average per colony, throughout the country is not much better than it was 45 years ago, and in some strains there is reason to believe that it is less. Of course this not true in certain aplaries, but I feel sure this holds for the country in general, and I am inclined to think that prolificness in some strains of this race is actually decreasing.

It is natural that we should want to know why this is. There is but one answer, it seems to me, and that is that queen-breeding in honey producing apiaries, is usually not done with a knowledge of the common principles of breeding as practiced on other animals and on plants. Careful breeders of almost every other form of domestic animals know to an ounce what their stock produces, but how many beekeepers can give this sort of a record, and it is commonly recognized by breeders that without records they work in the dark.

Breeding of both plants and animals with a view to the betterment of stock is now attracting wide attention; this work is not confined to experimental stations and wealthy individuals but the farmers of the country are recognizing the fact that there is more money in choice stock than in scrub animals. Let me quote General Burchard, associate editor of Hoard's Dairyman, a short extract of an address to dairymen of Wisconsin, what he called "The Cow Breeder's Shorter Catechism."

"Q. How many kinds of cows are there?

A. Three.

Q. What are they?

A. Dairy cows, beef cows, and combination cows.

Q. What is a dairy cow?

A. One that has the ability to turn all the food she may eat and digest, over and above that required for maintenance, toward the udder, there to be transformed into milk. Q. What is a beef cow ?

A. One that turns her surplus food into flesh and fat.

Q. What is a combination cow?

A. One that tries to take both forks of the road and never gets anywhere. Q. What causes the difference in cows?

A. Heredity.

Q. What is heredity?

A. "The biological law by which living beings tend to repeat themselves in their descendants."

Cattlemen realize that they must breed for one thing in cows, and I believe that bee-keepers should settle down to one line of selection. Honeyproduction, gentleness and color, do not necessarily go together, and the chances of finding all these combined in one colony are small. Which should Honey is the object of be chosen most bee-keeping and that then should be the one and the colony line of selection for the honey-producer. You may arrived at this by selecting prolificness, or tongue-length, but not both without great difficulty, and therefore prolificness, which is vitally necessary, should be the first consideration.

In the extensive work of the Man a bees has join Experiment Station on egg laying, in member of the N hens it has been found that some a hat the Nationa the best formed hens were poorest in lation join the laying ability and vice versa. They devery member therefore, select for number of egs i all about the and let everything else go. In the es do likewise, series of experiments they begin with a flock with an average of 120 egs excepts may per year and now have many individ at the organizat ual hens which produce from 200 t 250. This, too, has been done in a ver ust that the ed few years.

The application of statements conce ing stock may be transferred to be and, therefore, does it not seem the for the bee-keepers to arise and lo the procession? Let the honey-pr ducer drop all fads of color, gentlenes and similar things and breed pure sto for honey, an "all-purpose" | Allow me to

tution worthy started, about ganization kno Breeders' Asso both plants an in the study of ing with a vie their stock. B plants and anin have interests i absolutely no g the same princi apply to bees. claims it, yet 1 ers have seemin the information the one dollar entitles the mem ceedings worth breeder. Acco in the first volu members interes ne, and that c the last publishe he National Bee am happy to s ther person inte bees has join nember of the N hat the Nations lation join the t all about the ees do likewise. e benefits large ee-keepers may ill look into this ve it a little free worthy object, mercial enterg a do great good t because they access to the erested,