

VOLUME XLVIII

NUMBER SIX

THE NATIONAL GEOGRAPHIC MAGAZINE

DECEMBER, 1925

3

CONTENTS

TWENTY PAGES OF ILLUSTRATIONS IN FULL COLOR

The Taurine World

Cattle and Their Place in the Human Scheme—
Wild Types and Modern Breeds of Many Lands

ALVIN HOWARD SANDERS, D. Agr., LL. D.

With 76 Illustrations

The Cattle of the World

EDWARD HERBERT MINER.

20 Paintings in Oil Reproduced in Full Color

PUBLISHED BY THE
NATIONAL GEOGRAPHIC SOCIETY
HUBBARD MEMORIAL HALL
WASHINGTON, D.C.

\$3.50 A YEAR

50¢ THE COPY

Unique in its
atmosphere

**Golden
State
Limited**

To
California



The luxurious and congenial environment of an ocean liner translated to railroad travel.

From Chicago, St. Louis and Kansas City direct to Los Angeles, Santa Barbara and San Diego. 68 hours of luxury. No extra fare.

Mail
this

Rock Island Travel Bureaus in all principal cities.

L. M. ALLEN, Vice President, Rock Island Lines
737 La Salle Street Station, Chicago, Ill.

Please mail me copies of booklets on California and the Golden State Limited.

Name

Address



"HUKI!"
this Winter in
Hawaii

"Huki!" Hawaiian boys shout at Waikiki—"Pull, Pull!" as a great white-capped comber lifts your outrigger canoe and hurls you landward at breath-taking speed.

Try this summery vacation this winter—as unlike the rest of your year as a holiday should be—and as easy to plan and take! Your nearest railway, steamship or travel agent can book you direct to Honolulu. Steady-keeled liners sail from Los Angeles, San Francisco, Seattle, Vancouver or Victoria, B. C., in 5 to 6 days.

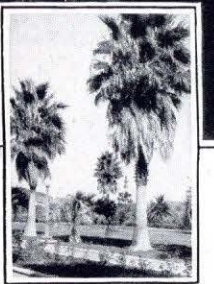
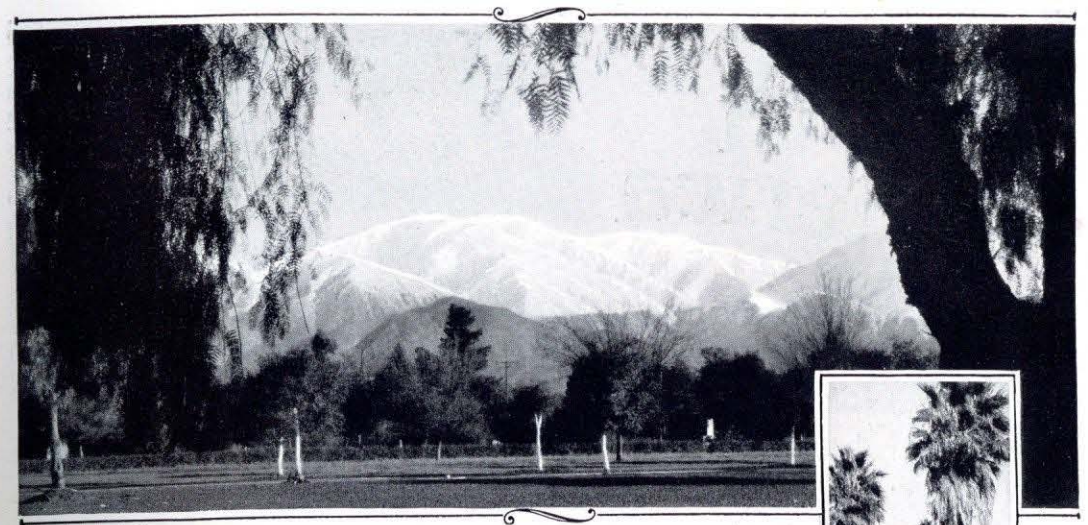
Enjoy Hawaii several weeks or months; living costs are moderate. Or make the round trip from the Pacific Coast in 3 or 4 weeks for as little as \$300 or \$400, allowing a week or two in Uncle Sam's romantic territory and providing for all travel and living expense.

Good golf, motoring, hotels, modern conveniences, on all larger islands. Tennis, deep-sea fishing, hiking, inter-island cruising; volcanic wonders in Hawaii National Park. If you wish descriptive, colored brochure on Hawaii, write now—

HAWAII TOURIST BUREAU

212 MONADNOCK BLDG., SAN FRANCISCO

341 FORT ST., HONOLULU, HAWAII, U. S. A.



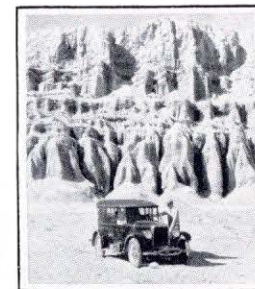
Here, This Winter—

Here, in Southern California, a myriad joys await you—a climate that robs winter of its discomforts, a countryside that smiles with flowers and orange blossoms, a landscape that yields unending scenic inspiration.

WHILE biting winds and icy pavements will like, that will refresh you, that will make you glad you came. tell of winter elsewhere, in Southern California there are balmy breezes, green hills, inviting motor roads, sun-warmed gardens, great groves of golden oranges.

Snow and ice are miles away. You'll see them on the mountain tops sparkling in the distance—a wonderful picture, and all the more wonderful because the snow and ice are there for you to look at but not to feel unless you want to go to them.

All this is but one of the features that makes Southern California different from any other place. It's the kind of difference that you



Another feature is the reasonableness of living here. You'll find resort hotels that rank with the finest in the world, more modest places, too, and apartments, bungalows, and boarding houses, and all the way through you'll discover that rates are low.

Plan now for a visit here this winter, in Los Angeles, or Pasadena, or Santa Barbara, or Riverside. There are dozens of other places you'll wish to see.

Mail coupon below for illustrated booklet or ask your nearest railroad ticket agent for further information.

Buy your ticket to Los Angeles and return by way of Santa Barbara, San Francisco, Portland and Seattle. See the Great West in one glorious trip.

Southern California

Year 'Round Vacation Land Supreme

The growth, wealth and marvelous resources of Southern California are indicated by the following facts and figures pertaining to the County of Los Angeles alone:

Value of Agricultural Products (1924) . . . \$82,588,993
Value of Citrus Products (1924) . . . 32,480,685
Harbor Imports (1924) . . . 4,136,799 tons
Harbor Exports (1924) . . . 18,131,622 tons

Total . . . 22,268,421 tons

Oil Production (1924) . . . 120,000,000 bbls.

A producing season of 365 days a year permitting year 'round crops. A wealth of water for ample irrigation and all other purposes.

ALL-YEAR CLUB OF SOUTHERN CALIFORNIA,
Dept. D12, Chamber of Commerce Bldg.,
Los Angeles, California.

I am planning to visit Southern California this winter. Please send me your free booklet about Southern California vacations. Also booklets telling especially of the attractions and opportunities in the counties which I have checked:

- ☐ Los Angeles ☐ San Bernardino
☐ Orange ☐ Santa Barbara
☐ Riverside ☐ Ventura

NAME

STREET

CITY.....STATE



Photograph by Plâté, Ltd.

THE COVERED WAGON IN CEYLON

around ownership: "If a man shall steal an ox, or a sheep, he shall restore five oxen for an ox and four sheep for a sheep."

TORCH-BEARING BULLOCKS EMPLOYED BY HANNIBAL

According to Livy, the ox played an important part upon one occasion during the Punic Wars. The Roman historian thus credits Hannibal with having effected the escape of his army from a well-laid trap set by Fabius Maximus for the destruction of the invading host: "Two thousand oxen, with lighted pine torches tied to their horns, were driven into the hills at night, thus presenting the appearance of a moving army." Under cover

of this diversion the Carthagenians slipped through the net!

In one of his most delightful sketches dealing with English characteristics, Emerson points out the intensely practical bent of the British mind and, among other illustrations of the way in which they manipulate things to serve their own purposes to the best advantage, says:

"The native cattle are extinct, but the island is full of artificial breeds. The agriculturist Bakewell created sheep and cows and horses to order, and breeds in which everything was omitted but what is economical. The cow is sacrificed to her bag; the ox to his sirloin."

One has only to see a record-breaking dairy queen, or a modern Christmas bul-



Photograph by Frank Scott

INFLATED CATTLE SKINS SERVE AS RIVER CRAFT TO THE HINDUS

lock, to appreciate the humor of the idea of a cow that has found herself turned into a mere annex to an udder of gigantic proportions, or of a fat steer that wanders about on short pegs supporting a mountain of meat!

The modification of the forms and functions of the leading types of domesticated animals through human intervention to meet various needs and differing environments was not made the subject of intensive study for many centuries. The story of Jacob's little trick upon Laban in the placing of the famous rods before the breeding cattle suggests, however, that

some attention was given by the patriarchs of old to attempts at prenatal control of the character of progeny.

The Romans were students of breeding types and the problems relating thereto, as reflected by Columella and various Latin writers. That attention was paid in Vergil's time to blood lines in the mating, and that the branding iron of our Western ranges is no new invention, are revealed by these Georgic couplets:

"Strait stamp their lineage with the branding fire;
Mark which you'll rear to raise another breed,
Which consecrate to altars, which to earth
To turn its rugged soil and break the clods."