DESERET EVENING NEWS: SATURDAY, DECEMBER 21, 1901.

enstern purp of the state to photos, the the western part containing no and of the year by 250 square miles, principally metra in tainous. The plains, with the reacht, strip of undulation courses on the in-

6

width from fifthed to Theath " a set eastward from the lost of a stre erally level and ard) it the depressions which are drainage of this year of a less land. Those in sometimes excession rainy seasons, hiel alors with the names of an but for the most point W. creek without water Starting from the forst 1 12 1990 county, and rushing tipes, etc. pb-110-1 of El Paso, Dourlat, Elu-or and Avcolm counties warm and to the flatter state line; is a tance of burn which is known as the 'Divides' It is an ite portant feature in Columbula stituted structure, and server the purpose al dividing the eastern or plains, pacing of the state at its center. It is partly Denver is the twenty-fifth city in of great profit, the fail and continued covered with valuable thuber, and com- point of size. Twenty years ago Den- depression in the price of the metal to

one-third (about three-didition of the state alwer discoveries of the state, and in meansable in recent years in affordminin canyona to the mining and beyond these to the new of industry in the All the and streams have their source in instral portion of the state flowing west, north and south. Their Maries are the creeks and smaller mus that rise along the mountain throughout the entire mostern. WIAL CENSUS OF COLORADO. monfleial census gives Detter City milation of 133,859 compared with for 1890. But every I val Den--and all appear to be loyal-will ir that the city has 160,000 inhabi-He will add, too, that it is using at the rate of 10.000 a year. - population of the state from 1860 decades is shown as follows:

24.277

western slope are also included in the as a general source of water supply. | in 1879. By this time the army of pros- | ing men of the state, and led to the western slope are also interesting of they have been especially useful in pectors had stopped the search for wonderful carbonate discoveries at mountain division, which it is wonderful carbonate discoveries at plains there are to be spen sum provide the work to the gold and turned their attention to the Leadville, of which little was known plains there are to state and because of the state and an incording the way to the great gold discovery of lead-sliver properties. In until 1876, That year practically marked an incredibly short times the mines the opening of an era in the mining inyielded silver in excess of gold, and dustry that has made Leadville and e notes for the railways through the the state stood at the head of the list Colorado famous the world over. The as a producer of silver.

> verse legislation, the market price of produced that year. In 1880 the producsilver declined until the demand for tion was \$15,095,152. Exclusive of \$20,new silver mines was practically at a 000,000 produced from California Gulch minimum. Prospectors again turned and neighboring placers in earlier their attention to a search for gold. As a result, Colorado, for gold produc- in gold, silver and lead from 1879 to tion in 1897, became the recognized 1892, inclusive, was \$179,710,207. The leader and maintains that position, with large annual increases. The transition of the state's production of precious metals from gold to price of sliver and the closing of all

not only a tribute to the limitless recitizens. It not only demonstrates the | 1893. ability of both to meet the demand, but to take the lead in supplying the metal demanded. In this connection it 29.884 should be borne in mind that Colorado 194.327 has never ceased to be a large producer 539,700 of silver, and the industry is still one

first operations on an extensive scale From 1879 until 1889 the search for began in the Carbonate Camp in 1879, silver mines continued. Through ad- and \$10,333,750, mostly in silver, was

years, the yield of the Leadville district average maintained was about \$12,500,

000 a year. In 1892 the production dropped to \$8,000,000, due to the low silver, and later from silver to gold, is the large producers, owing to adverse legislation, culminating in the general sources of the state, but also to her demoralization of the silver interests in

RETURNING TO GOLD.

In the readjustment to new conditions after the crisis of 1893 the miner turned again to the search for gold. Important discoveries had already been made at Cripple Creek; gold was found intermingled with silver in the mines of the San Juan, and the Ouray and Telluride districts were growing in fame as well for their riches in the yellow as for their whilom wealth in the white metal, while Glipin county steadfly pursued its unwavering course in the production of \$2,000.000 and over each succeeding year in gold. The mines of the Leadville district were again started and production was largely from the reserves of silver ore already blocked out. While this was the general condition of all properties producing lead-silver-tron ores, the Breece Hill mines and the surrounding propertles, within the area locally known as the "Gold Belt." were opening unprecedented ore bodies carrying high gold values. With deeper and more extensive development in these mins. besides the many new lodes that have been and continue to be discovered within the old limits and in the widening limits of new territory, gold discovery continues and the veins increase in richness as depth is obtained.

CRIPPLE CREEK.

"The Mining Marvel of the Age" is one of the many terms applied to the great Cripple Creek gold district. To begin to relate the history of its rise and progress, or tell the story of its famous mines, would imply the exclusive monopoly of all the remaining pages of this paper.and it would be but the repetition of the story that has been written over and over many times and read in every land. It may serve the present purpose to say that until 1890 the forty square miles of hills and valleys comprising



CANYON OF THE GRAND RIVER.

of dollars.

One of Nature's Greatest Wonders.

An extensive branch of the Griffin

Car Wheel works of Chicago, the larg-

est establishment of the kind in the

world, is located at Denver. The

wheels are made exclusively or Colo-

rado iron, and form no small part of

the rolling stock of all the great rail-

way systems traversing the western

One of the most courageous enter-

half of the continent.

value of the products of the various ; tervals, the pioneer farmers built the

workers in iron reaches into millions homes, cultivated the lands and lat.

road era.

the foundations for the splendid ear-

cultural development of today. But

the extension of agriculture in a gen

eral way and the planting of cerea

upon the uplands, except to a very

limited extent, did not occur und

about 1870, which ushered in the rat

SUGAR IDEAS FROM UTAH.

One of the more recent triumphs for

Colorado is the sugar beet industry

 Silver
 352,743,038.09

 Lead
 101,672,419,70

 Copper
 13,904,348.86

MANUFACTURES. With the exception of Pueblo,

which is coming to the front at a rapid pace as a manufacturing center, Denver distinctively leads the state, At Pueblo, the great anti-trust concern, the Colorado Fuel and Iron company is now expending some ten or twelve millions of dollars in the extension of its plant, the greatest in America, west of Pittsburg. Last year this company produced \$12,000,000 worth of iron and steel. This year there will be a large increase over these figures. This company is essentially a western corporation, only a few years old, owns millions in coal and mineral lands throughout the country. It is said to have important holdings, through its agents, in Iron county, Utah.

For metal work of all descriptions there are no less than ten foundries and machine shops in Denver. Seven of these engage extensively in the manufacture of mining machinery, while structural iron and steel and electrical works of all descriptions form a large part of their products. Other important establishments manufacture ornamental and architectural iron and what is regarded as the Cripple Creek | all kinds of wire works, and the total

prises in Denver is that of the two which she learned so well from Utah large paper mills and sulphide fiber | Said President Boetcher, of the Nation



IN PERRY PARK

Forty-four Miles South of Denver.

plant for the manufacture of news print | al Bank of Commerce, himself one of paper and paper for commercial use, the big sugar men of Colorado, to a a cost of \$570,000, the sulphide mill in weeks ago:

These mills were completed in 189? at representative of the "News" a few "Had it not been for the useful lessons we learned from those sturdy pioneer sugar producers in Utah, we probably would not have manufactured a pound yet. We watched their experiments, visited their farms and the factory at Lehi and saw that the success you folks were making there could be duplicated in Colorado, so we went

A GROUP OF UTE INDIANS.

A Tribe of Red Men Well Known in Both Utah and Colorado.

ալ մխինչներություններին խորհերին ինչներությունը հերկաներին հերկաներին հերկաներին հերկաներին խորհերին հերկաներին Հայտներին հերկաներին հերկաներին հերկաներին հերկաներին հերկաներին հերկաներին հերկաներին հերկաներին հերկաներին հեր

season. At the summit of this range | forty-two show increases in population | is the famous Paimer's Lake. From since 1890, and in some of them the this point the waters flow north and percentages of increase are very large, south down through the plains, as do all | namely: Otero, 174.8 per cent; Archu!watercourses of the plains, northward | eta, 156.2 per cent; Bent, 132.2 per cent;

cent; Hinsdale, 86.6 per cont, and San

Miguel, 84.9 per cent. The fifteen

watered by rains throughout the crop Of the fifty-seven countles in the state,

to the Platte and southward to the Mesa, 117.5 per cent; Delta, 156.5 pe cent; Morgan, 104.1 per cent; Monte-Arkansas.

The mountains have physical features zuma, 100 per cent; Prowers, 91.2 per of varied and peculiar interest. The Continental Range crosses the state nearly north and south, near its center. Here the Rocky Mountains attain their greatest elevation-200 peaks nearly 13 000 feet high, and about twenty-five peaks from 14,000 to 14,400 feet | and Yuma. high, being visible from Mount Lincoln. Between latitudes 30 deg, 30 min, and 40 deg. 30 min., which is nearly the three parallel ranges, running nearly north-northwest. The east one, called from Denver, appears to rise abruptly Torrey; Gray's Peak, Mount Rosale, from 14,000 to 14,340 feet hgh, the latter | wealth. altitude belonging to Mount Rosalie.

WATER COURSES.

Within the mountain division of Colosprings, which, starting in little rivulets from the snow banks at bofty altitudes, or percounting through the tooka from miniature inters islog betaillors and patto their forces in the

Arknows, not seath Plates, gas real standid work in the development of

counties showing a decrease are Baca, Cheyenne, Clear Creek, Custer, Dolores, Eagle, Klowa, Kit Carson, Ouray, Park, Phillips, Pitkin, Sedgwick Washington COLORADO'S RAILROADS.

The growth of that portion of the United States west of the Missourl rivcentral portion of the State, the chain | or is due not so much to the attractions is about 120 miles broad, consisting of of gold, the charms of climate or the fertility of the soil as to the railways, which have made these natural advanthe Front, or Colorado Range, as seen | tages available and of benefit to civilization. The pathfinder of the many from the plains, stretching with snow- great lines which now thread mountain clad summits from Pike's Peak on the | and plain was the Union Pacific railsouth to a group twenty miles north | way, built over a barren, uncivilized of Long's Peak, a distance of 120 miles. | waste, since transformed, through its Six of its peaks-Long's Peak, Mount | aid to immigration and industry, into a country richly productive and won-Mount Evans and Pike's Peak-are derful in its boundless possibilities of

Then came the Denver and Rio Grande and Rio Grande Western, now under one system, with their marvelous rado there is an abundance of water | push and enterprise, bringing wealth in its numerous rivers, creeks and and glory to the state. Right well is It called the "Scenic Line of the World," it has scaled the cliffs, penetrated the cupyons, climbed the mountains, leaped civers and traversed the valleys of

Colorado so completely that there is scarcely any scene of grandeur so hid-I'm by nature that It has not been brought plainly and easily luto view. In addition to these there are a Thus the ards principal elementics winder of other callroads all doing a

FROM GOLD TO SILVER.

Thinking the advent of the callways "Characters. Walds form to 155 reputed tith fords of gold and the river system of the or in the San Jush modelion in 1872, a line overy of lead the store, carryavailver, in Leads 514, an era bling railroan reduction

began, which a climax in a printer of the

ered, by cheaper rates of transportation and smelting, and by the success- cident, one of his employes found goldful treatment of low grade ores by the many processes of modern invention. upon a bed of trifling value. During The annual production steadily aggregates a value of \$12,000,000 to \$13,000,-000, and was \$12,488,774 in 1900. DISCOVERY OF CARBONATES. In a general sense the discouraging

aspect of mining in the first decade relates to that period between 1864 and 1870, when, as it was supposed, all the highways of commerce and exchanged placers had been well-nigh exhausted and when the inlners were confronted with the impossible necessity of penerating the mountain depths through te stubborn rock in the ploneer camps C. Glipin and Clear Creek counties. In the meantime the discovery and wonderful revelations of California Gulch, which forms the southern boundary of the city of Leadville, had paved the way to redemption for mining and all other industries of the territory. With only the primitive appliances of those days, not less than \$15,000,000 were washed out of the sands and gravel of the gulch between the years 1859 and 1865. Thus it was that between 1859 and 1870, before the era of real mining many, laid the foundation of fortune for | of Mines:

a large extent being compensated by | district proper, was only known as the the mining of gold and other metals in cattle range of Mr. J. A. Myers, a combination, by the large and easily wealthy real estate dealer and capitalavailable bodies of silver ore encount- ist of Denver. By one of those simple occurrences which we choose to call acbearing float, and dug a prospect hole the ten years following and ending in 1901 not less than \$100,000,000 in gold have been taken from the mines of the district. A large portion of the coin has returned to the mines for the development of still greater fortunes, but vast sums have been diverted to the for the utilities that have added many years' advancement to the state. CAMP'S TOTAL PRODUCTION.

(As you Smalter Detumn

	See.	per	SII	ener	nera	110.)
1891				*****		\$ 200,00
1892	14 X 14					600,00
1893			1.10			2,100,00
1894		1.114	****		· · · · · ·	3,000,00
1895	8 A.A	15.554	1.164	11.22.23		8,000.00
1896			ie. 14			10,000,000
1897						12.500.00
1898			×1.24	16.64		15,735,76
1899	111.11		****			20,000.00
1900	er als				carrier	22,500,000
1.0	tal	in 1	ten	year	8 1. L.L.	\$94,635,75
Estim	ated	for	1901		indi	
m	TTA I	0		-	ODU	CTION.
10	TA	1 23	AT	E PI	CODU	CHION.
The	foll	owit	ng t	able	of m	ineral pro-

development began, the aggregate min- duction for Colorado beginning in 1859 eral production of Colorado had reached and ending in 1900 is embraced in the the sum of \$37,583,081. California Guich | annual report of Commissioner H. L. restored the waning confidence of Lee, in charge of the Colorado Bureau

1893 at a cost of \$250,000, and the combined plants constitue one of the largest establishments of the kind in the United States. These mills furnish a large part of the supply for the Denver trade, besides having a large market throughout Colorado and the adjoining states.

The cotton mills, with 20,000 spindles and 500 looms have reached an annual product of 9.000.000 yards. Brown sheetings, canton flannels, bagging, outing flannels and ladies' dress goods. the latter to a limited extent are the manufactures. Altogether there are not less than 500 establishments in Denver where the various articles manufactured enter into the commerce of the country.

AGRICULTURE.

During these earlier years, as immigration increased, settlements multiplied along the rich valleys of Boulder Creek, the St. Vrain, the Little Thompson, the Big Thompson, the Cache La Poudre, the Platte river and others of its tributaries forming the Platte valley, which with the Poudre, forms the great agricultural center of Northern Colorado, within the counties of Arapahoe, Jefferson, Boulder, Latimer and Weld, and now extending from the base of the mountains to the northeastern limits of the state, all this rich section of country being traced by the lines of the Union Pacific railway, the pioneer builder and among the earliest promoters of agricultural development in the state. It was upon these historic grounds that, while still the savage red man held dominion of the plains, the spirit of agricultural terprise first found a permanent of ing, and in the valleys of all th

streams, scattered about at wide



SQUAW AND PAPOOSE.

to work with a will and this year we will produce an estimated total of 155.-000,000 pounds."

FINANCES OF THE STATE.

The following, from the abstract of assessments by counties, epitomizes the growth in assessed valuation from 18.7 to 1901:

en-	**	And
-bid-	Year.	Ass'd, Valuation.
otd.	1877	
1080	1809	000 100 000 00
A.4. 19714	LOUGIASISATS STITE	203,486,692.00
in-	1900	916 776 256 00



PIKE'S PEAK FROM THE GARDEN OF THE GODS. Named in Honor of Lieutenant Zebulon Pike, an Intrepid Colorado Pioneer.



MARSHALL PASS - AMONG THE CLOUDS. Scene on the D. & R. G. Altitude, 10,858 feel,

for internal and the set of the



CASTLE GATE, UTAH, ENTRANCE OF THE R.G. W. TO PRICE RIVER CANYON.

range, stands Castle Gate, similar in many respects to the gateway in the Garden of the Gods. The two

huge pillars, or ledges of rock composing it, are offshoots of the cliffs behind. They are of different

heights, one measuring 500 and the other 450 feet from the top to the base. They are richly dyed with red

and the firs and pines growing about them, but reaching only to their lower strata, render this coloring,

more noticeable and beautiful. Between the two sharp promontories, which are separated only by a nar-

row space, the river and the railroad both run, one pressing closely against the other. The stream leaps

over a rocky bed and its banks are lined with tangled brush. Once past the gate, and looking back, the

bold headlands forming it have a new and more attractive beauty. They are higher and more massive, it

seems, than when we were in their shadow. Huge rocks project far out from their perpendicular faces. No

other pinnacles approach them in size and majesty. They are landmarks up and down the canyon, their

lotty tops catching the eye before their bases are discovered.

Guarding the way to Price Liver Canyon, through which the railroad runs into the very heart of the