded more than the competitive variety.

⁴ "Extra \$ Value/Bag" is calculated using the following formula: (Adv) x (5 DM Tons Per Acre) x (4 Years in Production) x (\$150 Hay Price) x (50 lbs of seed per bag/18lbs of seed per Acre)

HYBRIFORCE 3400

GEN-3 HYBRID ALFALFA

On-Farm HAY Program (Hybrid Alfalfa Yield)

2013 -2016

Average Quality Difference of HybriForce-3400

Includes All 1848 Head to Head Comparisons against Non-Dairyland varieties (Weighted Averages)

Performance Parameter	Average Quality Difference
Dry Tons	10.2%
Crude Protein (% of Dry Matter)	1.4%
Nuetral Detergent Fiber Digestibility (NDFD-30hr)	3.0%
Total Tract Nuetral Detergent Fiber Digestibility (TTNDFD)	1.7%
Lignin (% of Dry Matter)	-2.4%
Relative Forage Quality (RFQ)	3.1%
Milk/Ton	2.3%
Milk/Acre	10.6%

