



Now with more traits and updated indexes

TO SELECT YOUR BEST, IT HELPS TO HAVE AN ADVANTAGE

GeneMax® Advantage is a genomic test created from a collaboration between Angus Genetics Inc.® (AGI), a subsidiary of the American Angus Association® and Zoetis. The test, which includes individual trait reporting for specific maternal, feedlot and carcass traits, is for use in commercial Angus replacement females (75% or greater) to help you make better-informed selection, mating and marketing decisions.

Three Economic Index Scores

GeneMax Advantage features three economic index scores that allow for easier, more dependable decision-making:

- Cow Advantage** – Expressed as a score of 1 to 100 (the higher the score, the more genetic potential), this index predicts differences in potential profitability from heifer development, pregnancy and calving to the sale of weaned progeny. Plus, the report now includes individual trait reporting for ten maternal traits for more specific breeding decisions – birth weight (BW), calving ease maternal (CEM), weaning weight (WW), yearling height (YH), heifer pregnancy (HP), milk, mature weight (MW), foot conformation - claw and angle composite (CAC), docility (DOC) and cow cost.
- Feeder Advantage** – Expressed as a score of 1 to 100 (the higher the score, the more desirable), this index predicts differences in net return of feeder calf progeny due to growth, feed efficiency and Certified Angus Beef® (CAB) carcass merit. Plus, the results include individual trait reporting for seven feedlot and carcass traits for more specific breeding decisions – gain, feed to gain (F:G), carcass weight (CW), marbling (Marb), ribeye area (RE), fat and tenderness (TND).
- Total Advantage** – Expressed as a score of 1 to 100 (the higher the score, the more genetic potential), this index predicts differences in potential profitability from genetic merit across all economically relevant traits captured in the Cow and Feeder Advantage index scores.



Maternal and Feedlot/Carcass Traits for GMX Advantage

Tag	Assn Num	Cow Advantage										Feeder Advantage							Total			Most Likely Sire		
		BW	CEM	WW	HP	Milk	YH	MW	Cost	Doc	CAC ¹	Advantage	Gain	F:G ²	CW	MARB	RE	FAT	TND	Advantage	Advantage	Tag	Reg. Num.	Name
353-G	IMP 423610442	80	75	89	55	47	75	86	73	86	47	89	84	23	40	32	39	91	95	78	91	100F	AAA 170625	Heifer 1201 of 6469 JB
311-B	IMP 423610442	75	57	89	68	30	81	39	74	57	43	83	55	59	89	68	30	70	75	49	87	100F	AAA 170625	Heifer 1201 of 6469 JB
312-W	IMP 423610442	85	77	85	78	55	88	32	45	33	13	77	41	39	91	81	26	62	65	86	87	100F	AAA 164952	Heifer 1102 of 632 0506

¹CAC = Claw and Angle Composite
²F:G = Feed to Gain

GENEMAX ADVANTAGE – REFRESHED & EXPANDED

- Over 1 million genotyped seedstock Angus contributing to marker effects for trait scores
- Over 95,000 GeneMax tested commercial females for benchmarking and informing indexes that simplify selection decisions
- Expanded scope of scores that includes 17 traits:
 - 10 refreshed trait scores historically reported
 - Maternal: CEM, WW, HP, Milk, MW
 - Feedlot & Carcass: Gain, CW, Marb, RE, FAT
- 7 added trait scores
 - Birth Weight (BW)
 - Feed-to-Gain (F:G)
 - Yearling Height (YH)
 - Claw Set and Foot Angle Composite (CAC)
 - Docility (DOC)¹
 - Cow Cost (CC)¹
 - Tenderness (TND)¹

¹Previously reported as Smart Outliers
- Cow, Feeder and Total Advantage index scores that incorporate added traits and refreshed economic assumptions

SIRE MATCH

GeneMax Advantage matches tested females to registered and transferred HD50K[®] and Angus GS tested Angus sires. Sire identification empowers better mating decisions and management of inbreeding. Angus bull buyers are encouraged to select bulls based on GE-EPDs and economic indexes powered by American Angus Association[®] database.

IMPLEMENTING GENEMAX ADVANTAGE

GeneMax Advantage information enables more timely and efficient breeding decisions for increased productivity and net return:

- Select females based on Total Advantage Score and correctively mate to improve Cow Advantage and/or Feeder Advantage Scores.
- Eliminate or correctively mate females with especially undesirable genetic merit for traits such as docility, foot soundness and tenderness.
- Minimize inbreeding and use results to better inform future Angus bull buying.
- Plus, GeneMax Advantage test results can be used in feeder cattle marketing programs to better inform retained ownership, and/or price discovery when selling untested steer mates.

ORDERING TESTS

More information and electronic ordering of Zoetis HD50K[®] for Angus and GeneMax Advantage can be found at www.angus.org/agi or genemaxadvantage.com. Samples and completed order forms must be submitted to:

Angus Genetics Inc. (AGI)
3201 Frederick Ave.,
Saint Joseph, MO 64506
Phone: 816-383-5100

Allflex[®] tissue samples for GeneMax Advantage, and may be ordered by contacting your Zoetis Genetics representative or AGI. AGI is the exclusive distributor of HD50K for Angus and GeneMax Advantage.

LEARN MORE

GeneMax Advantage Technical Summary is available by contacting AGI or Zoetis Genetics representatives, or visiting www.angus.org/AGI or genemaxadvantage.com.



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