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A Classified Bibliography of References for General Agriculture

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sense or skill to drive a car in a straight line at high speed, but it does require good judgment to steer it safely around a curve.

The value of inertia in nature is best illustrated in our solar system and in other systems like it which abound in the universe. What is it that keeps the earth moving in its orbit? All we can say is "inertia". What keeps the earth rotating on its axis? "Inertia". The gravitational attraction of the sun balances the directional inertia of the planets, otherwise they would pass off into space following a straight line path. The very existence of the solar system depends upon the proper balance of gravitational force and inertia.

Finally it is evident that inertia presents itself to us in nature in three ways; first, that of masses at rest; second, that of masses in motion; and third, that due to the direction of a moving mass. Finally we should call attention to the underlying relationship of mass and inertia. Inertia is the measure of the quantity of mass in a body. In fact in the discussions of modern physics inertia and mass are often used interchangeably. It is more difficult for a teacher to shake a fat heavy boy than it is to shake a lean thin one of the same height because the former possesses more inertia or mass. For the same reason, omitting consideration of the frictional resistance of the air and road-bed, it would take more power to start a heavy automobile than it would a light one.

L. Begeman.

(To be continued.)

A CLASSIFIED BIBLIOGRAPHY OF REFERENCES FOR GENERAL AGRICULTURE

(continued from January)

IV. BEEF CATTLE

A. Breeds and History.

1. Breeds of Beef Cattle. U. S. Dept. Agric. Farmer's Bul. 612.
2. For further information write to the following:
 - a. American Aberdeen Angus

Breeders Association, Union Stock Yards, Chicago, Ill.

- b. American Galloway Breeders Association, Carrollton, Mo.
- c. American Hereford Cattle Breeders Association, Kansas City, Mo.
- d. American Short Horn Breeders Association, Union Stock Yards, Chicago, Ill.
- e. Red Polled Cattle Club of America, Richland Center, Wis.
- f. Polled Shorthorn Breeders Association, Greenville, Ohio.
- g. American Polled Hereford Breeders Association, Des Moines, Iowa.

B. Feeding.

1. An Economic Study of Cattle Feeding Enterprise in Iowa. Ia. Bul. 242.
2. Baby Beef Production. Ia. Bul. 181.
3. Limitation of Grain Ration for Fattening Cattle. Ia. Bul. 182.
4. Beef Production. Neb. Bul. 174.
5. Winter Steer Feeding. Ind. Bul. 206.
6. Mineral Deficiency in Rations of Cattle. Minn. Bul. 229.
7. Corn Silage and Alfalfa for Beef Production. Neb. Bul. 151.
8. Rations for Fattening Baby Beeves. Minn. Bul. 237.
9. Roughages for Fattening Two-Year Old Steers. Ia. Bul. 253.
10. Economical Beef Production. Neb. Bul. 116 and 132.

C. Improvement of the Herd.

1. Judging Beef Cattle. U. S. Dept. Agric. Farmers' Bul. 1068.
2. County Livestock Breeders Association. Ia. Ext. Circ. 100.
3. Proof that Pure Bred Sires Pay. Ia. Ext. Circ. 107.

D. Management.

1. Beef Cattle Barns. U. S. Dept. Agric. Farmers' Bul. 1350.

2. Cattle Feeding In Relation to Farm Management. Ill. Bul. 261.
3. Beef Cattle Equipment. Ia. Circ. 75.
4. Dressing and Cutting Beef on the Farm. Ia. Circ. 72.
5. Essentials in the Selection of Beef. Ill. Circ. 206.

V. DAIRY CATTLE

A. Breeds and History.

1. Breeds of Dairy Cattle. U. S. Dept. Agric. Farmers' Bul. 1443.
2. For further information write to:
 - a. American Jersey Cattle Club, 324 W. 23d St., New York City.
 - b. Ayrshire Breeds Association, Brandon, Vt.
 - c. Brown Swiss Breeders Association, Beloit, Wis. or Middleburgh, N. Y.
 - d. Dutch Belted Breeders Association, Easton, Pa.
 - e. Guernsey Breeders Association, Battleboro, Vt. or 230 E. Ohio St., Chicago.

B. Feeding.

1. Preparation of Corn for Dairy Cows. Ia. Bul. 195.
2. Soy Beans as a Home Grown Supplement for Dairy Cows. Ia. Bul. 204.
3. A Study of the Organization and Management of Dairy Farms in Northeastern Iowa. Ia. Bul. 243.
4. Alfalfa Hay vs. Timothy Hay and Alfalfa vs. Bran for Dairy Cows. Ill. Bul. 146.
5. Balanced vs. Unbalanced Ration for Dairy Cows. Ill. Bul. 159.
6. Mineral Deficiency in Rations for Cattle. Minn. Bul. 229.
7. Soy Beans and Soy Bean Hay in the Ration for Dairy Cows. Bul. 239.

C. Improvement of the Herd.

1. Measuring the Value of Dairy Sires. Ill. Bul. 270.
2. Judging Dairy Cattle. Wis. Bul. 335.
3. The Judging Manual, Holstein - Friesian Association,

230 E. Ohio St., Chicago.

4. Influence of Environment and Breeding in Increasing Dairy Production. Ia. Bul. 251.
5. The Cow, and The Scrub Must Go. International Harvester Co. Bul. Chicago, Ill.
6. The Cow Testing Association, Bul. Holstein-Friesian Association, 230 E. Ohio St., Chicago.

D. Calf Management.

1. Raising the Dairy Calf When Whole Milk Is Sold. Minn. Special Bul. 91.
2. Raising Dairy Calf on Skimmed Milk. Minn. Bul. 108.
3. Manual for Dairy Calf Club Members. Ill. Circ. 322.
4. Raising Dairy Calves. Ia. Circ. 91.
5. The Cow Testing Associations of Iowa. Ia. Ext. Circ. 99.

VI. HORSES

A. Breeds and History.

1. Breeds of Light Horses. U. S. Dept. Agric. Farmers' Bul. 9952.
2. Breeds of Draft Horses. U. S. Dept. Agric. Farmers' Bul. 619.
3. Write to—
 - a. American Association Of Importers and Breeders of Belgian Draft Horses. Wabash, Indiana.
 - b. American Clydesdale Association, Union Stock Yards, Chicago, Ill.
 - c. Percheron Society of America, Union Stock Yards, Chicago, Ill.
 - d. American Shire Association, Tonica, Ill.
 - e. American Breeders Association of Jacks and Jennets, Columbia, Tenn.

B. Feeding and Management.

1. Feeding Farm Work Horses and Mules. Ill. Bul. 238.
2. Feeding Pure Bred Draft Fillies. Ill. Bul. 236 and 262.
3. The Horse and the Tractor. Ill. Bul. 231.
4. Cost of Using Horses on Corn Belt Farms. U. S. Dept.

- Agric. Farmers' Bul. 1298.
5. How to Select Sound Horses. U. S. Farmers' Bul. 779 and Ia. Circ. 47.
 6. Testing Draft Horses. Ia. Bul. 240.
 7. Hitching Horses to Get the most Work Done. Ill. Circ. 283.
 8. Big Teams on Illinois Farms. Ill. Circ. 324.
 9. Corn vs. Oats for Mules. Mo. Circ. 125.
 10. Soy Beans for Horses and Mules. Ill. Circ. 276.
 11. Farm Tractors in Iowa. Ia. Circ. 63.

VII. SWINE

A. Feeding

1. Value of Mineral Supplements. Ill. Bul. 250.
2. Feeding Pigs on Pasture. Ill. Bul. 247.
3. Mineral and Vitamin Requirements for Swine. Ohio Bul. 395.
4. Pork Production. Neb. Bul. 147.
5. Tankage and Buttermilk as a Protein Supplement. Minn. Bul. 221.
6. Why Hog Profits Vary. Ia. Bul. 255.
7. Place of Hog Production in Corn Belt Farming. Ill. Bul. 301.
8. Hogging Down Corn. Ia. Bul. 143.
9. Self-Feeders in Pork Production. Ill. Circ. 218.
10. Brood Sow Selection and Feeding, etc. Ia. Ext. Circ. 126.

B. Management

1. Sunshine and Sanitation for Hog Houses. Ia. Bul. 194.
2. Handy Equipment for Swine Rearing, Ia. Circ. 699.
3. Cheaper and More Profitable Pork through Swine Sanitation. Ill. Circ. 306.
4. Common Parasites of Hogs. Ia. Ext. Service Bul. 119.
5. Common Animal Parasites of Swine. Ill. Circ. 269.
6. The Serum Treatment of Hog Cholera. Ill. Circ. 261.
7. The Treatment of Hog Cholera. Neb. Ext. Circ. 223.

8. For further information write to the following:

- a. American Berkshire Association, 510 E. Monroe St., Springfield, Ill.
- b. Chester White Record Association, Rochester, Ind.
- c. American Duroc Jersey Swine Breeders Association, Union Stock Yards, Chicago, Ill.
- d. National Duroc Jersey Record Association, Peoria, Ill.
- e. American Hampshire Swine Record Association, 409 Wisconsin Ave., Peoria, Ill.
- f. American Poland China Swine Record Association, 609 Transportation Bldg., Chicago, Ill.
- g. National Poland China Record Co., Moorman Block, Winchester, Ind.
- h. Standard Poland China Record Association, Marysville, Mo.
- i. Ohio Improved Chester White Swine Breeders Association, Goshen, Ind.
- j. Tamworth Swine Association, Marine Trust Bldg., Carthage, Ill.
- k. American Yorkshire Club, St. Paul, Minnesota.
- l. National Spotted Poland China Record Association, Indianapolis, Ind.
Winfield Scott.

In a recent study concerning the status of the sciences in Iowa high schools made here at this college, the following interesting facts are noted as to the sciences offered. From the data furnished by 130 high schools of all sizes replying to a questionnaire, it is found that 92 per cent of the schools offer general science; 90 per cent, physics; 78 per cent agriculture; 70 per cent, biology; 51 per cent, physiology or hygiene; 21 per cent, chemistry; 5 per cent, botany; 3 per cent, zoology. Two interesting facts are shown: (1) general science is firmly established and (2) general biology covering both plants and animals has replaced botany and zoology.