Heat Tolerance

(Continued from Page 1) the shoulder, a large dew-lap, and long ears - all trademarks of heat tolerance, it was thought.

The Indian cow, so the fallacy went, carries fat in her hump instead of spreading it all over her body where it interferes with the cooling system. Her dewlap and big ears, according to the old story, work like a radiator. When of more heat.

bulls of English breeds have burn. tissues similar to those that form the hump of Indian cat- it turns out, sweats profuse- breeder can base his selection, most of the 24-trops on which \$30 million were paid." tle, but instead of standing ly and proficiently, carries a erect, the tissues are stretch-short summer haircoat, and

covering other portions of the body.

To demonstrate the fallacy of the "fat and radiator" the- well under way, an estimated ory even more clearly, ARS \$580 million of farm crop proresearchers removed the hump duction investments are profrom Indian cattle by surgery, tected by Federal Crop Insurcut away the extra skin folds ance, the U. S. Department in the dewlap, and trimmed of Agraculture announced rethe ears to the size for Jer- cently. seys. The streamlining caused heat resistance.

the animal gets too hot, the examined by ARS ranged fenses against heat as the best body causes blood vessels in from dead wrong ("English the skin to dilate to get rid breeds lack sweat glands") to off base ("white hair coats 'Checking into the old be help beat the heat"). Actualhefs, dairy specialist R. E. ly, all cattle can sweat and McDowell and other ARS ser hair color makes little difentists found that the hump ference. Skin color, however, too cumbersome to screen said. of findian cattle contains no helps some — but it is the large numbers of cattle for Federal Crop Insurance is chants, equipment dealers, more fat than other fleshy black coloring that's prefertissues of the back. In fact, able, because it avoids sun-

The most heat-resistant cow, ed along the top of the neck. has an oily skin, Indian cat-The dewlap and ears turned tle have a higher group-averout to be poorly equipped as age score than English breeds a radiator, since there are far on all these counts; but some fewer blood vessels in these individual English animals extra skin areas than in skin have the same effective de-

Protection Tops Half **Billion Dollars**

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"This \$580 million of prono measurable lowering of tection is the highest in the history of Federal Crop In-Other widely held notions surance," reported Manager

of the Indians.

John N. Luft, of the Federal the insurance is available. Crop Insurance Corporation.

"Acreage and number of crops protected by Federal Crop Insurance have risen again this year. Over 455,000 crops on nearly 16 million acres are now insured against production cost losses from natural hazards," Luft said.

"As improved management, program, training, and promotion practices take fuller effect," he said, "we hope to increase this basic protection to a billion dollars within the next five years.

"Federal Crop Insurance

traits that help them cope a voluntary, self-help service bankers—every business and with heat. ARS scientists are offering farmers protection of profession feels the loss. "For currently searching for practical indicators on which a from all natural hazards to 000 loss claims for more than

Some specialty crops—such as citrus, raisins, cherries and peaches—are insured only against loss from particular causes such as freeze and wind damage. The service operates like any other insurance plan, with farmers paying yearly premiums based on local crop production and loss history, and with payments for loss being paid from this premium fund.

"This is a cooperative program," Luft said, "which helps growers take a businesslike now protects farmers in 1,213 approach to the problem of In theory, all that remains counties in 36 States. In coun-protecting their capital into be done to get heat-tolerant ties where winter wheat is in-vestments, their credit and lines is to interbreed animals sured, Crop Insurance field their community economic with the desired characteris. men are now taking applica- strength. When crop damage ties. But present tests are far tions for the 1366 crop," Luft hits an area, it hurts everyone for miles around-mer-

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