

NBCEC BROWN

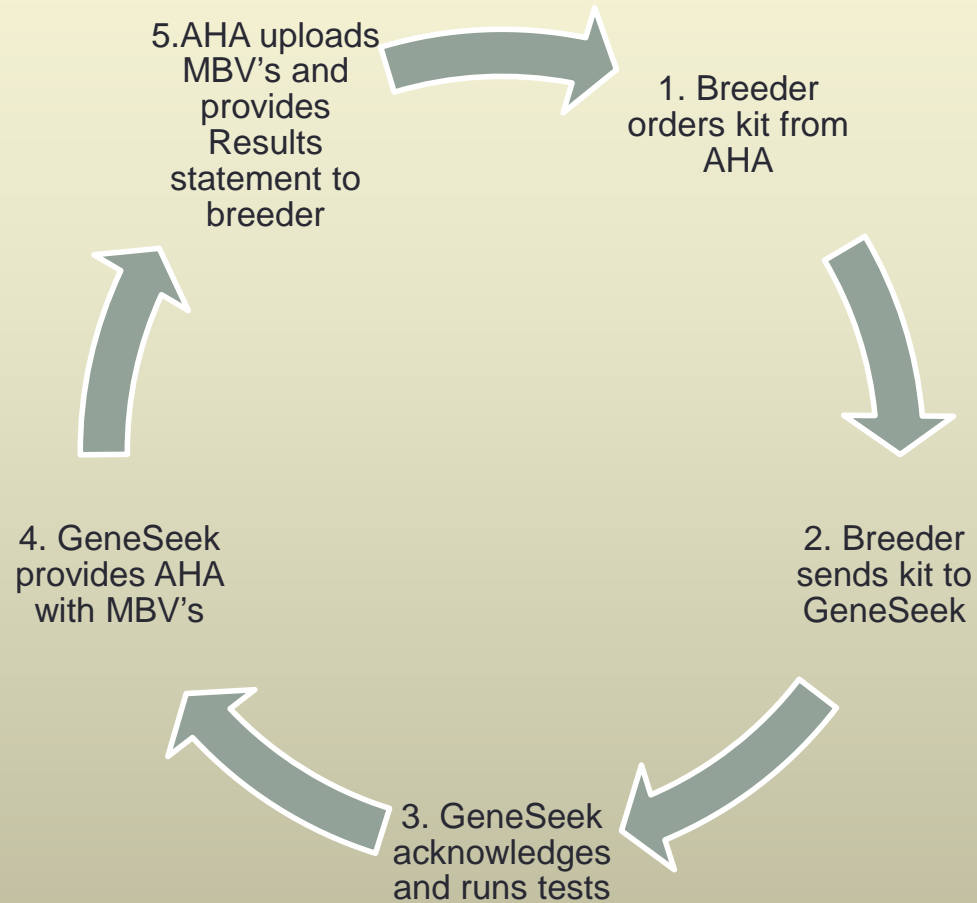
BAGGER

OCTOBER 8, 2014

Jack Ward

AHA, Director of Breed Improvement

AHA Process



Genomics Testing Progression

	<u>Genotypes</u>	<u>Type</u>
Initial Panel Developed Spring 2011	811	50K
Appeal to members for proven bulls/AHA's 1000 bull project		50K
Retrained Panel Spring 2013 (mid April)	3,216	50K
Switched to GGP-HD panel at end of May 2013	3,428	50K
Retraining Panel Spring 2014 (not complete)	5,494	GGPHD
Other countries and other projects in Spring 2014 retraining	10,320	various types



THE EFFICIENCY EXPERTS

New vs Old Summer 2013

(added over 2000 new bulls to training)

AHA trait	Old Correlation MBV &EPD	New correlation MBV & EPD
CE	.33	.68
BW	.40	.68
WW	.34	.52
YW	.33	.60
MM	.21	.37
MCE	.18	.51
MCW		.64
SC	.25	.43
FAT	.43	.48
REA	.25	.49
MARB	.41	.43
AVG	.31	.53

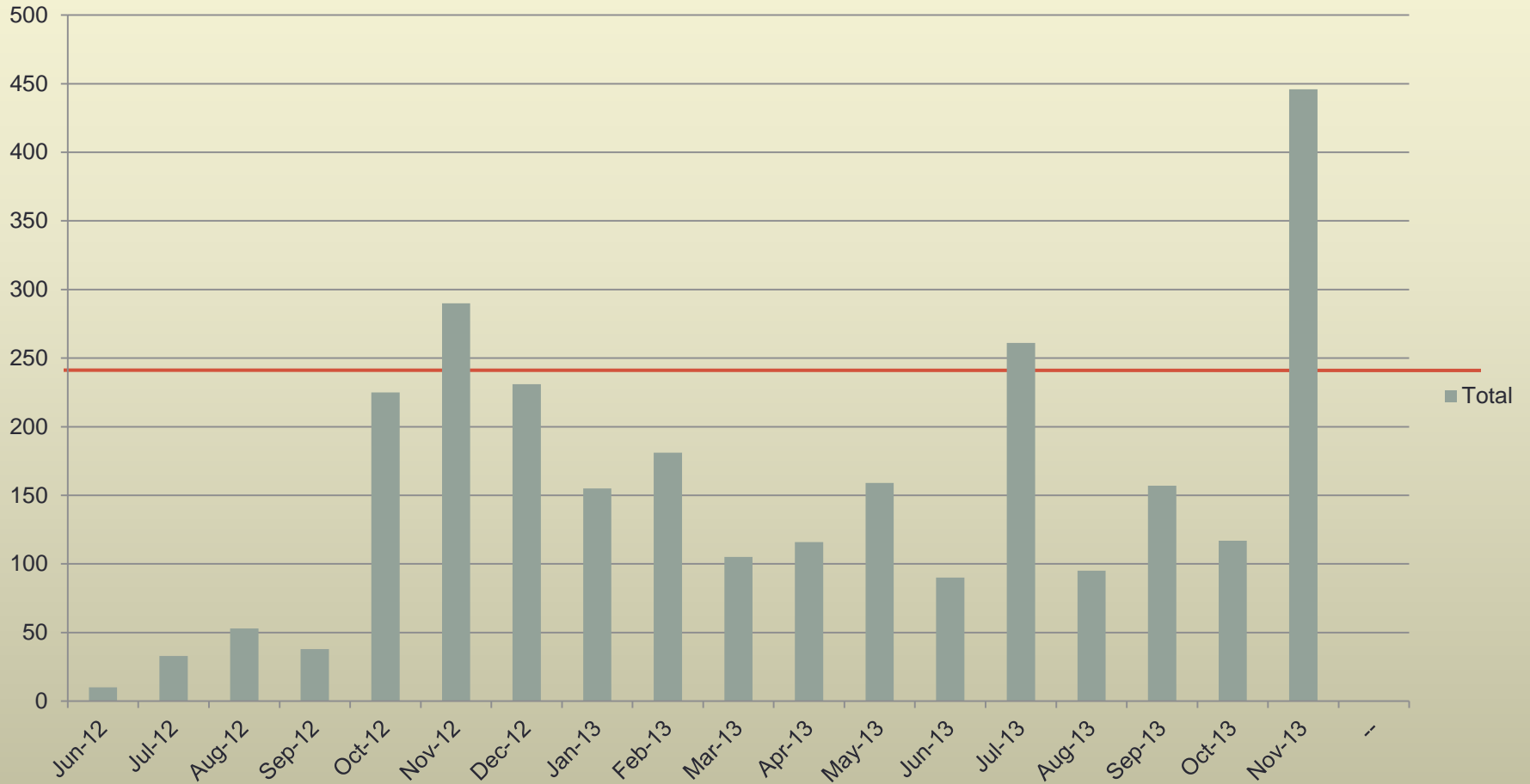
DNA testing options and new costs as of October 1, 2014

- Basic Test (Profile, Parentage, Abnormalities) \$35, no bulk rate
- GE-EPD Test (Profile, Parentage, Abnormalities and GE-EPD) \$55
- Stand alone H/P test \$45
- Full Package (Profile, Parentage, Abnormalities, GE-EPD and H/P) \$85
- **Need to continue to plan way ahead!**



THE EFFICIENCY EXPERTS

GE-EPD Requests by Month



THE EFFICIENCY EXPERTS

Future Development

- Continue to look at ways for better inclusion.
- Online ordering and reporting.
- Sequencing and identifying possible causative genes or at least genes with large effects.
- Continue to collect phenotypes through Whole Herd TPR
- Add new traits, udder quality, feed intake, fertility and health.
- Make sure that we not only rank the bulls correctly, but make sure that 1 lb change in EPD results in 1 lb change in average progeny performance.

What does Breeder receive?

American Hereford Association
 P.O. BOX 014059
 KANSAS CITY MO 64101-4100
 816-842-3757 FAX: 816-842-6931

Loewen Herefords 951 804
 John Loewen
 9815 South 66th
 Waukomis OK 73773-0120

DNA RESULT STATEMENT

Page: 1

Registration No:	43335297	Name:	LOEWEN 34X 1042 33Z
Herd Id:	33Z	Birth Date:	06/28/12
Tattoo:	33Z	Sex:	Bull

Results for Case No. AHA43335297-01	Date Sent: 05/08/13	<u>Date Tested</u>																																																																																	
Parentage Request Type: Parent Verification	Panel Type: SNP Panel	06/03/13																																																																																	
<u>Name</u>	<u>Registration Number</u>	<u>Result</u>																																																																																	
Sire: LOEWEN FOUNDATION 34X	43074983	Qualifies																																																																																	
Dam: ALH 0850 XENA 1042	43102499	Qualifies																																																																																	
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Tested	<table border="1"> <thead> <tr> <th>CE EPD</th> <th>BW EPD</th> <th>WW EPD</th> <th>YW EPD</th> <th>MIK EPD</th> <th>M&G EPD</th> <th>MCE EPD</th> <th>MCW EPD</th> <th>Scrotal EPD</th> <th>FAT EPD</th> <th>REA EPD</th> <th>MARB EPD</th> <th>BMI \$</th> <th>CEZ \$</th> <th>BII \$</th> <th>CHB \$</th> </tr> </thead> <tbody> <tr> <td>4.7</td> <td>-1.5</td> <td>45</td> <td>76</td> <td>4</td> <td>27</td> <td>1.7</td> <td>87</td> <td>1.2</td> <td>0.013</td> <td>0.36</td> <td>0.29</td> <td>29</td> <td>21</td> <td>27</td> <td>27</td> </tr> <tr> <td>.15</td> <td>.35</td> <td>.26</td> <td>.28</td> <td>.12</td> <td></td> <td>.12</td> <td>.11</td> <td>.15</td> <td>.18</td> <td>.20</td> <td>.17</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EPDs P & GE Data:</td> <td>4.5</td> <td>-0.5</td> <td>47</td> <td>76</td> <td>17</td> <td>40</td> <td>2.3</td> <td>90</td> <td>1.0</td> <td>0.001</td> <td>0.41</td> <td>0.30</td> <td>24</td> <td>20</td> <td>22</td> <td>29</td> </tr> <tr> <td></td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td></td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	CE EPD	BW EPD	WW EPD	YW EPD	MIK EPD	M&G EPD	MCE EPD	MCW EPD	Scrotal EPD	FAT EPD	REA EPD	MARB EPD	BMI \$	CEZ \$	BII \$	CHB \$	4.7	-1.5	45	76	4	27	1.7	87	1.2	0.013	0.36	0.29	29	21	27	27	.15	.35	.26	.28	.12		.12	.11	.15	.18	.20	.17					EPDs P & GE Data:	4.5	-0.5	47	76	17	40	2.3	90	1.0	0.001	0.41	0.30	24	20	22	29		P	P	P	P	P		P	P	P	P	P					
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Where to find Hereford animals that have GE-EPD

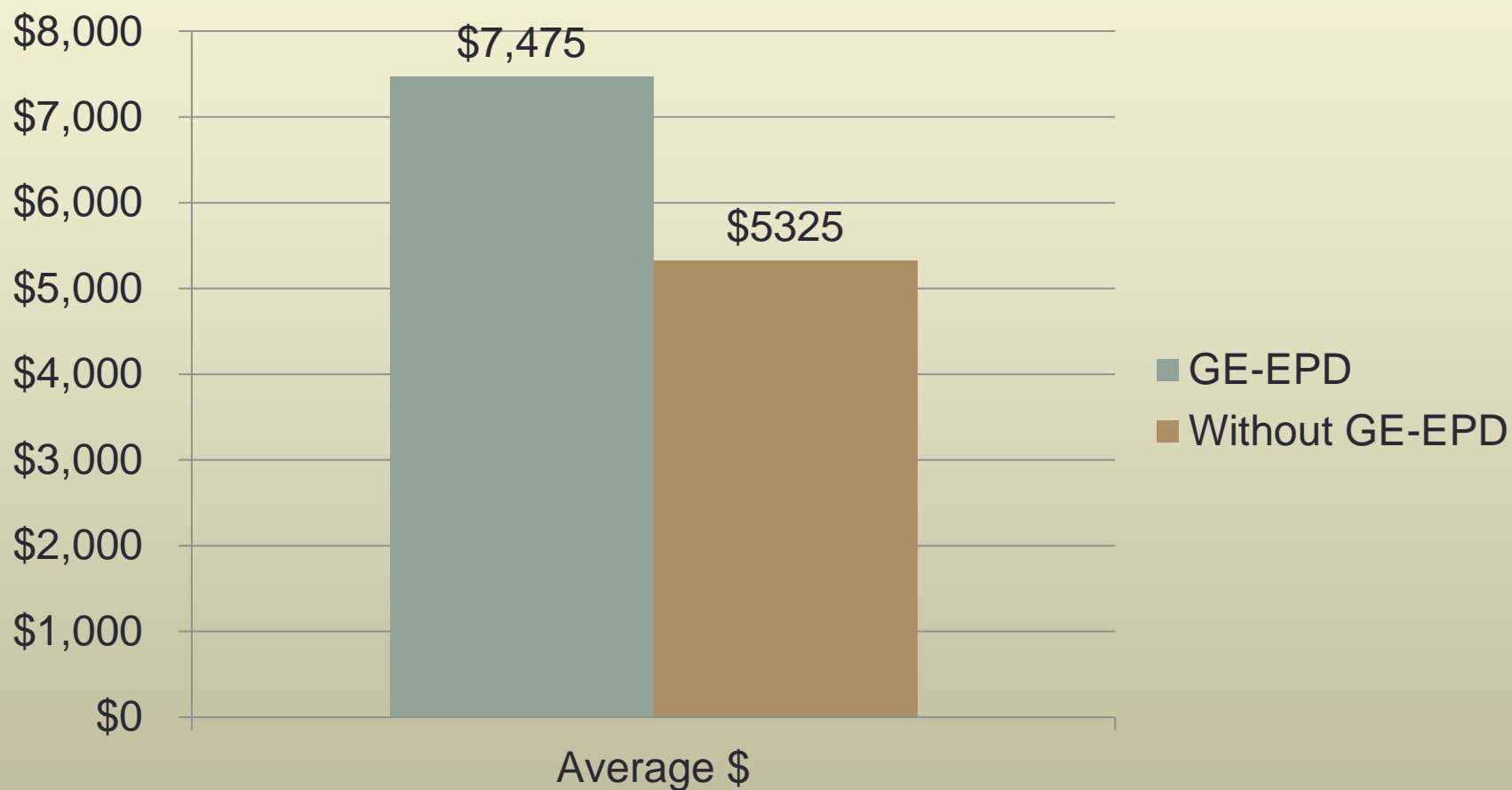
- Animals are recognized on the web, in sale catalogs, in Hereford World ads and in other printed advertisements with



- The EPD Inquiry can be used by a quest and animals can be “sort if”



\$ of Bulls with GE-EPD



Recognition

- NBCEC (Dorian Garrick, Mahdi Saatchi)
- USMARC (John Pollak, Mark Thallman, Larry Kuehn)
- Jerry Taylor
- Matt Spangler
- Mike MacNeil
- AGBU, ABRI
- GeneSeek
- AHA staff and BOD

