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oundation for our ees we procured the most noted e country. These in our apiary and ected a breeding ular queen was bees were very is as well as be- uniformly marked.

Besides, this queen had the power to duplicate herself in her queen progeny, a thing that not one in a thousand will do. This queen was used as a breeder of both queens and drones; by supplying the colony with abundance of drone comb, and by stimulative feeding we were able to produce thousands of choice drones, and no others were permitted to fly in the neighborhood. There being no other bees in the vicinity we were able to mate the young queens with a tolerable degree of certainty, and we stocked every colony in the yard with a queen reared from this particular breeder. The next season every queen in the yard was again superseded by a young queen from the same original breeder, all of which were mated to their half brothers.

Not being able to find another queen that would duplicate herself in her queen progeny with an equal degree of certainty the old one was used as a breeder of both queens and drones as long as she lived. As our colonies increased we were ever on the alert to discover a colony that displayed unusual qualities along some particular, chosen line; such colonies were marked for further inspection and closer observation, and if the desirable traits continue under adverse conditions, that queen was used as a breeder of queens and drones.

Thus by beginning with a single individual having the desirable traits that we wished to develop and establish, and by practising a rigid system of line breeding we have been able to develop a strain of bees of approximately uniform marking and habits, a thing that can scarcely be accomplished by miscellaneous selection and cross breeding.

Having thus laid the foundations for a strain of bees that would transmit uniform traits we have ever been cautious about introducing new blood that might undo the work of years. While we occasionally introduce new blood from the

most noted queen breeders no queen is allowed to rear drones in our yard until her progeny have been thoroughly tested. We believe we have made some progress along the line of establishing fixed characteristics, and by carefully weeding out undesirable queens and breeding from the best we hope to be able still further to improve our bees.

Concerning the theory of eliminating the swarming instinct of bees by selection in breeding, we are willing to accept it as a theory until it has passed the theoretical stage, which from all outward appearances, will not transpire in the near future. We believe we can devote our time and talent to better purpose by practising methods that will enable us to control the swarming instinct of bees. Personally, swarming has lost its terrors, for us and we have little use for a non-swarming strain of bees. However, if some of the advocates of the non-swarming theory will show me a non-swarming colony of bees I will agree to establish a non swarming strain of bees. Birmingham, O.

RAISING GOOD QUEENS IN A POOR HONEY FLOW

Index.

W. A. Chrysler.

The honey flow for this season has been small, and as to raising queens by artificial methods, it seemed to be out of the question without resorting to feeding, etc.

Having two out-yards that I wish to requeen, and so far apart that I cannot visit them conveniently very often, I hit upon a plan which I like very much and by means of which I have raised excellent queens, without feeding, and without having many details to keep track of. It is, I consider, the simplest plan for a bee-keeper who has had little or no experience in queen rearing or re-queening his apiary.