

A Snapshot of Kentucky's **Equine Industry: The 2012 Kentucky Equine Survey**

Key Contributors: UK: Bob Coleman, Nancy Cox, Alison Davis, Audrey Jarrett, Stephanie Johnson, Mary Rossano, Jill Stowe, Holly Wiemers; KHC. Ginny Grulke; NASS. Leland Brown, Shawn Clark









Kentucky Equine Survey– The Need

- The horse is Kentucky's signature industry
- Desire by industry to have good data
- The Great Recession of '08 '09
- Pressure on ag land from developers
- Reliable data are needed for the future success and sustainability of Kentucky's equine industry

Equine Industry in the U.S.

- Very little information available
- Industry is highly decentralized and diverse
- U.S. is large geographically
- Conducting good surveys is expensive



Kentucky Equine Survey

- Cooperation between universities, industry, and government
- \$600,000 project
 - \$200,000 from UK College of Ag
 - \$300,000 from state government
 - \$100,000 from industry individuals and organizations



Kentucky Equine Survey

- Three components
 - Equine Operation Inventory
 - Economic Impact Analysis
 - Non-Market Valuation Survey



Equine Operation Inventory

- Statewide survey of equine operations
 - Inventory of all breeds of equine, including horses, ponies, donkeys, and mules
 - Income, expenses, and assets
 - Conducted by National Ag Statistics Service (NASS)
 - Responsible for US Ag Census as well as annual surveys on other types of livestock and commodities

Equine Operations

Primary Operation Type	Estimated Number	% of Total	% of equine-related activities that are income-generating
Farm or Ranch	19,500	55.7%	10% *
Personal Use	10,500	30.0%	6% *
Other	3,200	9.1%	8%
Boarding, Training, or Riding Facility	1,100	3.1%	56%
Breeding Operation	700	2.0%	73%
Total	35,000		

Many people participate in the horse industry for fun, and not for business.

Statewide Equine Inventory

Category	Inventory	% of Total Inventory	(Partially) Owned	Boarded for Others
Light Horse	216,300	89.2%	176,500	39,800
Draft Horse	5,100	2.1%	4,900	200
Ponies	7,000	2.9%	6,500	500
Donkeys and Mules	14,000	5.8%	13,500	500
Total	242,400		201,400 (83.1%)	41,000 (16.9%)

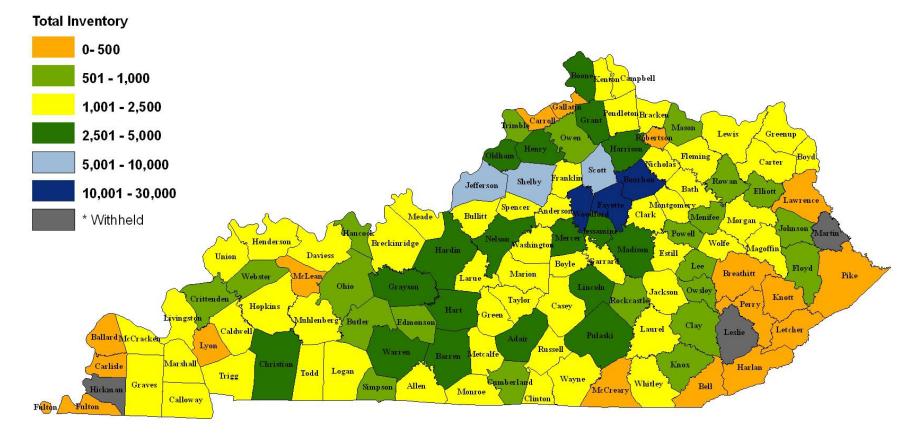
Equine Inventory: Breeds

Breed	Estimated Inventory	Estimated Value	Estimated Mean Value
Thoroughbred	54,000	\$5.5 B	\$101,700
Quarter Horse	42,000	\$146 M	\$3,475
Tennessee Walking Horse	36,000	\$71 M	\$1,970
Saddlebred	14,000	\$173 M	\$12,350
Donkeys, Mules, & Burros	14,000	\$12 M	\$850
Mountain Horse Breeds	12,500	\$31 M	\$2,480
Standardbred	9,500	\$119 M	\$12,500

Equine Inventory: Use

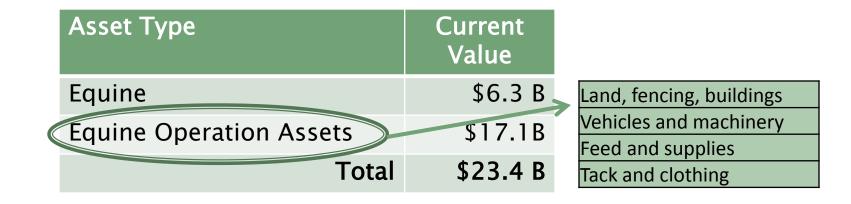
Type of Use	Estimate	% of Total
Trail Riding/Pleasure	79,500	32.8%
Broodmares	38,000	15.7%
Idle/Not Working	33,000	13.6%
Competition/Show	24,500	10.1%
Yearlings, Weanlings, & Foals	23,000	9.5%
Racing	15,000	6.2%
Other Activities	13,000	5.4%
Work/Transportation	12,500	5.2%
Breeding Stallions	3,900	1.6%

Kentucky Equine Inventory by County



* Withheld to avoid disclosing data for individual firms

Value of Equine and Equine Operation Assets



Kentucky has a huge investment in horses and in the infrastructure that accompanies the industry.

Equine Sales and Income

Equine Sales and Income	Dollar Value
Sales (All Equine)	\$521.1 M
Services (Breeding & Non-breeding)	\$491.0 M
Total	\$1.01 B

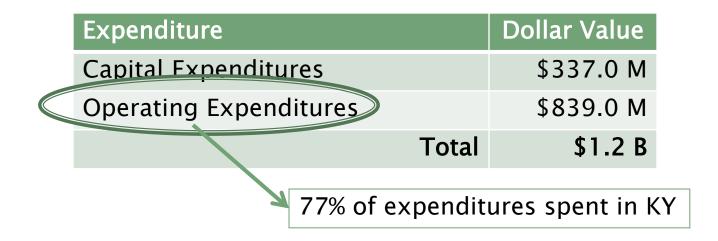
Breeding services (\$220 M)

- Stud Fees
- Semen...

Non-breeding services (\$271M):

- Boarding
- Lessons
- Training
- Transportation...

Equine Operation Expenditures



Capital Expenditures:

- Equine
- Real estate purchases
- Real estate improvements
- Equipment purchases

Operating Expenditures:

- Maintenance/Repair
- Feed
- Breeding fees
- Health care
- Training fees...

Economic Impact

- "Economic Impact" estimates the effect of the equine industry on Kentucky's economy
 - Output effect increase in sales due to presence of the industry
 - Employment effect number of jobs created by industry
 - Value added effect income paid to workers, profits earned by businesses, dividends distributed to shareholders



Economic Impact

Economic impact includes

Direct effects

 Breeding operation purchases halters from a local leather and tack store

Indirect effects

Leather and tack store purchases buckles, etc.

Induced effects

 Employees of leather and tack store spend income earned on other goods and services

Economic Impact

 Preliminary results (please do not cite w/o authors' permission)

	Employment (jobs)	Output	Value Added
Direct Equine Industry Impacts	32,022	\$1.78 billion	\$813 million
Total Equine Industry Impacts	40,665	\$ 2.99 billion	\$1.40 billion

Final results and report on 9/6

- Agricultural land under development pressure
- Agricultural land presents a number of "positive externalities"
 - Environmental
 - Recreational
 - Aesthetic
- Will residents pay extra taxes to preserve ag land? If so, how much?



Photo courtesy Visit Lex

- N = 8,200 Kentucky residents
- Attitude Statements
 - "I think horse farms make Kentucky a nicer place to live."
 - "I think the horse industry helps local economies."

Choice Card

 In favor of a fictitious "Horse Farm Preservation Program" that KY residents would NOT have to pay for?

Please select the option you most prefer:

Option 1 Option 2 Action: No Action is taken by the state; Action: The Horse Farm Preservation residential and commercial **Program is implemented.** development of horse farms occurs. Outcome: The equine industry in Kentucky Outcome: The equine industry in Kentucky will decrease in size by is preserved at its present size. 15% (30%, 45%, 60%) over the next ten years.

- If no why?
- If yes In favor of a fictitious "Horse Farm Preservation Program" if state income tax rate had to be increased?
 - If yes Payment card: what is their maximum willingness to pay?
 - Measured by annual tax increase
 - \$5, \$15, \$30, \$50, \$80, \$135, \$200
- Demographics
 - Gender, education, income, employed in equine industry, distance from nearest horse farm...

Preliminary results

- $^{\circ}$ >85% support the "free" HFPP
- $^\circ\,$ Of those, $>\!80\%$ were willing to pay some amount
- ~60% willing to pay at least \$50/yr
 - Results don't appear to be very sensitive to the size of the potential industry decrease

Caveats

- Hypothetical money
- Potential for sample bias



The Kentucky Equine Survey would not have been possible without widespread industry support!

Alltech

Beta-Rock Stables

Butler Schein Animal Health

Cane Run Farm

Commerce Lexington • Daniel Boone Distance Riders • Equine Medical Associates • Farmers Feed Mill Fort Harrod Back Country Horsemen

Hagyard Equine Medical Institute

Keeneland Kentucky Association of Equine Practitioners • Kentucky Dressage Association • Kentucky Equine Education Program • Kentucky Quarter Horse Association • Kentucky Hunter Jumper Association • Kentucky Paint Horse Club • Kentucky Ropers' Association • Kentucky Thoroughbred Association, Inc. • Kentucky Thoroughbred Farm Managers Club • Kentucky Trail Riders Association • Kentucky Veterinary Medical Association • Kentucky Veterinary Medical Association Foundation
• Lexington Equine Surgery
• Maplecrest Farm
• Masterson Station Equestrian Trust • McMahon & Hill Bloodstock, LLC • Merck Animal Health • Misty Ridge Farm

Mountain Pleasure Horse Association

North American Equine Ranching Information Council • Northern Kentucky Horse Network • Pfizer, Inc. • Rood & Riddle Equine Hospital • Shawhan Place • Siena Farm • Sierra Farm • Society for Arabian Horses in the Bluegrass Area • Spycoast Farm • United States Equestrian Federation • Webster Pharmaceuticals $\bullet \bullet \bullet$ and many generous individuals $\bullet \bullet \bullet$

Thank you!

Questions?

