



nia, an area of about the size of New England, New York, Pennsylvania, Maryland and the Virginias. Much public attention has of inte been attracted to Arizona and New Mexico in connection with their admission to statebood, and one gratifying result of this has been a greatly increased interest in their resources and conditions.

Excinding the populous and thrifty coast region of southern California, the southwest is the most thinly populated and least developed portion of the country south of Alaska. As shis condition is due mainly to a climate so arid that but little can be raised without irrigation, its future development is to be measured by the accilitation of the vast volume of flood waters now going to waste. This water can be applied to millions of acres of level tands with rich soil, which with the unending

sumshine of Hamild climate will respond with large and profitable 470ge

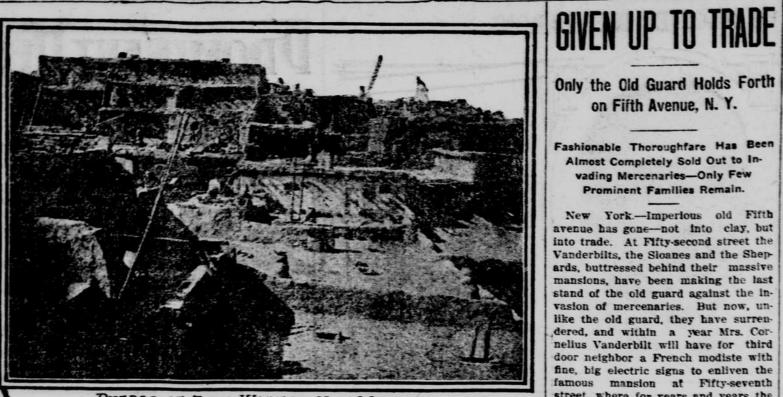
Confortunately, there is and enough water for all the land, but there is aufficient, if all some attilized, to support a population sump times as large as the presentane. Thgovernment is now *pending \$12,000,060 in revision projects in Arizonn and New Mexino which supply anter for meanly smo-half rolltions acres of fertile lands. This will give great impotant to develsponent, and in time, when acttlers take up the reclaimed intd. there will be a large increase in its agriculforal productions.

in the great coast region of southern Calsiomia, with a populaeion of mearly 600,000. the scincipal product. to the orange and other fruits, with a value

E southwestern section of the MAVAJO United States is a province CHURCH that presents many special A PRODUCT characteristics of physiograpby, climate, resources and capabilities which are not as well known as they deserve to The term "southwest" is usually applied to New Mexico, Arizona and southern Califor-



GRAND GANYON OF THE GOLORADO BEAR THE HANCE TRAIL



PUEBLO OF ZUNI, WESTERN NEW MEXICO

about 4,000 feet wide and 600 deep, with an irregular encircling rim of loose rock fragments from 120 to 160 feet high.

The petrified forests attract many disitors, especially the most accessible one south of Adamana, a station on the Santa Fe railroad a few miles east of Holbrook. There is a large quantity of the material in sight here, some of it in large logs. One of these logs spans a small draw as a natural bridge

Arizona possesses a very picturesque natural bridge of limestone spanning Pine creek, in Gila county,

discovered

el that it is rare-

ly visited. It is

cut deeply into

soft sandstones,

which rise in ver-

tical walls, with

many outlying

permanent and mostly very ancient, and their religious ceremonies are extremely elaborate and picturesque. They live in villages of several hundred inhabitants, in substantial stone or adobe houses, some of which are in groups, rising in tiers to a height of four or five stories, with streets and central plaza. They are peaceful and industrious, raising crops largely by irrigation. They have herds of cattle and sheep, and spinning, weaving and making their garments is one of their important occupations.

Work appears evenly divided between men and woman in the queblos. The men do the farming, tend to the cattle and sheep, do the hunting, build the houses, and have many

smaller trades and occupations. The women do the housework, grind the corn, make pottery, blankets and clothes.

The visitor is generally impressed by the pueblo people and pleased with the agreeable home life and simple hospitality which they readily offer.

The Interesting features of the southwest, notably the beauty of the coast region and the special climatic advantages, draw a large number of tourists and healthseekers, especially in winter, and every year sees a substantial increase in the

dry air and mild climate the southwest has be-70 miles south of come famous as a health resort, especially for Flagstaff. It does those having tuberculosis of the respiratory ornot however rigans. The percentage of cures made in New val the great Mexico, Arizona and California, great as it is. bridges recently would be much greater if a larger proportion of in Utah. Its span those who are seeking health came in time. It is necessary to come before the vitality is too is \$0 feet, its greatly diminished and then to live under height about 125 favorable conditions, the most essential of feet, and its which is to be out of doors as much as poslength up and down the creek sible.

KEEPING CHEESE HARD TASK

It Should Be Kept Under a Glass or China Top All the Year Around.

Welsh rarebits, cheese souffles and

other cheese dishes are convenient for summer, if cheese can be kept in con-

This is so difficult that dealers re-

fuse to sell certain cheeses during hot

weather, while others spoil so quickly

cheese for immediate use, any loss is

If living in the country, it is neces-

Cream and soft cheese in jars or tin-

foil should be kept in the refrigerator

sary to keep cheese on hand; though

large supplies should not be laid in.

Where one lives within convenient distance of a store buy only enough

as to be unsafe to buy.

thus up to the dealer.

dition

Only the Old Guard Holds Forth on Fifth Avenue, N. Y.

Fashionable Thoroughfare Has Been Almost Completely Sold Out to Invading Mercenaries-Only Few Prominent Families Remain.

New York .- Imperious old Fifth avenue has gone-not into clay, but into trade. At Fifty-second street the Vanderbilts, the Sloanes and the Shepards, buttressed behind their massive mansions, have been making the last stand of the old guard against the invasion of mercenaries. But now, unlike the old guard, they have surrendered, and within a year Mrs. Cornellus Vanderbilt will have for third door neighbor a French modiste with fine, big electric signs to enliven the famous mansion at Fifty-seventh street, where for years and years the destinies of social America have been swaved. It is well within the memory of

most New Yorkers when Fith avenue from Fiftieth to Fifty-ninth street was so exclusive that only the Knicker bockers could live there, whatever their wealth. Then policemen frowned creaseless trousers off the street. Now folks of all classes mingle freely, and there is only one block in all the ten where trade has not intruded. In this block within six months an apartment house with a promised height of some hundreds of feet will crown the neighborhood.

The whole story of it all is that the 'old Fifth avenue" has sold out. It has received more money consideration from trade for moving up town into the new Fifth avenue than the sentimental satisfaction of preserving its ancestral homes was worth. It has emigrated northward-or to Europe, therefore, leaving only the three Van-

derbilts, the Sloanes, the Shepards, the Huntingtons and William Rocke-



feller as representatives to battle at the last ditch or make the surrender

complete influx of visitors. Take that stroll down Fifth avenue Recause of its from Fifty-ninth street, for the fun of it. Then it was one fine long row of mansions-granite and marble and brownstone-every one a palace and as great as America can ever furnish. But now, walking down the street

until just before using. As the odor of the cheese quickly taints other foods it should be kept in a tightly covered glass or china bowl or jar. A large preserving jar with screw lid will hold several smaller jars of cheese. Do not eat cheese in summer if there is the least green mould on it. Impress this upon maids, as some of them scrape it from the edges and serve the rest of the cheese in balls

or squares. Cheeses like Sweitzer, American or certain of the English and Swiss cheeses, should be kept under a glass or china top all the year round if brought in quantities. In warm weather it is well to wrap the cheese first in a clean piece of linen wrung out of vinegar.

Care of Brooms.

With the increased cost of brooms, the thrifty housewife wishes to preserve their usefulness as long as possible. Soak a new broom for several minutes in hot suds; this not only toughens but tightens the broom whisps. Then hang it up to dry. A broom, when not in use, should always be hung up. Cut a groove around the handle and tie a cord around it, leaving a loop for hanging, or use one of the patent fasteners which screw to a door. These may be bought for a few cents. The soaking process should

be repeated every fortnight. Another housewife washes her boroms in cold soap water, rinses thoroughly in cold water, snaps off all moisture possible and pressing the corns into shape places where they will dry slowly. All matting will also last longer when occasionally wiped up with salt and water.

Little Date Pudding.

One pound stoned dates, one-half pound suet, one cup flour, one-half cup sugar, one scant teaspoon salt, one teaspoon cinnamon, one teaspoon ginger, one cup soft bread crumbs, one cup milk, two eggs well beaten.

Put the suet and dates through the food chopper together. Sift in the flour, sugar, salt and spices, add the crumbs and mix all together thoroughly. Add the milk to the beaten eggs and mix again. Steam two hours in buttered individual moids. A pudevery one inhabited by an aristocracy ding steamed in individual molds is easy to serve and attractive looking, a suct pudding is more from the park entrance, you meet fewand really better when cooked in a larger mold, where there is plenty of room for expansion.



of about \$29,999,099 a

year, while in the iniand districts the mining industry is the largest source of revenue. Portions of the southwest are richly productive of various scinerals, notably those of copper, and recently nouthern California has become a heavy producer of petroleum. The value of the copper, oil and other products of the ground aggregates about \$75,000,000 a year.

It is prohable that further exploration will disclose impe additional supplies of ores of various kinds, especially those of low grade. which will prove profitable under improved methods of reduction.

The nonthwest presents a variety of topographic features, and many of its economic ressources are closely related to them. There is great range in altitude, with corresponding surintion in elimatic conditions. One of the court ralient features is the wide, high plateau of northern Arizons, which reaches an altituie of 8,900 fest. It is surmounted by vari--us volcanic peaks, notably San Francisco peak, which is \$2,611 feet above sea level.

To the east this district merges into an pregular series of high plateous, constituting the western half of New Mexico.

To the west and muth it drops by hugsteps into the great region of desert valleys or holsoms of Nevada, western Arizons, and southeastern California. These deserts are wide, long plains, lying between mountain ridges of varying lengths and heights, ridges which are all very rocky and mostly treeless and trend north and south.

Disgonally across southern California there extends the long curving ridge of the Sierra Madre and San Bernardino mountains, between which and the ocean lies the large oval area known as the valley of southern California. This valley is the great citrus fruit districi, and Los Angeles.

There are two great rivers in the south ment, the Colorado and the Rio Grande. The Colorado river has been compared to the Nile and the similarity is notable. Both are elreams of the first rank, rising in high mountains, and finally crossing a broad region of semi-tropical, nearly rainless deserts. Both empty into seas in nearly the same latitude, and their lower courses are through wide deltas of fertile soil. The annual overflows add new sediments fertile with plant food and at a time favorable for the crops.

The agricultural capabilities are closely similar, but while much of the lower Nile valley is utilized the Colorado valley is just becinning to be settled. The watershed area of the Colorado, with its two head branches, the Green and the Grand, is over 200,009 square miles, its course 2,000 miles in length, and its annual discharge is 11,000,000 acre-feet, or enough to cover that number of acres one foot deep

The additiont which it carries each year into the galf is estimated to be sufficient to cover 53 square miles one foot deep. For 200 miles of its course across the high plateau of northeastern Arizona it cuts the wonderful Grand canyon, which in places is nearly a mile deep. South of the enuyon it flows mostly to broad valleys, but cuts through several des-

Handed Down From the Past. The fear of the dark has lasted long after the reason for that fear has cone. Just as the dog's habit of turatog round and round before he lies down to sleep has lasted since the time when his ancestors, the wild evidently led from the old abbey. colfdoes, used to turn round and A workman, while digging at a were found to be damp and clammy. To other large animals. All the bones round in the deep drifted leaves of depth of ten feet, drove his pick into and the floor was covered with a thick and skulls are charred. the forest to make warm, sheltered some soft stonework, and after the carpet of spongy substance, into beds to sleep in. The habit has lasted iong after the need for it is over, and sage was revealed. It was found that distance of nearly 20 yards the pas-to have been built in A. D. 679 by nel of communication from the abbey age is clear, and at either end of this Erkenwald, who afterwards became to the waterway and thence to the

ert ridges, finally passing out into the wide delta plain extending to its mouth. The Rio Gran de is a large river rising in the mountains of

Colorado, traversing New Mexico from north to south, and finally constituting the boundary line between Texas and Mexico. The definition

of a desert given by the dictionaries, "a dry,

tants," is defective, and the idea that it is necessarily flat is erroneous. Most portions of the average desert bear an extensive, though somewhat widely spaced, flora. Many desert regions contain numerous settlements, the Sahara desert for instance having a population of 2,500,000. Loose sand is a minor feature, and much more prevalent on the seacoasts and along the bottom lands of rivers. There are wide areas of bare rocks, and the larger deserts include mountains, ridges, mesas and deep Canvons.

of very scanty rainfall, parts of them having only three inches a year and evaporation of eighty inches or more.

This canyon is the mile-deep gorge cut by the Colorado river across the high plateau of square miles filled with an endless variety of tiful colors. On the sky-line, ten to fifteen miles away, is the edge of a wide-reaching plaone's feet.

not until one has been down to the bottom of the canyon at the river level that any adequate

The canyon was discovered by Cardenas, who went to its edge in 1540 on a branch trip from Coronado's expedition, on information obtained by Tovar from the Hopi Indians. The original name given to the river was Tison, Spanish for firebrand, and it is to be regretted that the name has not been retained to avoid the present confusion due to the river having the same name as the state.

Coon butte, another of the greatest wonders in our country, is also situated in the southwest, but owing to its distance from the railroad it is seldom visited. It is a great craterlike bowl in the plateau, about ten miles south

CAPTAINS OF THE GANYON HORTHEASTERN ARIZONA

pinnacles and monuments. Some of these feasandy region without vegetation or inhabitures appear also in the great wall of red sandstone on the north side of the wide depression through which the Santa Fe railroad crosses the continental divide east of Gallup. One of the most remarkable pinnacles of this wall is fancifully termed the Navajo Church. Few persons who travel across the southwest realize that in Arizona and New Mexico there are enormous forests of valuable timber and that the lumbering is an important indus-

The deserts of the southwest are regions

northern Arizona. The view from the rim reveals the most stupendous panorama imaginable, for one sees into an area of about 600 most rugged topographic forms of many beauteau, and in the middle ground of the picture flows the Colorado river, nearly a mile below

The features are so gigantic and so plainly in view that all sense of scale is lost, and it is sense of proportion can be gained.

of Canvon Diablo station. "The crater" is

EXPLORING BARKING ABBEY

In the course of excavations for a | some eight feet six inches high and

subsequent collapse of earth the pas- which the feet sank slightly. For a

Probably there is greater popular interest in the pueblo people, for their settlements are

presumably, by the character of the

structure itself. Two smaller pas-

sages turn off the first passage, and

try. In both territories there are several large

forest reservations, and one of these in Arl-

zona, the Coconino forest, with nearly 6,000

square miles, is the largest single reserve in

the United States. The total forest area re-

served in Arizona is 15,250,130 acres, or more

than 24,000 square miles, and in New Mexico

there are 10,971,711 acres, or more than 17,000

square miles. Southern California also has

The Coconino forest in Arizona occupies

The visitor to the southwest usually takes

part of the great plateau in which the Grand

Canyon is cut, and extends to the brink of the

keen interest in the Indians, who are numer-

ous not only along the main lines of travel.

but in many remote villages. Some tribes,

notably the Apaches, who continued to be

troublesome until a relatively recent date.

have become famous for the misdeeds that ma-

terially retarded the development of Arizona

and western New Mexico. Now, however, all

is peace and tranquillity. The newspapers, es-

pecially eastern ones, occasionally print ac-

counts of uprisings, but these prove to be local

kinds, differing greatly in most of their char-

acteristics. One is the nomad type, represent-

ed by the Apaches, Navajos, the Yumas, Pa-

agoes and Pimas, and smaller tribes; the

other is the pueblo type, which is comprised

of 26 pueblos, or villages, scattered through

central and western New Mexico, and in the

Hopi reserve, in northwestern Arizona.

The Indians of the southwest are of two

quarreis with a few individuals.

several large reserves.

canyon.

Many health-seekers spend most of their is over 400 feet. money in railroad fare to reach the desired Canyon de resorts. Physicians do a great wrong to pa-Chelly is one of tients in sending them so far from home, the most notable friends and care without means to provide scenic features in suitable quarters, nourishment and attention Arizona, but it is to sustain them while making their fight so far off the against death. main line of trav-

siderable variety, but in all the lower lands the winters are delightfully mild, and everywhere blue sky is in evidence for more than 300 days in the year. The summers are warm: in the southern desert area they are decidedly hot for several months, but the dry air even then is much more endurable than the sultry summer weather of the eastern and central states. Sunstroke is unknown, and laborers continue their work without distress.

The valley of southern California is protected from the cold northern winds of winter by high mountain ranges, while to the south it is open to the Pacific. Owing to the pecullar configuration of the coast the cold California current from the north is deflected west near Point Conception, and hence the southern California shores have waters warmer by about ten degrees than those to the north.

This beneficent climate is responsible for the giant industry of fruit growing which has made California famous over the globe. California furnishes the major part of the very large amount of oranges and other citrus fruits consumed in the United States, and this business has been the potent cause in the development of southern California.

The orange and other citrus fruits of southern California have an output of about

30,000 carloads a year, with a net value of more than \$15,000,000. East of the mountains in southern California is an extensive desert country, much of

it without water, but large areas can be reached by ditches from the Colorado river. The most notable district of the sort of in the Salton desert, near the Mexican boundary. A few years ago this was a lonely and forbiddag region, but now, by aid of irrigation from the Colorado river, it has several thriving settlements, with 100,000 people and 200,000 acres of cultivated land. That portion of it known as Imperial valley has the greatest development, and with rich soil and semi-tropical climate phenomenal results have been obtained when water is applied.

One of the best known products of this region is the canteloupe, of which the annual shipments are over 1,800 cars, bringing nearly a million dollars. This valley contains over 400,000 acres of land, and just across the Mex-Ican line are 200,000 more.

The great oil fields of California are in the southern part of the state, and with rapidly increasing production they promise to be the largest producers in the country.

of Big Prairie, died a few hours after a fall of earth and in the other case, Ethelberga became first abbess at Barking. It was the first nunnery established in this country. In A. D. \$70 the Danes destroyed it by fire, and it lay desolate for a century until re-

new street at Barking a subterranean about six feet wide. Exploring par- found half a dozen human skulls and passage was discovered which had ties have investigated the interior by a quantity of bones. Among the latstored by King Edgar. Many memthe aid of candle light. The wails ter is a number of jaw bones of horses bers of royal families were among its abbesses. From the fact that the main passage runs in the direction of Barking creek, a short distance away. The Abbey of Barking is reported it is believed to have afforded a chan-

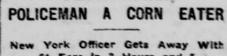
arched celling of a stone built passage stretch it is blocked, in one case by Bishop of London, and whose sister Thames.-London Standard

er mansions than shops even for the first three blocks. A count shows five brokers, three real estate offices, two corset concerns and a French modiste between the Plaza and the residence of Mrs. Cornelius Vanderbilt to the south. And in Fifty-seventh street. not far from the Vanderbilt mansion and just west of the Harry Payne Whitney, residence, the famous old Oliver Harriman mansion is to be made

over into a store for a dressmaker. The fact that this new neighbor is said to The climate of the southwest presents con- have been a Virginia beauty before she entered the trade, however, may ap peal to the social taste of the Whitnevs and Vanderbilts.

Just below, the famous old Andrew Zabriskie house has gone into the hands of Schumann's sons, who are making it over into fine business quarters, with apartments above. And right there, also, is the Collis P. Huntington mansion, with a new gilded art

shop across the way. This little jaunt down Fifth avenue shows, in addition, an amazing display of glittering signs, with stately backgrounds of brownstone and marble, advertising trade where New York's real society used to hold levee. Signs are everywhere. One of them even advertises coal from the basement of an old mansion that wreckers are destroying overhead.



61 Ears in 3 Hours and 5 Minutes.

New York .-- Policeman William Ornstein won the \$10 purse and the corn eating championship of the world when he disposed of sixty-one ears of the succulent "roasters." "Red" Dugan, former champion, who has been driving a horse and was out of form. did not much more than run half way to Ornstein's figure. William Schwartz who has always been a rival of Dugan, was merely an "also ran."

Ornstein is a newcomer in the corr eating field. After the feat he an

nounced that he had "saved" some room if any contestants came late." The corn eating contest was the event of the season on the East side Edward Rozenstein, known all over the East side as "Rosy," had ar ranged the event. It was in celebra tion of his forty-eighth birthday, and took place in his saloon at Broome and Clinton streets.

Ornstein is ready to receive chal lenges from all comers.

Headache Powders Kill. Wooster, O .- Mrs. D. J. C. Hanna

taking an overdose of headache medi cine. Suffering with a severe pain the woman went to her husband's medicine case and took a tablet. It had no effect and in half an hour she took another. There was enough poison in the two tablets to cause her death in spite of her husband's ef-

forts to save her. The Reason It Aged. "I have kept this whisky twenty

years." "Gee! You must have known what kind it was!"

Chopped Piccalilli.

Chop one peck of green tomatoes fine. Sprinkle with one cup of table salt and let stand over night. Drain, add one quart of finely chopped green peppers, first removing the seeds: one quart of finely chopped onions and three cups of brown sugar. Put into a small cheesecloth bag one tablespoon of whole cloves and three tablespoons of broken cinnamon, one tablespoon of white allspice and four tablespoons of white mustard seed. Drop the spices into sufficient vinegar to cover the pickle and simmer several minutes, add the vegetables and cook slowly until tender. Remove the spice bag from the pickle before sealing in jars. Keep in a cool, dark place.

Angel Cake Hints.

A loaf of angel cake hollowed out and with the crusts removed to give a snow-white appearance makes a charming holder for ice cream. A snow-white cream flavored with almond and decorated on top with bright red candied cherries, a delicate pale green cream flavored with pistachio and decorated with pieces of green an gelica or a strawberry cream of deli cate pink-all look charming in such a receptacle. Individual cups of angel cake may be used for a change and the ice cream within them topped with whipped cream.

Sweet Apple Pickle. Twelve pounds of sweet apples. pared and quartered, four pounds of sugar, one ounce of cinnamon bark, one-half ounce of cloves, one pint of vinegar. Put spices in a cloth, tie up, then boil vinegar, sugar and spices well; add apples and boil 20 minutes. Put apples in a jar, boil syrup until thick and pour over them. Simply delicious. Pears are also good prepared this way. Use winter sweet apples, also winter pears.

Feather Biscuits.

One pint of flour, two tablespoon fuls of baking powder, a pinch of sait, one tablespoonful of lard, one tablespoonful of butter and a cup of sweet milk. Mix flour, salt and baking powder, rub in the lard and butter and moisten with the milk. Cut about half-inch thick and bake in a quick oven twenty minutes. They never fail.

Fruit Sandwiches.

Butter either brown or whole wheat bread on the loaf, slice very thin and cut for sandwiches. Put ripe bananas. cut lengthwise, in thin slices. Cut slices in halves and arrange a layer in each sandwich with a crisp lettness leaf next to bread. Sprinkle lightly with salt and a few drops of lemon juice.

To Clean Silver.

Discolored silver may be easily cleaned in this way: Crush a teaspoonful of rock ammonia and pour over it half a pint of boiling water. When cold bottle, and use to moisten the plate powder. Leave the plate powder on the silver for half an hour and then brush off.