building material of substantial qual- Northwest Iowa, especially in Sac, encouraged and his business enlarged. No better clays can be found for the manufacture of the finest quality of doubtless furnish the raw material for pressed brick than are now obtained in numerous places in this state." Snperior clay for the manufacture of tery is found in numerous places.

Gypsum is found along the Des Moines river in the vicinity of Fort Dodge, Webster county. About three miles south of Fort Dodge, including the bluffs on both sides of the river, is the largest and most important deposit of gypsum yet discovered in the United States. It is found here not in "heaps" or "nests," as in the states farther east, but in the form of a "regularly stratified, continuous formation as uniform in texture, color and quality throughout the entire region from top to bottom of the deregion from top to bottom of the de-posit (about thirty feet,) as is the the cretaceous series of this section, granite of the Quincy quarries in New is intensely interesting to the student England."\*

This bed of gypsum extends about seven miles along the river and is apparently inexhaustible. The rock is of a gray color, but becomes quite white by grinding and still whiter by the calcining process necessary in the preparation of plaster of Paris. It is used as a building rock, a fertilizer and for the manufacture of stucco. In the latter form it was very largely used in the manufacture of "staff," that formed the external covering of the World's Fair buildings in Chicago in 1893. This gypsum industry gives employment to about sixty men and the annual production is about \$55,000.

# CHALK.

There is a deposit of chalk in the vicinity of the Big Sioux river, in

\*This bed of gypsum is found under the drift and over the coal measures; it is therefore older than the former and newer than the latter. It contains no fossils and seems to be a formation of the Mesozoic age.

ity, and so the brick-maker's art is Woodbury and Sioux counties, that is as valuable as any in England and that, in the not distant future, will number of important manufacturing industries.

This chalk formation consists of stoneware and the finer forms of pot- fine calcareous layers not unlike clay, and has a thickness of 25 feet along the Sioux river in Iowa, 50 feet at Ponca, Nebraska, 130 at Yankton, South Dakota, and 200 feet at the mouth of the Niobrara river. This rock, wherever it is exposed, is of a pure white or yellowish color, soft in texture and may be quarried in great blocks that are easily cut with a common saw into any required dimension. It is composed of the more or less broken skeletons of the little shell creatures called Foraminifera and of minute coralline plants known as Coccoliths. It is formed only in the bottom of a clear, open sea, remote from land, flood deposits or other disturbances.

of Nature, since it proves beyond a doubt that this whole region was once the bottom of a wide and deep sea. It rests upon a bed of Dakota limestone, an accumulation that was doubtless formed when the region about Sioux City was covered with shallow, brackish water. "The sand composing this deposit was carried into the sea from land that was not very far away, probably only a few eastward. The sea miles between was not stationary, but was slowly subsiding, the rate of subsidence being greater, however than the rate at which the sandstone accumulated.

"As a result of the subsidence, the sea became deeper over the given area, as at Sioux City, and for the same reason encroached gradually upon the land, and the shore line became more and more remote. With increasing depth of sea and increasing distance of the shore, the coarser sand failed to reach Sioux City. Only the finer mechanical sediments were carried so far seaward. The waters deepened still more over the site of Sioux City until the bottom was no longer affected by waves and currents, and the shore line, now east

of the middle of the state, was so remote that practically no flood material from the land found its way to the area we are considering. Neither sand nor clay was deposited in any appreciable amount as far west as Yankton, St. Helena or even Sioux

Citv.

Now it was in this clear, open, quiet sea that the Niobrara chalk was slowly deposited. The little shell creatures called Foraminifera, flourished upon the bottom of it or serenely floated in its depths. And either floating or resting upon the bottom, were the peculiar coralline plants of which the bodies called Coccoliths and Rhabdoliths were constituent

parts.

All these organisms secrete carbonate of lime, and it was the dead skeletons of successive generations of such organisms, accumulating under the conditions described, that made the entire bulk of our American chalk, the region of which extends from Iowa to the Rocky Mountains, and from Texas to the Arctic Sea. It was about the time that the subsidence reached its maximum that the chalk was deposited near Auburn, in Sac county."\*

## FOREST AND SHADE TREES.

Wood, for many years, was the principal and preferred fuel of the people of this state. Forest trees can be cultivated upon all varieties of the soil of the state as successfully as a crop of corn. The principal kinds of native trees that have been used as fuel, before the general use of coal, are the following, their order indicating their estimated relative abundance: Oaks, several varieties, including white, laurel, burr and black; cottonwood, elm, white maple, linden, hickory, sugar maple and black walnut. Other native trees, such as the hackberry, ash, honey-locust, slippery elm and butternut, have also been used, but their number has been more limited.

Experience and observation indicate that the following named forest trees give good results under cultivation, their order indicating their rapidity
\*Samuel Calvin in Geology of Iowa, Vol. 3, 213.

of growth, and their inverse order their relative value for fuel: Cottonwood, white maple, box-elder, black walnut, oak, sugar maple and hickory.

The black walnut and hickory succeed well upon the prairie by artificial propagation from the seed and with very little labor. So rapid is the growth of the cottonwood that, it is estimated, ten acres planted, at the end of five years, will supply a large family continually with all the necessary fuel. For rapidity of growth the white maple ranks next to the cottonwood and makes better fuel. It succeeds well upon all varieties of soil and is readily propagated from the seed. These facts indicate that in a prairie region the farmer may not only determine "the location of his fields and woodlands, but also the kinds of crop, whether of grain or trees, that shall be grown upon each."

# WATER.

It would be difficult to find a region more bountifully watered than the state of Iowa, and so general is the drainage through its numerous rivers, creeks and rivulets, that almost its entire surface is available for agricultural purposes. Valuable springs are frequent in the valleys, and even upon the highest prairies no difficulty has been experienced in obtaining excellent water a few feet beneath the surface.

All the water of Iowa is hard, holding in solution more or less carbonate of lime. It is nevertheless pure and wholesome, giving vigor to youth, strength to manhood and solace to age. In the moonlight fountains and the sunny rills, in the warbling brook and the giant river, the water of Iowa is clear, beautiful and invigorating. "The beneficent Creator gave to Iowa a wealth of resources of more priceless value than mountains of precious metals, in her ever recurring showers, her numerous springs and perennial streams."

"Merry laughing, sparkling water,
O'er the prairies flowing free;
Making all so bright and happy,
In the vale and on the lea,
How I love thee!"

Waters of medicinal value are also found here. There are streams that flow from fountains that give strength to the weak and restore health to the sick.

The mineral springs at Colfax have become so famous that that health resort has been designated the "Saratoga of the West." This fountain flows from a boring sunk for coal four hundred and fifteen feet in depth. Other medicinal wells are found at Des Moines, Cherokee, Lineville and other places. On the western shore of Wall Lake, Sac county, there is a natural spring known as the Lake View Mineral Spring, that has a considerable reputation for the cure of many of the ills to which our mortal nature is subject.

# CLIMATE. \*

Of the two essential elements of agricultural prosperity, a fertile soil and a favorable climate, the latter may be said to be the more important, for nothing can fully compensate for the lack of rainfall during the growing season. Only a small portion of any arid region can be made productive by irrigation.

The claim may be made that in respect to these two essentials, soil and climate, Iowa stands foremost among the agricultural states of the Union. There is no question as to the exceeding richness and depth of the soil, for it has maintained a large measure of its original fertility under a system of continuous cropping that would have reduced to barrenness the thinner soils of less favored sections. And its climate has served as a fit complement of its soil in the production of those vast crops that have figured so con-

\*Gleaned from Climatology, by John R. Sage, Director of the Iowa Weather and Crop Service.

spicuously in the agricultural statistics of the country.

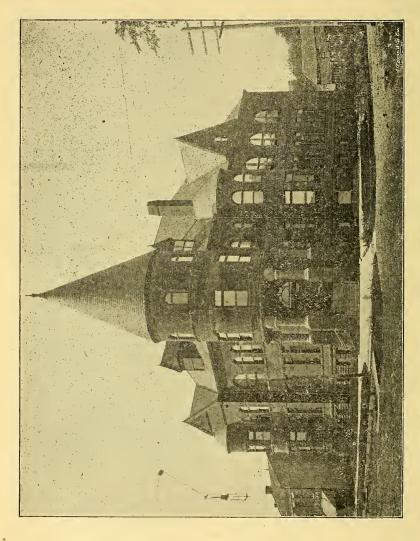
Situated midway between the oceans the climate of Iowa is strictly continental. Its altitude ranges from four hundred and forty-four feet above the sea level at the confluence of the Des Moines and Mississippi, to one thousand six hundred and fifty feet at a point near Spirit Lake; and as there are no mountain ranges nor extensive forests the physical conditions give to the state a climate very similar throughout.

The moisture precipitated over Iowa comes almost entirely, either directly or indirectly, from the Gulf of Mexico. And as the gulf is permanent there is no danger that this region will ever become arid or unproductive.

Blodget's rain chart for the continent shows the average annual rainfall in the eastern and southeastern counties is forty-two inches, through the central belt from southwest to northeast it is thirty, and in the extreme northwestern section twenty-five inches.

The annual precipitation in Iowa is equal to that of any of the Atlantic or Middle states in the same latitude, with the exception of points along the sea-coast or in mountainous districts.

Dr. Gustavus Hinrichs, who originated the Iowa Weather Service and served over twelve years as its director, said in his last annual report: "While Iowa has a continental climate in regard to temperature, it enjoys the fertilizing advantages of a high and well distributed rainfall usually restricted to the coast only. In fact, there is no region in the interior of any continent that has a climate like that of Iowa, in which the extremes of temperature are coupled with an abundance of fer-, tilizing moisture. Right close to the south the immense boiler of the gulf is furnishing vapor; the heated continental expanse north causes the southerly current prevailing throughout the



ry the moisture of the gulf all over 9,480 pounds for every inhabitant of the world."

in the amount of snow, than in the eastern states on the same parallels. The relatively dry atmosphere during the winter months has a favorable effect upon the health and comfort of the inhabitants of this region, enabling them to easily withstand the low temperature of that season of the vear.

## AGRICULTURAL RESOURCES.

The following exhibit will serve to show the marvelous development of the agricultural resources and the industrial condition of the state of Iowa in the years 1850, 1880 and 1895, respectively:

	1850	1880	1895
Wheat, bus1	,530,381	31,151,205	14,612,054*
Oats "1	,524,345	50,610,591	201,600,000
Corn "8	,656,799	275,024,247	285,000,000
Potatoes	282,368	10,084,935	16,700,000*
Butter, lbs2	,171,188	55,481,958	45,245,627
Cheese "	209,840	1,075,988	449,416
Horses	38,536	792,322	1,383,302
Cows	45,704	854,857	1,087,279
Hogs	323,247	6,034,336	5,044,577
Sheep	149,960	455,359	492,875
Other cattle	91,000	1,755,343	2,110,305
*1896.			

In 1897, the aggregate value of farm products amounted to \$130,934,-328.00.

In the year 1891, the estimated value of all the agricultural products of railroads was \$13,936,680.17. Iowa, including the crops and stock of all kinds, was \$464,219,308.

The Iowa corn crop alone brings annually more gold and silver than the states of the Union, combined.

summer. These southerly winds car- yield of corn equaled a production of the Mississippi valley, where it de- the state; of wheat 1156 pounds; of scends normally in great abundance, oats 997 pounds and of all cereals making it the best watered valley in 11,809 pounds. There was also raised that year 371 pounds of potatoes for In Iowa the summers are decidedly each inhabitant. The production of warmer and the winters slightly cold- these elements of food that year in er, though marked by a diminution Iowa reached the enormous aggregate of 12,180 pounds, or six tons and one hundred and eighty pounds for every man, woman and child within her The state thus produced borders. nearly four times as much of these elements of food, proportionately, as did the country at large. It is believed this aggregate of production in proportion to population, is without a parallel anywhere or at any time.

The live stock interests of the state have also grown to immense proportions. In 1870, Iowa ranked seventh in the number of horses, but ten years later only Illinois and Texas had more.

In 1870, there were seven states that had more milch cows, but ten vears later Iowa ranked next to New York and Illinois.

In 1880, Iowa ranked fourth in the production of butter, New York, Pennsylvania and Ohio producing a larger quantity; but in the manufacture of creamery butter, Iowa stood first, making nearly one-third of the creamery product in the United States. In 1897, there were in the state 773 creameries, 118 skim stations and 76 cheese factories. The value of the butter products shipped by the

In 1870, six states raised more swine, but ten years later Iowa had nearly a million head more than any other state and more than one-eighth of the products of all the mines in all of the whole number throughout the country. Iowa can beat the world in rais-In the great staples, that together ing cheap pork, because there are make up the food of the country, here the finest clover pastures and as Iowa ranks out of all proportion to cheap corn as can be produced anyher population. In the year 1879, the where. The Iowa farmer, by jttdicious management and careful hand- want to stay right here in Iowa." ling, can double his capital invested in hogs every few years, if not in a single year, raising his own grain and milk for the pigs, and fattening them for the fall or early winter market.

During all the years of the general financial depression—from 1892 to 1896 —when the price of nearly every commodity went constantly downward, the value of Iowa farms steadily mounted higher. Her people rank among the most intelligent, thrifty and public-spirited of any state. They do not live in Iowa as they do in some places, "merely because they have to do so." Here they build fine houses and live to enjoy life.

The late Stephen A. Douglass, who, as a member of the Committee on Territories, in 1846, presented to congress the bill for the admission of Iowa into the Union, said: "Vermont is a good place to be born in, if one should emigrate quite young, but Iowa is a good place to be born in and a good place to stay in."

This observation reminds one of an interesting incident that occurred at a certain revival meeting held in the early days:

"All persons in the congregation," said the evangelist, "who want to go rose, but one godless granger sitting uresome hunter. These were suppleon the back seat.

from the pulpit and, approaching the lowed through or forded. to plunge into perdition; where do of well constructed bridges. you want to go?" "I don't want to

It is quite probable that he was the only one in the house who told the whole truth.

# COMMERCIAL FACILITIES—RAILROADS.

The position of Iowa enables her to command the advantages of 20,000 miles of inland water navigation, the cheapest of all forms of transportation. Her great rivers are permanent fixtures, and as the years roll on and population and wealth increase, public interest will demand that these great channels of interior communication and transportation be maintained in the most perfect condition, and their benefit will increase with These each succeeding generation. divinely formed channels of trade and transportation were the first to be utilized and will be indispensable to Iowa. They will yet bear a large proportion of the products of her farms, orchards, dairies, mines and manufactories to distant markets and bring in return immense supplies of commodities and material that her industries and people will demand.

The first settlers of Iowa came from the east by teams. When they crossed the Mississippi the only means of interior transportation in the aid of trade were the shoulders of the to Heaven will please rise to their dusky squaw, the Indian pony, canoe feet." Every person in the house or an occasional pack-horse of a ventmented by the ox teams and horses "Now," continued the evangelist, brought by the settlers, which con-"if there is any person in the congre-stituted the only means of interior gation who desires to go to the 'bad transportation, until the closing years place' let him stand up," looking of the sixties. There were then no hard at the granger, who still kept wagon roads or bridges, and the his seat. The evangelist descended sloughs and streams had to be walcase-hardened sinner who refused to changed the scene today! Now there testify in the way proposed, said, are in this state 110,000 miles of well "My perishing friend, you seem to constructed highways provided with have no desire to reach Heaven, nor innumerable culverts and thousands

In 1847 a meeting was held at Dugo any where," replied the man, "I buque for the purpose of securing a and the other to span the state from point on the Missouri, at or near Council Bluffs. The first of these roads was never built. The first railroad company organized within the state was the one formed at this time to build the latter road from Davenport to Council Bluffs. The congress of the United States was asked to aid in its construction, and in 1850 that body adopted the policy of making land grants to encourage the building of western railroads.

The year 1856 marked a new era in the history of Iowa. In 1854, the Chicago and Rock Island had been completed to the east bank of the Mississippi, opposite Davenport, and in the same year the corner-stone of the railroad bridge that was to be the first that spanned the "Father of Waters," was laid with appropriate ceremonies at this point. January 1, 1856, this railroad, the first in Iowa, was completed to Iowa City. In the meantime, two other railroads had reached the east bank of the Mississippi—the Burlington and Quincy opposite Burlington, and the Illinois Central opposite Dubuque.

On May 15th, that year, (1856) congress passed an act, approved by President Pierce, that made the first grant of land in aid of railroad building in the state of Iowa. This act provided for the grant of the alternate, or odd numbered sections, for a distance of six miles on each side of four main lines of railway across the state.

nate sections, remaining unsold, in a mer the Illinois Central reached

railroad connection with Chicago. strip five miles in width, on each side In the winter of 1848, just fifty years of that river. This grant proved a ago, a convention was held at Iowa fruitful source of legislation and cor-City that projected two railroads, one ruption, the river, unsatisfactory for to extend from Dubuque to Keokuk navigation, and the grant was finally utilized for the construction of a rail-Davenport, via Iowa City, to some road up the valley of the river to Des Moines.

> Under these two grants, and others that followed soon after, the railroads in Iowa received land as follows:

> Burlington & Missouri river (C. B. & Q.) 287,095 Miss. & Missouri river (C. R. I. & P.)..... 550,194 Ia. Cent. Air Line (Chicago & NW.) ..... 775,454 McGregor & Missouri (C. M. & St. Paul) 372,293 Sioux City & St. Paul...... 407,879 Des Moines River Improvement Co.....1,105,968

> > Total......4,674,745

This was a princely donation, but the settlers asked for it and expected the benefits derived therefrom would be commensurate. The few settlers in the interior counties were laboring in privation, difficulty and poverty, and were unable to convey their surplus to market. Lands were then taken slowly at \$1.25 per acre and there was not sufficient wealth in the state to provide the transportation facilities that were needed.

Although this land was granted and the surveys made, the railroads were not immediately constructed. The financial crisis of 1857 stopped all railroad enterprise, and before the country had sufficiently recovered to justify new and great undertakings, the civil war began, and railroad construction was suspended until after the collapse of the rebellion.

At the close of the war, there followed a period of great activity in railroad building in Iowa. The Chicago and Northwestern, first to cross On August 8, 1846, congress had the state, reached Council Bluffs in granted to the Territory of Iowa, for 1867. The Chicago, Rock Island and the purpose of improving the naviga- Pacific, and the Chicago, Burlington tion of the Des Moines river from its and Quincy reached that city early in mouth to the Raccoon fork, the alter- 1869; and during the following sumSioux City. Other roads soon fol- 8,600 miles of railway within the of any other state. There are now \$17,807,915.89.

lowed, and today the state is crossed boundaries of the state that, together by five great railways and covered with the rolling stock, depots and with a network of steel tracks, that terminals, represent a cost of \$25,000 extend into all the 99 counties and per mile and a total cost of \$212,500, bring to her people commercial ad- 000. They give employment to 30,192 vantages unsurpassed by those men, whose annual salaries amount to



# TX.

# THE STATE INSTITUTIONS AND BUILDINGS OF IOWA.

"Education is the cheap defense of nations."—GARFIELD.

IOWA'S CAPITOL, DES MOINES.

"Peerless Iowa, 'tis of thee, Fair state of industry,
Of thee I sing."—H. P. BRANCH.



HEcut appears on page Johnson county.

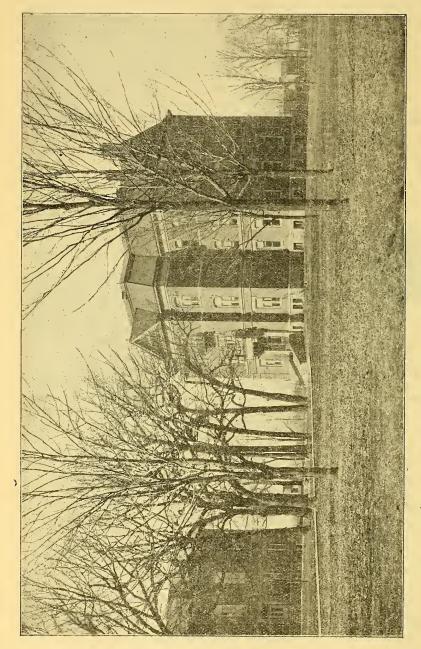
to every citizen of the state.

building wa passed by the 12th Gen- Wilson, Hon. Samuel Merrill and eral Assembly and approved April 6, Hon. John A. Kasson; and a poem 1868. The first Board of Commission- was read by Hon. John B. Grinnell. ers, appointed in 1870, to determine Dudley, of Wapello; Col. J. N. Dewey, near Cleveland, Ohio, Chicago, Ill. persons became members of it, name- Mountain, Missouri. ly: John G. Foote, of Des Moines The statuary, beginning north of

present capitol county; M. L. Fisher, of Clayton; R. building, of which a S. Finkbine and Peter A. Dey, of

14, is a fine speci- Its construction was begun in June, men of modern ar- 1871, the first stone being laid August chitecture. It is an 1st and the corner-stone, November object of beauty and a source of pride 23d following. On this last occasion the following distinguished citizens The first act for the erection of this delivered addresses: Hon. James F.

The corner-stone, 7x3x3 feet, was its plan and superintend its construction granite obtained in Buchantion, consisted of Governor Samuel an county, and presented for that Merrill, chairman ex-officio; Gen. G. purpose by David Armstrong, of that M. Dodge, Hon. James F. Wilson, of county. The stone for the founda-Fairfield, and six other members tion was obtained from the Madison chosen by the senate and house of county quarries near Winterset, and representatives in joint convention, for the basement from the old Capitol viz: James Dawson, of Washington quarry in Johnson county, near Iowa county; Simon G. Stein, of Muscatine; City. The outside steps and platform James O. Crosby, of Clayton; Charles are of the "Forest City" stone, from and of Des Moines, and William L. Joy, of rails of granite from Sauk Rapids, Woodbury county. A. R. Fulton was Minnesota. All the columns, piers chosen secretary of this Board. The and pilasters in the corriders of the plans approved were prepared by first story, are from Lemont, Illinois; Messrs. Cochrane and Piquenard, of most of those in the basement, from In 1872, when this Anamosa, and the red granite col-Board was reorganized, the following umns of the second story, from Iron



It is constructed of brick, 114 by 74 feet, and contains four large lecture rooms, four laboratories, a large museum and professors' rooms. THE NATURAL SCIENCE BUILDING OF THE STATE UNIVERSIT .

dustry, Peace, Commerce, Agriculture, Victory, Truth and Progress.

The four pictures on the ceiling of the supreme court room, are of the type of Greek mythology, and represent Justice, Columbia, Justice and Peace ruling over the land and bringing prosperity, culture and happiness, and Ceres, the goddess of agriculture.

Its general dimensions are: length north and south, 363 feet; breadth, 246 feet, and height to top of finial, The height of the first 275 feet. story is 23 feet; of the second, 22 feet, and of the third, 20 feet. The diameter of the rotunda is 66 feet and of the dome, 80 feet. The senate chamber is 58x91 feet, the house of representatives 74x91 feet and the library 52x108 feet. It is lighted by an electric light that requires an engine of eighty-horse power.

The last stone was laid June 18, 1881, and the interior was completed two years later. The work was all done by the day, the structure was paid for as completed and the cost was nearly \$3,000,000.

"From spire and from dome, From shop, school house and home, Ring a glad chime; Sing of her constant gain, Her wealth of brawn and brain, Noble, sublime.

STATE UNIVERSITY OF IOWA, IOWA CITY. (See group of buildings, p. 60.)

"Blessings on Science and her handmaid Steam!

They make Utopia only half a dream; And show the fervent of capacious souls,

Who watch the ball of Progress as it rolls."-MACKAY.

In the year 1840, the congress of the United States passed an act setting apart two townships for the use and support of a University within the Territory of Iowa, whenever it should become a state. This gift was accepted, as set forth in the constitu-

the library door, represent History, tion of the state, and in 1847, the Science, Law, Fame, Literature, In- University of Iowa was organized by an act of the legislature of Iowa, approved February 25, 1847. The General Assembly at this session granted the capitol building at Iowa City, together with the ten acres of land on which it was situated, for the University. It also donated at the same time, two townships or seventy-two sections of land, to constitute a permanent fund for the endowment of the institution and such branches as might be later established.

The organization was completed by the appointment of a Board of fifteen trustees, who held their first session July 15, 1847. In January, 1849, two branches of the University were established—one at Fairfield and the other at Dubuque. The latter gained only a nominal existence. At Fairfield, the board of directors organized and erected a building at a cost of \$2,500. This was nearly destroyed by a hurricane the following year, but was rebuilt by the citizens of Fair-This branch never received field. any aid from the state, and January 24, 1853, its relation to the state was terminated. In February, 1854, the Medical College located at Keokuk, was recognized and established as the medical department of the University.

Very little, however, was accomplished until 1855, when the institution at Iowa City was first opened for the reception of students.

In April, 1858, the University was suspended in all its departments, in order that the productive fund might accumulate so as to enable the institution to be established upon a more liberal basis. The University was subsequently reorganized, and under the new organization reopened on September 19, 1860, and this may fairly be regarded as the date of the beginning of the existing institution.

The control of the University is in-

trusted to a Board of Regents, consisting of the Governor of the state and the Superintendent of Public Instruction, ex-officio, and one member erected in 1868, occupies a delightful from each congressional district, who and healthful location upon high, rollare elected by the General Assembly ingland just west of Ames, Story to serve six years.

lowing six departments: Collegiate, Law, Medical, Homeopathic Medical, Dental and Pharmacy.

The Collegiate Department embraces four general courses of study one classical, two philosophical and one general scientific; and two technical courses—civil engineering and electrical engineering.

The growth of the University has been very encouraging. The last catalogue issued (1898) shows an enrollment of 1313 students in the various departments. With the progress of years, new buildings have been erected until there are now twelve fine, large buildings, costing \$424,000, supplied with apparatus costing \$150,000, all available for the various uses of the University.

The central building in the group that appears on page 60, is the former state capitol. It is built of stone, 120x60 feet, and is two stories in height. At the right of it are the Medical and West buildings, and on Cuts of the left the Dental building. Close Hall, the Natural Science building, the Chemical Laboratory and the Medical Hospital may also be seen in this volume.

Prof. A. N. Currier is acting-president of this institution; President Charles A. Schaeffer having died September 23, 1898.

THE IOWA STATE COLLEGE OF AGRI-CULTURE AND MECHANIC ARTS, AMES, IOWA.

WM. BEARDSHEAR, LL. D., PRESIDENT. "The farmer's trade is one of worth; He's partner with the sky and earth; He's partner with the sun and rain; And no man loses for his gain:

And men may rise, and men may fall; The farmer he must feed them all.

The Iowa Agricultural College, county, thirty-seven miles north of The University comprises the fol- Des Moines. The college domain includes 860 acres, of which about 120 acres in the southwest part, have been set apart for the college buildings and grounds. Fifteen commodious buildings, heated mainly by steam and lighted by electricity, have been erected by the state at a cost of \$500,000, for the exclusive use of the various departments of the college. These buildings are clustered around an attractive and beautiful campus, that affords delightful scenery and a most healthful environment.

> The entire equipment of this institution, in buildings, lands and endowment provided by the state and nation, represent an investment of \$1,-250,000. It is the pride of those in authority, to equip each department with the tools, apparatus and facilities that will most wisely and thoroughly furnish a suitable outfit for the efficient work of the students and faculty. Tuition is free to students of Iowa; those outside the state are charged \$30 a year, though this is usually remitted to worthy students by the faculty or trustees. The college library contains 11,500 volumes, catalogued by the Dewey system. The Museum of Natural History is comprehensive, and the cabinet of Mineral Specimens furnishes material from many parts of the globe, for the study of geology.

> The curriculum provides for a short course in Agriculture and Dairying; a three years' course in Veterinary Science, and four-year courses in Agriculture, Science, Mechanical, Civil, Electrical and Mining Engineering; and a Special course for ladies. For the study of Horticulture the fields,

gardens, green-house and grounds afford exceptional advantages. national government gives the college annually about \$35,000, for original investigation and experimentation in agriculture and the sciences related to the industries. This enables those in authority to make the fields and the barns veritable laboratories of extensive and most practical investigation and observation. After this year (1898) the college commencement will be held in June instead of November, and the college year will open the last of July instead of February.

The history of this institution begins with the year 1858, when the legislature passed an act appropriating \$10,000 for the purchase of a farm on which to locate an Agricultural College. In 1859, a tract of 648 acres in Story county was purchased, and that county made a donation of \$10,000 towards it, that was supplemented by \$7,000 contributed by citizens of Story and Boone counties.

to the several states in the Union, for follows that this should receive the agricultural colleges, 30,000 acres of highest degree of attention. Whatland, for each senator and representa- ever is necessary for man to have done tive in congress. Every state accept- is honorable for man to do, and the ing this grant was required to erect grade of honor ensuing is dependent the necessary college buildings with- upon the talent and fidelity exhibited in five years from the acceptance of in performing it. All students, withthe grant, and without using any of out regard to pecuniary circumstances, the proceeds of the lands for that pur- are therefore required, at this instipose. The state of Iowa, at the spetution, to perform manual labor as an cial session held in September, 1862, essential part of the college education, accepted this grant and received 240,- discipline and training. 000 acres. These lands were selected, "He that by the plough would thrive from those that had not been previ- Himself must either hold or drive." ously homesteaded or sold in the various counties of the state, and they connection were designated "Agricultural Col- was established in accordance with an lege" land. The income from these act of congress, approved March 2, lands is intended to meet the annual 1887, for the purpose of aiding "in acexpenditures of this institution, al- quiring and diffusing among the peothough a part was used for the pur- ple of the United States useful and chase of additional land as a suitable practical information on subjects consite for the college buildings and nected with agriculture, and to progrounds.

In 1890, a bill for the more com-The plete endowment and support of these colleges, was approved by President Harrison. It appropriated \$15.-000 for the year ending June 30th, that year, and provided for an annual increase of the amount of each appropriation thereafter for ten years, by an additional sum of \$1,000 over the preceding year.

The object of this institution is "to advance and conserve the interests of agriculture and the mechanic arts," with the practice of agriculture, and to seek to make use of this intelligence in developing the agricultural and industrial resources of the state. Its aim is to make the student familiar with the things immediately around him, the powers of nature he employs and the material, through which under the blessings of Providence, he lives and moves and has his being; and since Agriculture, "the great mother science and industry of the ages," more than any other of the In July, 1862, congress appropriated industrial arts is important to man, it

The Iowa Experiment Station, in with this institution. mote scientific investigation and exand applications of agricultural sci- appropriation towards its support. In ricultural investigations and experi- years. ing for them.

Views of the Main building, Morrill ment of that institution. Hall and the Farm Barns may be seen on pages 64, 68 and 72.

THE IOWA STATE NORMAL SCHOOL, CEDAR FALLS,

HOMER H. SEERLEY, A. M., PRESIDENT.

"Study to show thyself approved; \* \* \* apt to teach."—PAUL.

legislature of Iowa decided to found a there was any local supply.

Hon. T. S. Parvin, of Cedar Rapteacher, in the person of D. Franklin Wells, and had introduced the spirit and methods of Normal work among the teachers. In the year 1849, by an act of the legislature, the state was divided into three Normal districts, and a Normal school located in each Henry county and one at Oskaloosa in were also wisely chosen. Mahaska county. Of the three schools

periments respecting the principles in 1855, ceasing to make the annual ence." It is subject to the regula- the same year a Normal department tions of the United States department was added to the State University, of agriculture. The results of all ag- that was maintained for seventeen Prof. D. F. Wells became ments, including those relating to principal of this Normal Department live stock, are published in bulletins of the State University and by his inthat are issued quarterly, and sent struction to the advanced students free to all farmers of the state apply- in the "science and art of teaching," made it the most prominent departthis Normal Department of the University was abolished and in its place there was established a chair of Didactics—the first professorship of teaching, established, it is said, in any college or university in the United States.

The founding of a Normal school The public belief in the special edu- was now advocated by state superincation of teachers as a necessity, ex-tendents, by the state teachers' associisted before the year 1876, when the ation and by leading teachers and citizens, so that the demand was prom-Normal school and maintain it there-inent in public opinion. In the year after as one of the necessary state in- 1876, Hon. H. C. Hemenway, the repstitutions. The Normal school grad- resentative in the General Assembly, uate from New York, Pennsylvania from Black Hawk county, supported and other states, had already 'proved energetically the measure and secured the practical advantage of such edu- the passage of a bill, with a majority cation and had created a public de- of one vote, that gave to the present mand for professional teachers, before institution at Cedar Falls, a legal existence.

The Board of Regents, appointed ids, at the very beginning of the by Governor Kirkwood, did a wise act school system in Muscatine, had sent in the selection of Prof. J. C. Gilto New York to obtain a trained christ as the first president of the faculty, as he was the best informed man in Iowa at that time, to undertake the great task, and he probably accomplished a work, during his ten years of public service, at this institution that is rarely equaled for permanency and efficiency. The other members of the as follows: One at Andrew in Jack- first faculty, M. W. Bartlett, D. S. son county, one at Mt. Pleasant in Wright and Miss Frances L. Webster,

This institution, established for the thus located, only one—that at An-special training of teachers for the drew—was opened; and it was main-common schools of the state, was tained only for a few years, the state opened for the reception of students,

September 6, 1876. It has now an equipment consisting of six buildings Prof. M. W. Bartlett and Prof. D. S. and forty acres of ground, estimated Wright, continue in charge of their at \$167,500, that are used exclusively respective departments; Miss Anna E. for the work of the school and resi- McGovern since 1880, and Prof. Seerdences of its officers. North Hall, previously one of the soldiers' orphans' homes, was transferred March 5, 1876, as follows: Hall, in which are the chapel and lat- die. oratories of physics and chemistry, was erected in 1882, at a cost of \$30,-Central Hall, containing the president's offices, the library and the museum, was erected in 1895, at a cost of \$35,000. The steam plant that heats the entire institution was erected in 1896. The library, which is free to all students, contains more than 8,000 volumes.

The students are charged an expense fee of \$5.00, a term of twelve weeks. To secure entrance as a teacher-student, it is necessary for each applicant to sign the following declaration. "I hereby declare that, in becoming a student of the Iowa State Normal School, it is my intention, in good faith to follow the business of teaching in the state of Iowa."

The moral and religious influences of this institution are very excellent. There is, perhaps, no school in the state that has more religious work in progress or that is more successful in influencing students to undertake and maintain a life of high moral and religious culture.

The use of tobacco, being a hindrance to intellectual progress and unbecoming in a teacher, is not allowed in any form at this institution. Games of chance and other amusements that hinder study, are also prohibited, and indulgence in the use of intoxicating liquors is regarded as a very serious offense.

Two members of the first faculty, lev since 1886.

New departments have been added Music in 1878; Special and became the original home of the Training in 1884, discontinued two The superintendent's home years later and reorganized in 1891; was transferred at the same time and Latin in 1897 and the Military in 1892. both buildings were reconstructed to The latter is in charge of a retired U. adapt them to their new uses. South S. army officer, Major W. A. Dinwid-

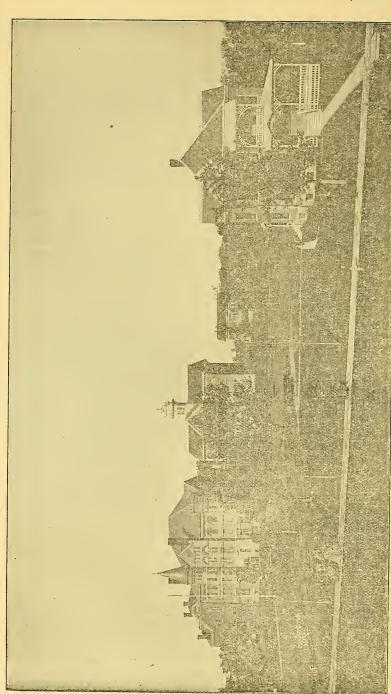
> In the year 1878, the first graduating class numbered four persons, and in 1898, there were 186 graduates, . making the whole number in twentytwo years, 1325. The number of students in attendance last year was 1318. THE IOWA COLLEGE FOR THE BLIND,

VINTON. THOMAS F. MCCUNE, A. M., PRIN.

"I will bring the blind, By a way they knew not; I will lead them in paths They have not known."—Isaiah.

The Iowa College for the Blind, established at Iowa City in 1852, and opened for students the year following, was transferred to its present location at Vinton, Benton county, in 1862. The college, as its name indicates, is a school, not a home, and the annual session begins on the first Wednesday of September and ends on the second Wednesday of June, following. During the summer vacation the students are required to return to their homes, and all officers and employes are then discharged, except those necessary for the care, cleaning and repair of the buildings.

The biennial report of 1897 shows that 186 pupils were in attendance that year, and 208 the year previous. During the forty-five years of the existence of this institution, 1007 students have been enrolled, of whom fifteen per cent make their own living and forty per cent are educated and



more than ordinary power; one is rapidly rising into prominence as a writer of stories for children, and another, as author and lawyer, has attained a marked standing in one of the largest cities of the land.

The main building, 108x70 feet, is located near the center of the grounds that comprise forty acres. These are beautifully arranged and ornamented with all kinds of trees and shrubs. The estimated value of the buildings, grounds, machinery, etc., represented by this institution, is \$313,650.

Its design is to furnish to the blind children of the state equal educational advantages with children who en-The branches joy the boon of sight. taught are raised print, point system, arithmetic, spelling, geography, history, grammar, natural philosophy, civil government, political economy, geometry, English and American literature.

The department of music is supplied with twenty-three pianos, one pipe organ, three cabinet organs and a sufficient number of violins, guitars, bass viols and brass instruments. Every student capable of receiving it is given a complete course in this branch.

In the industrial department the girls are required to learn knitting, of either sex who desire, may learn carpet weaving and broom making.

the interest of which, \$10,000, was to to a schedule of wages. be paid semi-annually to the trustees ville, Ky., to be expended in publish- amounting to \$18,000.

respectable members of society. Of ingembossed books and manufacturing the whole enrollment, ten per cent apparatus for the blind. These books have completed the literary course and apparatus are supplied to the and received their diplomas. Four thirty-seven institutions for the blind have become successful ministers of in the United States, in proportion to the gospel; one is an evangelist of the number of pupils in attendance at each.

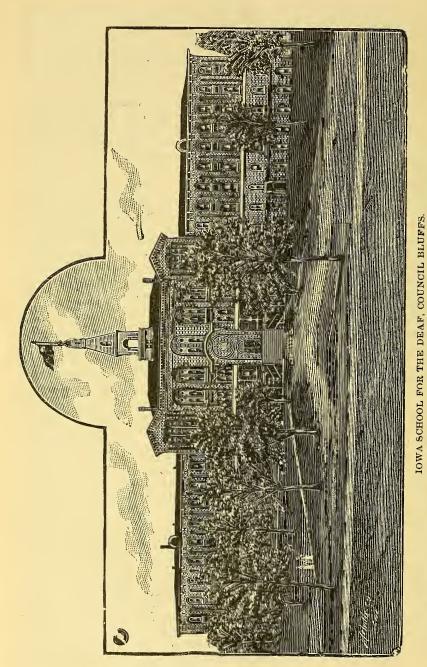
> No work presents more complex problems than that of educating the blind, yet no work has made greater progress than this during the last quarter of a century.

> INDUSTRIAL HOME FOR THE BLIND, KNOXVILLE.

The Industrial Home for the Blind was established in 1890, by the Twenty-third General Assembly, which appropriated \$40,000 for the purchase of grounds and the erection of buildings. Under the provisions of this act, the governor appointed a board of commissioners to select a location and suthe construction of the perintend buildings. They selected Knoxville, Marion county, as the site for the Home, and by January 1, 1892, had it ready for the admission of inmates, with accommedations for two hundred.

The object of this institution is the instruction of the adult blind of the state in some suitable trade or vocation, and to furnish a working home for the blind, who have learned a trade or vocation and desire to be employed therein. It is open to every blind person who has a legal residence in the state and is physically and mentally able to perform such labor as may be required in the trade or vocacrocheting, fancy work, hand and ma-tion carried on therein. Broom makchine sewing; the boys, netting, mating is the principal industry. Hamtress making and cane seating. Those mocks and nets are also made. All assignments of work are made on the basis of adaptation. Each works at Several years ago, congress appro- that for which he is specially fitted priated \$250,000 as a permanent fund, and is paid what he earns, according

The legislature makes biennial apof the American Printing House for propriations for its support, those last the Blind, a corporate body, in Louis- made for the years 1898 and 1899,



Center of building is five stories high, wings four stories each. Eutire length is 320 feet, width 60 feet. Established in 1855.

1,071 hammocks and 330 nets.

ent.

IOWA SCHOOL FOR THE DEAF, COUNCIL BLUFFS.

HON. HENRY W. ROTHERT, SUPT. G. L. WYCKOFF, PRINCIPAL.

"Education is a capital to a poor man, and an interest to a rich man." -Horace Mann.

The Iowa School for the Deaf is located in Pottawattamie county, three miles east of the city of Council Bluffs. Arrangements were made for the establishment of this institution by the General Assembly of Iowa, in January, 1855. It was located first at Iowa City, where Mr. W. E. Ijams, a gentleman of liberal education and considerable experience in the instruction of the deaf, had established a private school for their benefit. December, 1870, it was transferred to Council Bluffs, where permanent and commodious buildings have been provided for its use. It was first called a "State Institution for the Deaf and Dumb," but this name was changed to its present form in 1892.

The main building is one of the largest structures in the state, being at Glenwood, Mills county.

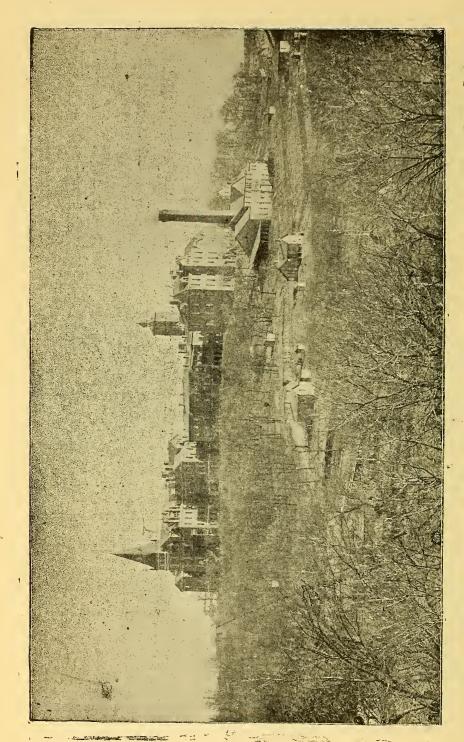
During the first five years of its ex-Schools was erected in 1889, to meet istence, or the period ending June 30, the growing and urgent requirements 1897, ninety-one inmates had been re- of the Industrial Department of this ceived and they had made 26,966 doz- institution. It contains a large steam ens of brooms, 8,411½ dozens of whisks, cylinder press, on which a weekly paper. The Deaf Hawkeve, is printed. The value of the property represent- The south wing of this building was ed by this institution is estimated at erected in 1875, and at that time, it \$30,000, and it is in charge of three was considered ample to provide for trustees who are elected by the legist the wants of this school. The Chapel lature for a term of six years. Cam. and Dining Hall are in the same Culbertson is the present superintend-building, 70x85 feet, two stories in height. All of these buildings are of brick, and together with grounds, apparatus, etc., represent an investment by the state of \$400,000.

This institution is free to all from the age of nine to twenty-five, who are too deaf to be educated in the common schools, but who are sound in mind, free from immoral habits and free from contagious or offensive diseases. A competent corps of instructors of long and successful experience is employed in every department. The trades taught in this institution are printing, shoe-making, carpentering, dress-making, farming and gardening, drawing and painting; light housework, plain sewing and knitting are also taught. The session of the school begins the 1st day of October and continues until the last day in June of each year.

IOWA INSTITUTION FOR FEEBLE MINDED CHILDREN.

"The secret of life—it is giving; To minister and to serve. -LUCY LARCOM.

This worthy institution is located 350 feet long, 60 feet wide and five homes for orphan children had been stories high in the central part. The founded during the war of 1861-1865, wings of this building are used chiefly and maintained by the state until for sleeping apartments, while in the 1876, when the number of dependent central part provision is made for children having greatly diminished, study, the care of the sick and the re- it was decided to unite them in the ception of friends. The school house, present institution at Davenport. two stories in height, contains twenty This closed the homes at Cedar Falls large, well ventilated recitation rooms, and Glenwood, and the former be-The center building of the Industrial came the State Normal School and



IOWA INSTITUTION FOR FEEBLE MINDED CHILDREN, GLENWOOD. (Before the Fire.) Established 1876. F. M. Powell, Supt.

admitted, September, 1876. For a of founding a home for the orphan time there was an unwillingness on children of Iowa soldiers, to be supchildren to turn them over to its care, assisted by the comrades of the fallen largely outgrown. The present build- dertaken at Farmington, Glenwood ings cost \$350,000, the furnishings and and Cedar Falls. machinery \$35,000 and together with the 300 acres of land on which they ganized December 1, 1863, as a private are located, represent an investment charitable institution, and was opened of \$405,000.

provide special methods of training as Camp Roberts. for that class of children, who are de-

are admitted between the ages of five and eighteen years.

THE IOWA SOLDIERS' ORPHANS' HOME AND HOME FOR INDIGENT CHIL-DREN, DAVENPORT.

1861, the state of Iowa was settled Homes in families are then solicited chiefly by young men of limited means, who were maintaining their families, suits. The call for volunteers was answered patriotically. Large num- thirty-five children each, a schoolbers went to the front and many, fall- house with seating capacity for 500 ing in the defense of their country children, a large, two-story hospital, and homes, left their families in des- a laundry and engine house, a manual

the latter the Institution for Feeble John L. Davies, Mrs. P. V. Newcomb Minded Children. The first child was and many others, conceived the plan the part of parents of this class of ported by the charity of Iowa people, but now that diffidence has been heroes. Similar enterprises were un-

The Davenport Home was first orfor the reception of children, July 13, The aim of this institution is to 1864, utilizing the old barracks, known

In June, 1866, it became a state inficient in mind or marked with such stitution, under the name of the Iowa peculiarities as may deprive them of Soldiers' Orphans' Home, the legislathe benefits and privileges provided ture assuming control of it and profor children with normal faculties. It yiding a special fund for its mainteaims to make the children as nearly nance and for its permanent location self-supporting as practicable and en- at that place. In 1876 it became the able them to approach as nearly as only home for soldiers' orphans, in possible the actions of normal people. Iowa, by the transfer of those at Ce-It further aims to provide a home for dar Falls and Glenwood. The sphere those who are not susceptible of men- of its usefulness was widened the same tal culture, but must rely wholly on year by opening its doors to other deothers to supply their simple wants. pendent children of the state. Two In the school department, lessons classes of children are therefore now are imparted in the simple elements received; first, soldiers' orphans, who of instruction taught in the public are maintained by the state, and secschools, as well as in the industries ond, county orphans, who are mainsuited to their capacities. Children tained by the counties sending them.

Only children healthy in body and mind are admitted, and these for no period less than one year. None are received under the age of one year, and the boys are not kept beyond fif-At the outbreak of the rebellion, in teen, nor the girls after sixteen. for them.

This institution now consists of to a great extent, by agricultural pur- eighteen well equipped cottages, accommodating from twenty-five to titute circumstances. Some of the training building and a barn with a people of Davenport, storage capacity for 100 tons of hay among them Hon. Hiram Price, Hon. and stable room for twenty-five cows

and six horses. These buildings are offenders or those who, through lack located on a beautiful plot of ground containing 57 acres, in the east suburban part of the city, and represent an investment of \$180,595. The average number in the home the last year (1897) was 487.

THE SOLDIERS' HOME, MARSHALLTOWN.

The legislature made provision for the establishment of the Iowa Soldiers' Home at Marshalltown, in 1886, and the main building was opened with proper ceremonies, November 30, 1887. Since that time enlargements and improvements have been made so that the estimated value of the buildings is \$183,200; the grounds, over 400 acres, \$25,000, and miscellaneous property. \$16,000; total value, \$224,200.

This institution is maintained for dependent, honorably discharged Union soldiers, sailors and marines, their dependent widows, wives and mothers and dependent army nurses. It is a worthy monument of the grateful patriotism of the people of the state towards its defenders, who, broken in health, or suffering from wounds received in their country's dangerous service, now need its care. Women were first received in 1893, when four The annual enrollwere enrolled. ment shows that the number of persons at this home has been as follows:

1888140	1893376
1889258	1894404
1890349	1895516
1891432	1896605
1892426	1897632

A number of cottages have been erected for the accommodation of married veterans needing the advantages of this home.

INDUSTRIAL SCHOOLS, ELDORA AND MITCHELLVILLE.

Two industrial or reformatory for the purpose of reforming youthful under proper control.

of proper home control, promise to become criminals.

The school at Eldora was opened The improve-September 1, 1868. ments consist of a main building, costing \$50,000, five family buildings costing the same amount, a hospital, shop, chapel, barn, electric and steam heating plants and other necessary improvements, on 760 acres of land that altogether represent an investment of \$201,500. About 450 boys are now cared for at this institution.

The school for girls was opened at Mitchellville in 1879, as a branch of the former. The improvements consist of a main building, two family buildings, hospital, barn, electric plant, steam heating apparatus, etc., located on 160 acres of land, all valued at \$90,125.

The children who are committed to these schools are not the hardened, irredeemable criminals, but those who are young in years-eight to sixteenand whose natures are still susceptible to the influence of kindness, moral training and proper discipline. These beneficent influences could never accomplish the desired results amid the environments of prisons and penitentiaries.

Our state has wisely taken these facts into consideration, and no less in self-defense than in charity, has established these institutions as homes for our unfortunate youth. It has enjoined upon those who have the supervision of these schools the duty of having the boys and girls instructed in morality, such branches of useful knowledge as are adapted to their age and capacity and in some regular course of labor. The results of the schools, one for boys, at Eldora, Har- work done by these schools prove bedin county, and one for girls, at Mitch- yond a doubt the possibility to reellville, Polk county, have been found- claim wayward youth and make good ed by this state, and are maintained citizens of them when they are put

HOSPITALS FOR THE INSANE, MOUNT PLEASANT, INDEPENDENCE, CLA-RINDA AND CHEROKEE.

Liberal provision has been made by the people of this state for the care of the insane, by the erection of four large and commodious hospitals or asylums.

The one at Mount Pleasant, Henry county, was established January 24, 1855, by an appropriation of \$44,425 for 160 acres of land and buildings. It was formally opened March 6, 1861. The development of this institution is expressed in the following estimates of value: Buildings \$800,000; grounds, including farm, \$58,000; miscellaneous property \$100,000; total value \$958,000.

The second, located at Independence, Buchanan county, was opened May 1, 1873. The investment here is as follows: Real estate \$26,400; buildings \$1,015,950, making with other improvements, \$1,112,020.

The third, located at Clarinda, Page county, was opened December 15, 1888. This institution has 513 acres of land and accommodations for 1000 patients. The inventory shows value of land \$38,475 and of buildings \$821,000, making with other permanent improvements and fixtures, \$923,356.

The fourth, located at Cherokee, Cherokee county, in 1894, is not yet completed. The appropriations have been \$24,000 for 640 acres of land and \$400,000 for the erection of buildings.

PENITENTIARIES, FORT MADISON AND ANAMOSA.

This state has now two penitentiaries, one at Fort Madison, in Lee county, and the other at Anamosa, Jones county.

of Iowa, provision was made for the has become known as one of the best government to appropriate money for libraries in the United States, and is,

the erection of public buildings, and under this provision the old Capitol at Iowa City (now used by the State University) and the main building of the penitentiary at Fort Madison were built. The latter was completed in 1841, and is probably the only building of the kind provided for any state at the expense of the national government. The value of the present buildings and wall is \$500,000: other property additional, \$45,000.

In 1872, an additional penitentiary was built. mainly by convict labor. It at Anamosa. is a very fine structure and has a library of more than 3300 volumes. The present value of buildings and grounds is estimated at \$2,650,000; machinery and supplies additional, \$32,000.

The criminal statistics show that the number of inmates in these institutions during the past ten years has been, in December, as follows:

1886666	1892 662
1887638	1893 806
1888588	1894 898
1889599	1895 999
1890 603	18961086
1891668	18971145

OTHER STATE ORGANIZATIONS AND SOCIETIES.

The State Library, established in 1860, and the State Historical Department, organized July 1, 1892, have their location in the Capitol, at Des Moines. Though separate and distinct institutions, they are managed by the same board of trustees, consisting of the Governor, the Supreme Judges, the Secretary of State and the Superintendent of Public Instruction.

The State Library was founded for the special benefit of the Supreme Court, but afterwards there were added other books useful to the members The one at Fort Madison was estab- of the legislature and other state offilished by an act of the territorial leg- cers. In 1895, it contained 45,000 volislature, January 25, 1839. In the act umes, of which 21,000 were in the law of congress, establishing the territory department. It has grown until it erence and study.

The Historical Department, com-

time to time thereafter. From this ing them for cultivation. beginning, through the personal efforts of Mr. Aldrich, has grown the "Historical Department of Iowa," with its wealth of facts, curios and collection—a veritable depository of varied and valuable historical matter —perhaps the most elaborate possessed by any state in the Union. This collection is always open to the free inspection of the people, to whom it now belongs.

The Historical Society, organized in 1857, for the purpose of collecting, arranging and preserving a library of books, pamphlets, statuary and other material, illustrative of the history of Iowa, has its headquarters at the State University, Iowa City. It publishes quarterly a periodical of 80 pages entitled, The Annals of Iowa.

Agricultural Society, organized in 1854, held the first state fair in October of that year. Previous to 1885, the annual exhibitions of the products of the state were held in different localities, but that year encouragement of scientific work and large and valuable grounds were pur- the collection of a library for the

therefore, a great institution for ref- headquarters of the society were located permanently in the Capitol.

The Horticultural Society, organmonly known as the Aldrich collec- ized in 1864, has for its object the protion, was established for the purpose motion and encouragement of hortiof promoting the collection and pres- culture and arboriculture in Iowa, by ervation of historical materials re- the collection and dissemination of lating to Iowa, and the territory from practical information regarding the which it was established. Three rooms cultivation of such fruits, flowers and located in the southeast basement trees as are best adapted to the soil story of the Capitol have been set and climate of the state. It publishapart for this collection and they are es lists of fruits, as well as trees for in charge of Hon. Charles Aldrich, timber or ornament, that may be succurator, the founder of the collection, cessfully grown in this state. In or-In 1884, Mr. and Mrs. Chas. Aldrich, der to facilitate this work the state is residents of Webster City, through the divided into twelve districts, each trustees of the State Library, present- having its own director, and holding ed the state their autograph collec- its own yearly meeting. It has now tion, on the condition it should be established twenty experimental stakept by itself, in suitable cases, in the tions in different parts of the state for library, and that they should be per- the purpose of testing trees, shrubs, mitted to make additions to it from plants and fruits before recommend-

> It is a voluntary association, the annual membership fee being \$1.00, and a life membership \$5.00. The annual meetings, since 1892, are ordinarily held at their rooms in the Capitol, on the second Tuesday of December, and the proceedings are published in an annual report that is usually full of interesting and valuable papers. This is sent free to all the members of the society.

> The Improved Stock Breeders' Association, organized in 1874, has for its object the improvement of Iowa live stock and the promotion of that industry.

> The Iowa State Teachers' Association is a voluntary organization of educators from the various departments of that work in the state. This association was formed at Muscatine, May 10, 1854, and holds an annual convention during the holidays.

The Iowa Academy of Sciences, organized in 1886, has for its object the chased at Des Moines, and the official state, consisting of the publications of

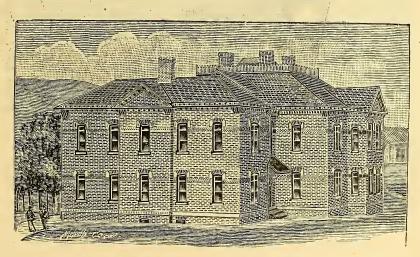
the scientific societies of the world. It holds an annual meeting at the same time and place as the State Teachers' Association.

The Educational Board of Examiners was created in 1882, to encourage ditional persons, one of whom must this Board. be a woman, appointed by the governcertificates for five years and state di- New York, as State Geologist. The plomas for life, to competent, experi- second was authorized April 2, 1866, enced teachers who are examined by by the appointment of Charles A. it.

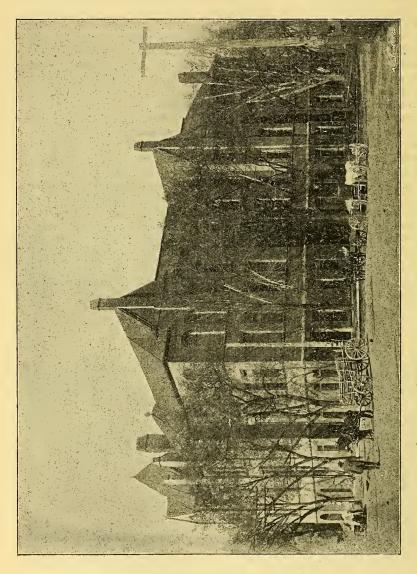
There are three State Boards of Control that issue certificates to those entering their respective fields of effort, namely: The Commissioners of Pharmacy, created in 1880; the Board of Dental Examiners 1882, and the Board of Health, in 1886.

The members of the latter are appointed by the governor, one each year, and they hold office for a term of seven years. To regulate the practice of medicine, a State Board of Medical Examiners was created in training in the science and art of 1886, to consist of the physicians of teaching, and consists of the Superin- the State Board of Health and its tendent of Public Instruction, the Secretary. Every person practicing Presidents of the State University medicine in the state of Iowa is reand State Normal School and two ad-quired to procure a certificate from

The first geological survey of the This Board holds at least two ex- state was instituted January 31, 1855, aminations annually, and issues state by the appointment of James Hall, of White, of Iowa City, as State Geologist, and he published two volumes of valuable information. The third survey was authorized in 1892, when the Geological Board appointed Samuel Calvin, of Iowa City, as State Geologist. Three valuable volumes have been prepared by him and the survey is still in progress.



SCHOOL HOUSE OF SCHOOL FOR THE DEAF, COUNCIL BLUFFS.



# Χ.

# EDUCATION, RELIGION AND PATRIOTISM.

"The rewards of Heaven are to be the development of something within us, rather than the addition of something from without."—Stinson.

#### EDUCATION.

"An investment in knowledge always pays the best interest."



limits present Iowa was taught by Berryman Jennings, at Nashville, Lee county, in the last

months of the year 1830. In December of the same year, J. K. Robinson began a term of school at Keokuk. In the winter of 1833-4, Geo. Cubbage taught a school in a log church in Dubuque. The first lady teacher was Mrs. Rebecca Palmer at Fort Madison in 1834. In 1837, Louisa King opened a school for young ladies, at Dubuque, and conducted it for several years. In 1839, Alonzo Phelps established in the same city a classical school for both sexes, that was afterwards continued by Thomas H. Benton, Jr.

The first building used chiefly as a a school house.

"The General Assembly shall encour- superintendent.

HE first school in the age by all suitable means the promoof tion of intellectual, scientific, moral and agricultural improvement." It also required that every school district support a school at least three months each year. The right and duty of a state to maintain a general system of popular education and generously to support the same by a uniform levy of taxes, became thus clearly recognized and permanently established as the policy of the new state.

> The school law of 1849, authorized the electors of any district to determine whether a school of higher grade should be maintained, and several of the more populous districts, availing themselves of this favorable enactment, very early began to classify and grade their schools.

During the fifties, the increase in public school house, was erected of population became very rapid and roughly hewn logs, donated by the there was a corresponding developpatrons, at Burlington in 1833. The ment of school facilities. Rural comschool house built at Dubuque in 1844 munities and villages multiplied as if was the first one erected from funds by magic, towns put on the air of derived by taxation under the law of cities, larger school-houses were de-January 1, 1839, which granted the manded and supplied, and the need of voters of any school district the power graded and high schools became more to levy a tax, select a place and build keenly felt. Before 1860, the cities of Dubuque, Davenport and Tipton had The constitution under which Iowa made provision for a systematic orentered the Union in 1846, declared: ganization and the selection of a city by general taxation proved insuf- the state and county apportionment ficient to maintain the schools as long and to maintain a free school in each a period each year as the people de-sub-district, at least six months in sired, and the term of school was each year. supplemented by subscriptions on the \*2. Each county elects biennially a part of the parents or guardians of Superintendent of Public Schools, who the pupils in attendance. lightened public sentiment at this certificates, visits schools, hears and time demanded that the schools be determined cases appealed from the free and wholly supported by general board of directors, has general overtaxation.

State Board of Education. ifications, we append a brief summary.

Each civil township forms a school district and it is divided into as many sub-districts as there are neighborhoods requiring separate schools. When it is fully settled, the township will ordinarily consist of nine sub-districts, each embracing the families residing on four sections of land. Each sub-district elects annually, on the second Monday in March, a sub-director. These sub-directors compose the Board of Directors for the township, and meet regularly on the third Monday in March and September. In rural independent sub-districts,\* the Board consists of three members, one of whom is elected annually to serve a term of three years. In the independent districts of cities of the first class, the Board consists of seven members and in other independent city or incorporated town districts, of five members all of whom are elected for a term of three years. It is the duty of these Boards of Directors to select sites and make contracts for the erection of school houses, to employ teachers, to determine the amount of tax necessary to be

\*Lizard Township, Pocahontas County.

Previous to 1857, the money raised raised in the district in addition to

An en- examines teachers, issues and revokes sight of the public schools of the coun-In 1858, the General Assembly of ty and makes an annual report to the Iowa passed a comprehensive act, cre-Superintendent of Public Instruction.

3. A State Superintendent of Pubproviding for the examina- lic Instruction is elected biennially tion of teachers and, in general, em- by the people, who has general superbodying the essential features of the vision of the County Superintendents admirable system of education in this and of the public schools of the state. state, of which, including recent mod- He renders written opinions on the administration of the school laws, determines cases appealed from the decisions of County Superintendents, appoints Teachers' Institutes in the various counties, prepares and distributes school laws and blanks to the County Superintendents and makes a biennial report to the General Assembly.

> 4. The public schools are maintained chiefly by funds derived from the following sources:

> First, By the interest on the Permanent School Fund. This fund, now amounting to several millions of dollars, and constantly increasing, is derived from the sale of public lands donated by Congress, being section number sixteen in each township, the additional grant of 500,000 acres in the Act of December 28, 1846, admitting Iowa into the Union and from five per cent on the sale of government lands within the state.

> Second, By a county tax of not less than one mill nor more than two and one-half mills on the dollar, on the assessed value of all taxable property in each county.

> Third, By a district tax—amount unlimited—on all the taxable property

in each district township.

5. In addition to the provisions made for the support of common schools, the state appropriates fifty dollars annually to each county holding a teachers' institute.

The bible shall not be excluded from any public school or institution in the state, but no child shall be required to read it contrary to the wishes of his parent or guardian.

"Four things a man must learn to do If he would make his record true: To think without confusion clearly; To love his fellow-men sincerely; To act from honest motives purely; To trust in God and Heaven securely." -HENRY J. VANDYKE.

The pioneer log school house increased in numbers until 1861, when 893 were reported out of a total of 3,479. As population and wealth increased school houses were built larger, of better material, more inviting in appearance and more frequently supplied with the facilities necessary for the attainment of the highest degree of success in school work.

In 1849, the average value of each of the 387 school houses was about \$100; in 1850 the average of the 3,208 buildings was \$376; in 1874 of the 9,228 \$802; and in 1891 of the 13,273, \$1,040. The gradual and continued improvement in the school houses and their surroundings is an index of the great advancement in all valuable and desirable particulars.

If natural shade does not already exist on the school grounds, the law directs that trees for shade and ornament shall be planted. This enactment of 1882 prepared the way for the state-wide observance of tree planting and since May 4, 1887, Arbor Day has been designated for this annual festival and the floating of the flag from the school house.

every hundred employed were men. This difference gradually diminished

gentler sex employed became the greater, and in 1897 they numbered 22,208 and the men only 5,824. The eminent fitness of women for the office of teacher has thus been favorably recognized in Iowa.

The constant and rapid increase in the amount expended for educational purposes is indisputable evidence that the public schools are appreciated by the people. The amount paid in 1897 for school purposes was \$11,910,706.58 -all raised by voluntary taxation except the semi-annual apportionment of \$816,044.27, a part of which is derived from the interest on the permanent fund.

The census of 1880 credited Iowa with a lower percentage of illiteracy than any other state of the Union. The interest the people of Iowa have always manifested in all that pertains education furnishes abundant ground for confidence in the continued growth and development of their matchless system of free schools. Intelligent labor insures prosperity, and the public schools of Iowa afford the humblest boy an opportunity to acquire the intelligence necessary to enable him to fill high positions with credit and honor.

The higher education is provided for in the State University, State Normal School, Agricultural College and the 275 other educational institutions established throughout the state by the churches or by individual enterprise, employing, in 1895, 1,391 instructors, and representing an investment in buildings and grounds of \$4,179,250, with an additional permanent endowment fund of \$1,157,000.

THE STATE BOARD OF EDUCATION.

After the adoption of the constitution of 1857, the system of education in Iowa was modified by the creation In 1850, seventy teachers out of of a State Board of Education that was continued until March 23, 1864. On December 24, 1858, this Board until 1862, when the number of the abolished the office of State Superintendent of Public Instruction, and the youth the means of an intellectual secretary of this Board performed the culture essential to useful and honorusual duties of that public officer, from December 29, 1858, to March 23, 1864, when the Board of Education was abolished and the office of Superintendent of Public Instruction was restored.

THE STATE BOARD OF CONTROL.

There are sixteen State Institutions in Iowa, established by the legislature. As they were founded provision was made for their management by the appointment of a separate board of trustees for each institution. This system of administration proved a source of considerable trouble to the several state officers in making their biennial reports to the Governor and was unsatisfactory from the economic standpoint. For these reasons the legislature in 1898 abolished the several separate systems of independent management and organized a new system under one management, called "The State Board of Control." This Board, consisting of three members, appointed by the Governor with the approval of two-thirds of the senate in executive session, assumed control July 1, 1898. It has been assigned complete authority over thirteen of the State Institutions, which includes all of them except the University, the Agricultural College and the Normal School. Over these three it exerts supervisory control only so far as the management of their financial This Board has affairs is concerned. its office in Des Moines, and its first leadings of Divine Providence, great or present members consist of Hon. William Larrabee, Hon. L. G. Kinne and Hon. John Cownie.

CHURCHES AND CHURCH WORK.

Walk about Zion, Mark ye well her bulwarks; Consider her palaces, That ye may tell it to the generation following.—David.

If the people of Iowa have shown

able life, they have also recognized the importance of the proper culture of the moral faculties, and, desiring the prevalence of sobriety, piety and good order, they have not only taxed themselves to provide facilities for public education, but have contributed voluntarily large gifts to promote religious instruction, moral culture and the public worship of God.

Devoted christian men and women came with the first immigration in the permanent settlement of this territory. Loyal to their God, their christian profession and the moral interests of the communities they were establishing, they soon invited the services of the ministers of religion, and in their humble circumstances generously planned and labored to secure this beautiful region to the dominion of their Lord. They endured privations, worshiped in lowly cabins, often in the shady groves, "God's first Temples," and by their fidelity to christian principles, made the religious freedom, privileges and moral excellence we now enjoy, a gracious possibility.

Enthusiasm in religious work led to the discovery of Iowa. The settlement of the territory did not immediately follow its discovery. One hundred and sixty years passed before the first settlers came to found homes in the area now constituting this state. In that period of time, through the intellectual and political changes occurred. Inventive genius evolved new agencies of moral as well as intellectual, mechanical and military power, that resulted in vast changes, not only in their geography, but also in the social condition and the religious ideas pervading christian nations. Under divine guidance this fertile and divinely favored region was regreat interest in securing for their served for settlement until these forces telligent, liberal christian citizenship, Missouri river and north of the states hating oppression and loving right- of Illinois and Missouri. This was the eousness, should bring to this beauti- first Presbyterian church erected in ful land the highest type of christian all this territory. civilization ever enjoyed by men.

The country east of the Mississippi this place the same year. river was thrown open for settlement ment of Iowa began and on the 8th of the state and yield their rich fruitage August that year, a Congregational of cultured christian beneficence to minister from Galena, held religious carry the tidings of grace to other services at the home of Mrs. Willough- communities. Many of the three score by, in the settlement at Dubuque. So and four years, that have passed since far as known, this was the first relig- the first church was built in Iowa, ious service held within the bounda- were years of privation and hardship, ries of the state. Soon thereafter, in nevertheless the progress of the the same settlement, Father McMa-churches has been wonderful. Beauhon, a Catholic clergyman, celebrated tiful and substantial church edifices mass in the home of Patrick Quigley. have been erected in every center of

a Presbyterian minister, preached tion, in Iowa. about three months in this log build- EXHIBIT OF CHURCH GROWTH IN IOWA. ing, alternating with the Methodists. A Presbyterian church was organized and at his instigation measures were taken for securing a house of worship that resulted in the erection of a stone church, that after the lapse of some years, was transferred to the Christian church. The corner-stone of this building was laid July 1, 1836, in the presence of Judge Dunn, Chief Justice of the Territory of Wisconsin that embraced at that time the whole vast

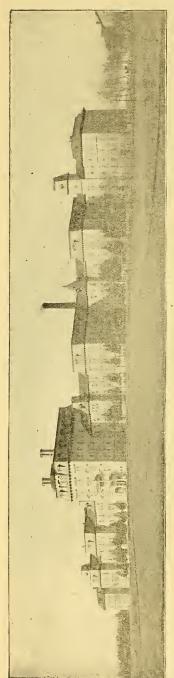
were in effective operation and an in-section west of Lake Michigan to the The Catholics erected their first church in Iowa at

From these small beginnings, that in 1828, and Galena, in the vicinity of but dimly suggested speedy enlargethe lead mines, became an active ment, have grown the great religious frontier town, with a resident minis- organizations that now flourish with ter. In 1833, the permanent settle-richness of blessing, in all parts of On the 6th of November the same population and in addition thereto year, Rev. Barton Randle, a mission- 206 colleges, academies and other ecary of the Methodist Episcopal church, clesiastical institutions of learning visited Dubuque and held services in have been erected through their ina private house. Early in the follow- strumentality. These religious eduing year, he organized a class\* in the cational institutions represent a betown and this appears to have been nevolent investment of more than the first religious society formed in \$5,000,000, of which \$1,000,000 is in the Iowa. During that season this soci- form of a permanent endowment for ety built a small church of logs, 20x26 their support. Thousands have defeet, and this was the first church vised liberal things for the establishbuilding erected in the state. In the ment and maintenance of the church winter of 1835-6, Rev. Cyrus Watson, and her handmaid christian educa-

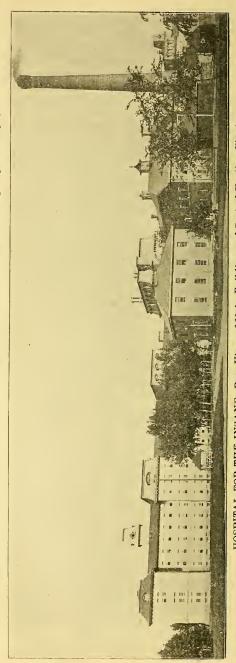
			1850	1870	1895
Church	buil	dings.	207	1446	4480
			\$177,425	\$5,730,352	\$15,105,085
Average	of		\$809	\$3,963	\$3,375
Seating			43,529	431,709	1,305,804
Denomi					43
Meth, c		h b'dgs		493	1,382
Pres.	61	6.	38	222	454
Luth,		-64	5	45	424
Cath,	66	6.6	18	195	411
Bap.	4.6	4.6	23	165	398
Christ.	٠.	6.6	11	48	255
Cong.		- 6	14	125	251
U.B.	6.6	4.6		28	156
Friends		4.4	5	60	82
Ref'd	6.6	6.6	4	17	66
Epis.	44	4.4	5	36	65
Other d	enor	ninatio	ns 17	148	536
Populat	tion,		192,214	1,194,020	2,058,069

The statistics for the year 1895 show

Four members,



HOSPITAL FOR THE INSANE, INDEPENDENCE.-Front View of Main Building. Opened May 1, 1873.



HOSPITAL FOR THE INSANE-Rear View of Main Building and Central Heating Plant,

the church was at that time, 571,264 sons, and the amount contributed for and the Sunday School membership their support was \$172,442. Mrs. Matwas 365,441. The voluntary offerings tie M. Bailey, for many years the efof the people for the support of the ficient secretary of this association, church that year, which was one of reported that 75 per cent of the Sun-"hard times," were as follows:

Satary of ciergy,
Contingent Expenses paid806,779
Paid for new buildings in 1894 846,555
Paid for support of Sunday Schools 172,442
Making annual support of church\$3,901,831
Value of Church buildings was\$15,105,085
Value of Parsonages was 2,492,906

Salary of clercy

Making churches and parsonages. ...\$17,597,991 Amount Invested in Christian Educational Institutions was., 5,000,000

Permanently invested in buildings and property belonging to the church in Iowa, and freely donated during the first half century of her history.

It will be perceived this exhibit does not show the missionary offerings of the churches which now amount to nearly half a million dollars annually. It should also be noted that the voluntary offerings for the support of the church in 1892, before the hard times set in, were more than \$5,000,000, instead of the \$3,901,831 of 1895.

The work of the church in every community is a vital factor in promoting its best interests. The work done by those devoted, godly men and women who laid the foundations for these grand results in the formative years of this commonwealth, did much to insure and accomplish its prosperity. This liberality demonstrates, not only that the christian people of Iowa are of a progressive disposition, but also that they are in prosperous circumstances and have regard for their religious convictions and privileges.

Iowa has an active working State establish were nearly 5,000 Sunday Schools, rep- the slave-cursed South, came to enjoy

that the communicant membership of resenting a membership of 365,441 perday Schools of the state are contin-\$2.076.055 ued throughout the year; that at least one million copies of Sabbath School papers are distributed through them and that their libraries of religious books contain at least 100,000 volumes. These facts show that the people of Iowa are earnestly and generously engaged in the work of training the rising generation in the principles of morality and religion.

#### PATRIOTISM.

When Iowa was opened for permanent settlement, after the Black Hawk Indian war of 1832, the contentions regarding the limitation or extension of Negro slavery that culminated in the civil war, had begun to agitate the country. The Missouri Compromise, adopted in 1820, as a settlement of this troublesome question, was in its most vital force, when in 1833 the pioneers crossed the Mississippi to found permanent settlements in Iowa. By the provisions of this compromise the area forming this state was consecrated to freedom. Although, according to the census of 1840, sixteen slaves were held within its borders, under its territorial government, ultimate freedom from slavery was fully assured to this region. "Immigrants from the New England states flocked to this new field, bringing with them as one of their chief possessions, an intelligent patriotism—a legacy of patriotic sires, who stood bravely for freedom at Lexington, Bennington and Bunker Hill. Other settlers coming from the Central and Eastern states to this free western country to a new commonwealth, Sabbath School Association that holds brought with them a hearty affinity an annual convention. In 1895, there with that spirit. Others coming from suit of happiness." \*

slavery by the repeal of the famous terrible hour. Missouri Compromise of 1820, that into the territory of Nebraska."

gave voice and vote that others set- men. tling new territories throughout this "Sleep sacred dust of noble dead, heaven-bequeathed advantages. spirations of the noblest patriotism that have made Iowa, in her brief his- country was costly in precious lives. most orderly states of the Union.

When in April, 1861, the stirring twenty-four loyal states were more earnest in patriotic determination and deed than were the people of this state. The patriotism of the people

a deliverance from the scenes and as- that more men volunteered for servsociations of that oppression. They ice at their country's call than were believed that all men were endowed required from this state. Her citizen equally by the Creator, with the right soldiery toiled in almost every march, to their own muscle, bone and natural fought in almost every battle and powers, and with equal rights to free-bravely fell everywhere at the front. dom of thought and action in the pur- Her generals from hamlet and farm, made honorable history, earning re-When there was a manifest tenden- nown on many fields and no foul stain cy to extend the baneful institution of tarnished the honor of Iowa in that

Forty-nine regiments of infantry from the time of its enactment had (forty-eight of white troops and one of been regarded as a perpetual guaran- colored), nine regiments and two exty of freedom, to the great north- tra companies of cavalry, and four batwestern portion of this country, the teries of artillery were enrolled in the people of Iowa cast a decisive major- patriotic force, making 56,364 men in ity vote on the platform, declaring duly organized and reported Iowa "We most unqualifiedly and emphat- troops, while there were 19,155 enlistically disapprove of the efforts now ments of Iowa men in other states, made in congress to legislate slavery that made the grand army of 75,519 men enrolled, or one for each ten per-They then believed that the broad- sons of her population at the close of est possible freedom was essential to the struggle. Of those reported in the true happiness of the people and Iowa organizations, 3,360 were killed real prosperity of the state. They or died of wounds received in battle claimed civic freedom for themselves and 8,810 died of disease or fell by acand their posterity and patriotically cident, making a total loss of 12,170

broad West, should enjoy these same Spring's brightest bloom shall deck your head."

Iowa's part in the conflict for perdetermined the lines of development petual, national unity in a redeemed tory, not only one of the freest and Her homes were made sad by the sormost progressive but also one of the rows of war, but her people faltered not when called to patriotic duty.

beautiful monument, costing message that rebel hosts assailing \$150,000, was erected in 1895, by the Fort Sumpter had made necessary the State of Iowa, south of the Capitol in proclamation of President Lincoln, Des Moines, to commemorate the summoning the states to send armed heroism of the Iowa soldiers and sailmen to maintain the national author- ors of 1861 to 1865. It is an upright ity, the citizens of no other of the shaft surmounted with the statue of victory.

"Situated in the central region of the grand constellation of states, Iowa favors their perpetual union. of Iowa had its expression in the fact Herintelligent citizens regard each star with equal respect. In the na-



IOWA SOLDIERS' AND SAILORS' MONUMENT, Erected in 1895 at a cost of \$150,000, south of the Capitol, Des Moines.

tional parliamentary halls her citi- uel J. Kirkwood upon his election as zens have won fame and honor; in the United States senator. highest judicial chambers her citizens have gained honored name; in the high duties of cabinet councils and diplomatic offices her representatives have rendered distinguished service. Exalting the fatherhood of God and the brotherhood of man, she recognizes each of her citizens as having equal rights to life, liberty, the advantages of her schools and the protection of her government."

"Land of the noble heart and brave! How leaped thy men in the thickest fray. When died our noblest sons, to save Our mighty realm to freedom's sway; Thy children know where honor lies, The deeds that greatness consecrates: And on their matchless virtues, rise The pillars of a peerless state."

-HORATIO N. POWERS.

### SUCCESSION OF GOVERNORS.

The following gentlemen have filled the executive chair of the state since the admission of Iowa into the Union: Succession of United States sena-

	Date	County	
Of	Service.	Represented.	
Ansel Briggs	1846-1850,	Jackson.	
Stephen Hempstead	1850-1854,	Dubuque.	
Jas. W. Grimes	1854-1858,	Des Moines.	
Ralph P. Lowe	1858-1860.	Lee.	ı
Samuel J. Kirkwood	1860-1864,	Johnson,	
William M. Stone	1864-1868,	Marion.	•
Samuel Merrill	1868-1872,	Clayton,	٠
Cyrus Carpenter	1872-1876,	Webster.	9
Samuel J. Kirkwood	1876-1877,	Johnson,	,
Joshua G. Newbold	1877-1878,	Henry	
John H. Gear	1878-1882,	Des Moines.	•
Buren R. Sherman	1882 1886,	Benton.	
William Larrabee	1886 1890,	Fayette.	(
Horace Boies	1890-1894.	Black Hawk	7
Frank D. Jackson		Polk.	
Francis M. Drake	1896-1898,	Appanoose,	-
Leslie M. Shaw	1898 to pre		•
Joshua C Nor			

Joshua G. Newbold was elected Lieutenant-Governor, but became

#### CABINET OFFICERS.

Six citizens of Iowa have held positions in the cabinet of the President of the United States, as follows:

JAMES HARLAN Was Secretary of the Interior in the second administration of Abraham Lincoln.

W. W. Belknap was Secretary of War in Gen. Grant's administration.

Samuel J. Kirkwood was Secretary of the Department of the Interior, under Presidents Garfield and Arthur.

George W. McCrary was Secretary of War under President Hayes.

Frank Hatton was Postmaster-General during part of President Arthur's administration.

James Wilson is now Secretary of the Department of Agriculture, under the administration of President Mc-Kinlev.

TORS.

Iowa has been represented in the United States Senate by the following citizens:

Geo. W. Jones, of Dubuque......1848 to 1859 Augustus C. Dodge, of Burlington...1848 to 1855 James Harlan, of Mt. Pleasant......1855 to 1865 James W.Grimes, of Burlington.....1858 to 1870 Samuel J. Kirkwood, of Iowa City... 1866 to 1867 James Harlan, of Mt. Pleasant.......1867 to 1873 Jas. B. Howell, Keokuk, Jan. 20 to Mch. 4, 1871 (To fill vacancy caused by death of James W. Grimes.)

Geo. G. Wright, of Des Molnes ..... 1871 to 1877 William B. Allison, of Dubuque, 1873 to the present time.

Samuel J. Kirkwood. of Iowa City... 1877 to 1881 

James F. Wilson, of Fairfield ..... ... 1883 to 1995 Governor on the resignation of Sam- John H. Gear, Burlington, 1895 to pres. time.

## THE HISTORY

# Pocahontas County, Iowa,

-0F---

### IN THREE PERIODS.

### PERIODS.

1—1856-1869—Period of Early Settlement by Pioneers.

II—1870-1882—Period of Organization and Railway Construction.

III—1883-1898—Period of Growth and Development.

---INCLUDING AN ACCOUNT OF---

The Previous Establishment of the County, Its Survey,

-AND THE STORY OF-

POCAHONTAS,

The Indian Princess of Virginia.



THE OLD CAPITOL AT IOWA CITY.

It was occupied by the General Assembly of Iowa from Dec. 6, 1841, to March 5, 1857. It is now the Central Building of the State University.

### HISTORY OF POCAHONTAS COUNTY.

### PIONEER PERIOD, 1856-69.

"Behold the new Eden! At last man has found it."

### Τ.

### THE COUNTY ESTABLISHED AND STORY OF POCAHONTAS. AFTER WHOM IT WAS NAMED.

"My native country, thee Land of the noble free, Thy name I love.'



its present name by an act of the third General Assembly of

the state of Iowa, that convened at Iowa City, December 3, 1850. This new counties and to define their boundaries," and it was approved January 15, 1851.

HE county of Poca- ships 93 and 94, to the northwest corhontas was established and received and 35 to the southwest corner of township 90, north, range 34 west; thence east on the line between townships 89 and 90 to the southwest corner of township 90, range 30; thence north to the place of beginning."

This act established and defined act was entitled, "An act to establish the boundaries of fifty new counties in northern and western Iowa, as follows:

Union, Adair, Adams, Cass, Montgomery, Mills, Pottawattamie, Bre-Section 29 of this act reads as follows: "That the following shall be the boundaries of a new county which shall be called Pocahontas, to wit: Beginning at the northwest corner of township 93 north, range 30 west; thence west on the line dividing townWoodbury), Humbolt (1853, extinct, 1857, Humboldt), Pocahontas, Buena Vista, Cherokee, Plymouth, Chickasaw, Floyd, Cerro Gordo, Hancock, Kossuth, Palo Alto, Clay, O'Brien, Sioux, Howard, Mitchell, Worth, Winnebago, Bancroft, Emmet, Dickinson, Osceola, Buncombe (1862, Lyon).

When the county of Dubuque was established by the territorial legislature of Michigan, at Detroit, it included the territory contained in Pocahontas county, as appears from the following act, approved September 6, 1834:

An act to lay off and organize counties west of the Mississippi river.

Sec. 1. Be it enacted by the Legislative Council of the Territory of Michigan, That all that district of country which was attached to the Territory of Michigan, by the act of congress, entitled "An Act to Attach the Territory of the United States West of the Mississippi River, and North of the State of Missouri to the Territory of Michigan," approved June 28, 1834, and to which the Indian title has been extinguished, which is situated to the north of a line to be drawn due west from the lower end of Rock Island to the Missouri river, shall constitute a county, and be called Dubuque. The said county called Dubuque. shall constitute a township, which shall be called Julien. The seat of justice shall be established at the village of Dubuque until the same shall be changed by the Judges of the county court of said county.

The territory thus included in the boundaries of Dubuque county, contained all of the northern half of the present state of Iowa, all of the state of Minnesota west of the Mississippi river and all the territory of the states of Dakota, east of the Missouri river, being the largest territory ever included in the boundaries of one county.

In 1837, the lower tier of townships, of what is now Pocahontas county, namely: Lizard, Bellville, Colfax and Cedar, formed a part of Buchanan county, and the remainder, a part of Fayette.

\*See page 58.

When the county was established in 1851, it was first temporarily attached to Polk county, for revenue, election and judicial purposes. On January 22, 1853, it was similarly attached to Boone county and on July 1, 1855, to Webster county.

Pocahontas county was organized by an order of the County Judge of Webster county, who issued an order February 19, 1859, directing an election to be held on the 15th day of March following, when a full Board of county officers was elected.

It is of interest to note that Pocahontas is one of those counties of Iowa that has a name of Indian origin. The names of local tribes of Indians have been preserved in the names of Iowa, Sac, Sioux, Winnebabago and Pottawattamie counties; and of southern tribes in the names of Cherokee and Chickasaw counties.

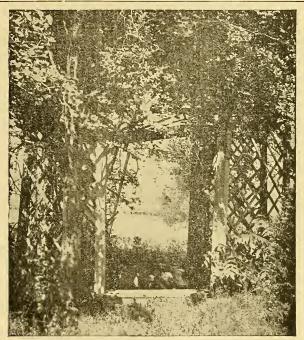
The names of the most noted chiefs of local tribes have been preserved in the names of the following counties of Iowa: Appanoose and Black Hawk, (both of whom were powerful chiefs of the Sac and Fox tribe), Keokuk, (a Sac, sometimes called "The watchful fox," or "He who has been everywhere"), Wapello, (a Fox, "The playing fox''), Mahaska, (a chief of the Iowas, "White Cloud"), Powesheik, (a Sac, "The roused bear" or "The shedding bear") and Winnesheik, (a Winnebago, "Yellow Thunder" or "Coming Thunder.")

It is also worthy of note that Pocahontas is one of three counties in Iowa that have been named after noted women, the other two being Bremer and Louisa. Bremer county was named in honor of Frederika Bremer, the Swedish traveler and author. Louisa county was named in honor of Louisa Massey, a young lady of Dubuque, who, a few months before the passage of the act of the territorial legislature of Michigan at Belmont, in 1836, creating the county,

had shot a ruffian named Smith, who and who in the writings of John Smith and was believed to be making an op- "King" and "Emperor of Virginia." portunity to execute the threat, he The name "Pocahontas" signifies "a

had threatened the life of her brother and his contemporaries, was called

having previously participated in the rivulet between two hills," and she murder of an other brother. She was was so named because she was a peacea heroine, and among the early pio- maker between two peoples. She neers, heroes and heroines were highly was born about 1595, and by her respected and honored whenever an friendly offices toward the colonists, opportunity was presented. The pio- saved them on several occasions from



The Grave of Powhatan, "Emperor of Virginia," 1608-19, on the Jamestown river.\*

mindful of the claims of women for tility. recognition.

Powhatans of the James river valley, plorer, in pushing his canoe through

neer law-makers of Iowa were not un- the consequences of her father's hos-

POCAHONTAS SAVES JOHN SMITH.

This county was named in honor of The most noted instance of this Pocahontas, the Virginia Indian prin- kind is said to have occurred in 1607, cess. She was the daughter of Pow- at a place on York river, in what is hatan, the recognized leader of thirty now Gloucester county, Virginia. subordinate chiefs of the powerful John Smith, captain, knight and ex-

\*This and the three following plates, illustrating this chapter, are inserted through the courtesy of G. P. Putnam's Sons, N. Y., from "Colonial Homesteads" by Marion Harland, per favor of the Interior, Chicago.

the tortuous creeks of the Chicka- be on a hunting expedition. ter," her entreaties having failed, them. hastened to his rescue by embracing "to make him hatchets and her bells, miles by land from Jamestown. beads and copper." About six weeks later, he sent him under escort to Jamestown.

The angel pleading in her eye? How mock the sweet, imploring grace That breathed in beauty from her face, And to her kneeling action gave A power to soothe and still subdue." -Simms.

The circumstances that led to the capture of Smith were as follows: On Spaniard never more greedily desired made her his friend. son and Thomas Emery, in a canoe, brothers were but kings.

hominy swamp, fell into an ambush dians killed his two companions while of three hundred Indians. After a asleep in their tent, surprised and desperate defense he was taken pris- captured Smith while seeking food.

oner by O-pe-can-chan-ough, the broth- It will be remembered that the er of Powhatan, whom he succeeded English colony at Jamestown was esin 1618, and who carried out the great tablished June 22, 1607, by the arrival massacre of the colonists, on Good of one hundred and five persons, of Friday, 1622. By him he was carried whom sixty-seven had died from sickbefore Powhatan to be tried for kill-ness and starvation by the 8th of Janing two of the Indians. At the time uary following. Never were Englishof the trial a long consultation was men left in a foreign country in such held and then two great stones were misery as these first colonists of Virbrought before Powhatan, when as ginia. Their food consisted of barley many as could, laid hands on Smith, sodden with water, and their drink, dragged him to the stones, placed his the water from the James river, head thereon, and, being ready with which at flood was very salt and at their clubs to beat out his brains, Po-low tide, full of slime and filth that cahontas, "the King's dearest daugh- proved the destruction of many of

The country they had settled in was his head and laying her own head up-sparsely populated by numerous tribes on his to save him from death. Her of Indians, who owned as their parafather was moved by this unusual act mount chief, Powhatan, who then of intercession on the part of Poca- lived at We-ro-woc-o-mo-co, a village hontas, and permitted Smith to live, on the Pamunky river, about twelve

Powhatan, who in 1608, by King James I, was crowned "Powhatan I, Emperor of Virginia," as a matter of "How could the stern old king deny, courtesy, had twenty sons and ten daughters. Whether by beauty and sprightliness, or by force of her dauntless spirit. Pocahontas had a hold upon his savage nature that no other During his creature ever gained. captivity of some six weeks which afforded many opportunities of familiar December 10, 1607, Captain John discourse with those who kept him, Smith, of whom it was said, "The the knightly soldier, Captain Smith, The influence gold than he victual," with nine other upon her character and career of men in the barge, left Jamestown to this period and the subsequent intimaobtain some maize from the Indians cy to which it led can hardly be exagand to explore the upper waters of the gerated. She had inherited with her Chickahominy. At Apocant, he and father's imperiousness, the intellect two of his companions, Jehu Robin- that made him emperor, while his passed twenty miles further up the Smith, who had been assigned the river, where a brother of Powhatan duty of pleasing the fancy of the savwith about 300 Indians happened to age maiden, was a soldier, traveler,

dramatist, historian and diplomatist. child, intelligent beyond her years,

Pocahontas drew from him the earli- and meeting him at the most impresest aspirations that led to her conver- sionable period of her life, fashioned sion to christianity. Referring to her ideas of his people. Under her the period he himself remarked, providential tutor her mind, heart "What can a man with faith in relig- and ambitions assumed a new com-



Pocahontas, the Indian Princess of Virginia, as she appeared in London in 1616.

ion do more agreeable to God than to plexion. seek to convert these poor savages to When Powhatan offered him a prin-Christ and humanity."

without reproach, upon which the ply was made in the form of a request

cipality if he would cast in his for-He was the model, without fear and tunes with the tribe, his unselfish reThis favor he acknowledges was se- aid. cured through the successful inter-

his return to Jamestown, the presi- it. dency of the colony was forced upon him. Under his administration Jamestown became a village of nearly five hundred inhabitants, and a church was erected for public worship.

When starvation was staring the colonists in the face, Pocahontas, who was then "a well featured young girl, fleet of foot, black-eyed and brownskinned," frequently visited Jamestown with her "wild train" following her in single file, each bearing gifts of corn and game. As a King's daughter, she wore a white heron's feather in her hair and bands of coral on her wrists and ankles. Her slender, graceful form was wrapped in a robe of doe skin, lined and edged with the down of pigeons. A queen in miniature, once in every four or five days she and her "wild train" laden with food, visited the colony until the peril from famine had passed.

In 1609, President Smith and eighteen companions, having visited Powhatan at his special request, Pocahontas, on a dark night and traveling alone through the woods to where they were encamped, gave them warning of an intended immediate attack by the Indians. She was not yet fourteen years of age, but showed herself a woman in depth of devotion to her friends, brave even to recklessness, and holding her own life as nothing by comparison with her loyalty. The attack was made as she had predicted and the catastrophe planned by the cunning chieftain was prevented only by the coolness and courage of Captain Smith.

A few months after this visit to Powhatan, Captain Smith was serious-

for a safe conduct to Jamestown, to his home in England for surgical

As soon as the savages had learned cession of Pocahontas with her father. that Captain Smith had left the On September 10, 1608, soon after colony they decided to make war upon

### POCAHONTAS A CAPTIVE.

Though humbled as a slave, To more than queenly sway, she grew.

In the meantime, the secret mission by night of Pocahontas had been discovered to her father, and he wreaked his wrath upon her until existence with him became unendurable and she sought an asylum of refuge in the wigwam of Japazaws, a chief of the Potomac tribe, an old acquaintance of Captain Smith and friendly to the English.

Captain Samuel Argall, a privateersman, being sent up the Potomac for corn and learning that a daughter of Powhatan was the guest of the Indian's squaw, by the gift of a burnished copper kettle succeeded in getting Pocahontas to visit his vessel. When she stepped aboard the vessel, the captain told her before her friends she must go with him and make peace between Powhatan and the colonists before she should see her father. Thus she became a prisoner and was held by the colonists for the purpose of exacting a ransom from her father and as a means of maintaining peace with the Indians.

She was now (1612) nearly eighteen years old, had soft, wistful eyes, delicately arched brows, a mouth at once proud and tender, and slender hands and feet. She was not tall, but erect, and carried herself, as a daughter of a king, with a sort of imperious grace that rebuked familiarity.

When the message had been sent to Powhatan that his daughter, Pocahontas, whom he loved so dearly, must be ransomed by the return of all white prisoners and stolen property it troubly injured while on the river and on led him greatly, but three months October 4, 1609, was obliged to return passed before he sent any reply or took

any notice of the humiliating intelligence.

oners, each with an unserviceable equal to his own, Pocahontas brooded musket, and sent word that when his over this public insult offered her by daughter was delivered he would make his silence and seeming indifference. satisfaction for all injuries done, give But if she was branded as an outcast 500 bushels of corn and forever be from her father's heart and tribe the a friend of the colonists.

This reply displeased him and nothing more was heard from him for a He then returned seven white pris- long time afterward. With a pride people of Jamestown received her



CAPTAIN JOHN SMITH.

made answer that his daughter would long repressed craving for refinement be well used, but that they could not and knowledge of the great, beautiful believe that the rest of their arms world—the echo from which had first that had been captured were either thrilled her untaught soul during the lost or stolen from him, and therefore golden month passed in her forestuntil he sent them they would keep home by the superb stranger with the his daughter:

To these advances the colonists with affectionate hospitality. "The kind eyes and winning smile-was now to be gratified." \*

In a subsequent conference with her brothers she remarked: "If my father had loved me he would not value me less than old swords, guns axes; wherefore, I will still dwell with the Englishmen who love me."

POCAHONTAS WEDS JOHN ROLFE, AS "LADY REBECCA."

The separation was now complete, and believing Captain Smith was dead, she fell in love with John Rolfe, "an honest gentleman of good behavior, fairly educated, a staunch churchman possessing a missionary spirit, a well-to-do widower and a protege of Sir Thomas Dale." Renouncing the idolatry of her own people and accepting the christian religion, she presented herself for baptism at the font in the church built at Jamestown, by Lord De la Ware, and was christened "Rebecca." Under this name Pocahontas was wedded to John Rolfe, about April 1, 1613. The tower still stands in which hung the two bells way.

peace between the two nations. Powhatan, true to his purpose of holding no personal communication with the after its occurrence, but he frequently sent friendly messages to his "daughter and unknown sonne" and inquired "how they lived, loved and liked."

Varina, the home of Pocahontas after her marriage, on the plantation of her husband, was located on the bank of the James river, near Dutch Gap, a few miles below Richmond; but the particular site of the cabin in which she learned to keep house after the manner of the English, and where her only child, Thomas Rolfe, was

\*Some "Colonial Houses," by Marion Harland .- G. P. Putnam's Sons, N. Y.

born is unknown. The banks of the beautiful river from Jamestown to Henricus are now gratefully consecrated to her dear memory.

June 12, 1616, in the fourth year after marriage, she, her husband and her little son, crossing the Atlantic ocean, landed in Plymouth, England, and there she became the object of admiring interest in fashionable cir-Before she reached London, Captain Smith petitioned Queen Anne on her behalf, and it is in this petition of June, 1616, that the account of his deliverance by the Indian girl, first appears.

After a pleasant, sojourn of about seven months in England, during which time she was well received both by the court and by the people, she became affected with that dread disease, rapid consumption, no doubt due to the effect of a northern winter upon her semi-tropical constitution. Preparations were hastened for her return to Virginia, but she died at Gravesend the day before the one set for their departure, and, according to that rang joyfully as bride and groom the popular tradition, "sitting in an passed out through the narrow arch- easy chair, by an open window, her eyes fixed wistfully upon the western This marriage cemented a lasting ocean." She was only twenty-two years of age and was buried in the cemetery belonging to the church of St. George, London, according to tracolonists, never visited his daughter dition, or at Gravesend, about thirty miles from London on the Thames, where she died, as is stated by her biographer, John R. Musick. The latter says, "She was buried in the chancel of the church at Gravesend, March 21, 1617, but that afterwards the church was destroyed by fire, and today the exact spot of her grave is unknown." The tradition that she was buried in the northwest corner of St. George's churchyard, London, has been reported successively from age to age through Thomas Turner, the venerable sexton in 1881, and his predecessors, William Nettingham and his father, John Nettingham. The former was sexton will be honored while this great peotwenty years and the latter clerk of the parish fifty-two years.

Come to the bridal chamber, Death, Come to the mother, when she feels For the first time, her first born's breath; Come when the blessed seals That close the pestilence are broke, And crowded cities wail the stroke. Come in consumption's ghastly form, The earthquake's shock, the ocean's storm, Come when the heart beats high and warm, And thou art terrible.

-HALLECK.

Other names by which she was known were "Amonate," "Mattoax" and "The Nonparella (having no equal) of Virginia." She was also called the "Rose of England" and the "Totem (emblem) of Virginia."

She was a landscape of mild earth, Where all was harmony calm and quiet, Luxuriant, budding.—Byron.

The brief and pathetic career of Pocahontas, (Bright Stream between two Hills) has appealed to the heart of every generation since her story became known. Her services to Virginia had been as great as those to Captain John Smith. She had been the colony from destruction. Generous, brave and gentle, she was doomed ken heart.

of the James:"

tas, born the daughter of a savage Rolfe's posterity. King, was endowed with all the graces which became an Indian princess; she hontas, after the death of his mother was the first of her people to embrace was left at Plymouth, England, in christianity and to unite in marriage charge of Sir Lewis Stukley, at the with the English race; like a guardian latter's request. angel she watched over and preserved uncle and he was brought up in Lonthe infant colony which has developed don. When a young man he went to into a great people, among whom her Virginia and as Lieutenant Rolfe. own descendants have ever been conspicuous for true hobility; her name & Wagualle, N. Y.

ple occupy the land upon which she so signally aided in establishing them."

"There is no story more dear to the heart of the American than that of Pocahontas. It has been narrated so frequently it has become a nursery legend, yet in all history none more dramatic and touching can be found. It has moved hearts since it was first told to civilized ears. Each succeeding generation reads anew the tender tale, narrated, perhaps, by some new author, who in song or story makes of Smith and the twelve-yearold child who rescued him, the incarnation of his own fancy. It has been told in romance, sung to the sweet notes of the harp, performed on the stage and gravely narrated by the historian, yet wherever heard, however told, it loses nothing; the story itself is the same, and never fails to move the heart of the listener."

"Rest in peace thou who knew So little of peace on earth."

THE DESCENDANTS OF POCAHONTAS.

Pocahontas was a princess, whom it the instrument under God to preserve was a great presumption on the part of Rolfe, who had no royal blood in his veins, to marry. According to the to disappointment and died of a bro-theory of the time this alliance was one of unusual importance, especially Hon. William Wirt Henry, whose for two reasons. First, their marriage Life and Letters of Patrick Henry formed a bond of peace and friendship rank him as one of the foremost writ- between the two races, and second, if ers of our country, has paid the fol- Virginia should descend to Pocahonlowing beautiful tribute to "Our Lady tas, as it might at the death of her father, Powhatan, the government of "Our Lady of the James," Pocahon- the kingdom would be vested in

> Thomas Rolfe, the only son of Poca-Stukley was his

> \*Pocahontas, by John R. Musick, 112 - Funk

commanded Fort James on the Chick- claimants were many. ahominy. He married a young lady of note and fortune in Virginia, and in the state are descended from him.

over to Virginia during the second bulk of his income in an immense traffic with his relatives, the Indians, who flocked as one man to his support. Indian blood.

John Rolfe, the husband of the Princess, was of Norman descent, with William the Conqueror, in England, and a graduate of Oxford. The fragments of his writings that have been preserved attest both his scholarship and benevolence. He was the first American historian and deserves mention as such, though his history description of the colony at Jamestown, and dedicated to the King of England. His fame rests on the fact that he was the first planter of tobacco in Virginia, and the first to demonstrate its value as a vast source of wealth to future planters.

In one of his letters Rolfe declared that his main motive in marrying the Princess was to promote her religious instruction; whatever his motives may have been, his marriage was a success. His wife's descendants are either so numerous or are theld in such high honor as to have given rise to the saying outside the state, "Every family in Virginia is descended from Pocahontas." As a matter of fact the genuine descendants were few but the

From this first alliance of the white of England and became a gentleman and red races sprang the Randolphs, Blands, Blairs and Bollings. The ansome of the most respectable families cestor of the Randolphs went to England with William the Conqueror. Among the conspicuous founders William Randolph, of Turkey Island, of the planter families that came as he was familiarly called, emigrated to the colony in 1675 and from him all half of the seventeenth century, was the Randolphs of Virginia descended. one, a very liberal-minded and ener- John Randolph was a direct descendgetic man, who had married the grand- ant of Pocahontas, being the sixth in daughter of Pocahontas; his son, de-descent from her, through Jane Rolfe, voting himself to planting and trad- her granddaughter, and was even ing on the James river, found the boastful of his relationship with the imperial house of Powhatan, whose grave has been preserved on the bank of the James river, a few miles below From this marriage many existing Richmond. It is curious to note that families in Virginia are directly de- the blood of Powhatan should thus scended, and they are proud of their mingle with that of his old enemies. Dead for many a day and asleep in his grave, the savage old emperor still spoke in the voice of his great descendant, the orator of the Roanoke, who died June 24, 1833.

Peyton Randolph, the first president of congress, and Edmund Randolph. Washington's attorney-general. were also direct descendants, while Thomas Jefferson and Chief Justice was short, being confined to a brief John Marshall were related by marriage. Rev. Hugh Blair, the head of the Blair's and sometimes called "the commissary," because he had been sent to Virginia in that capacity, by the bishop of London, was a direct descendant of Pocahontas. He established William and Mary college, the first in the colony, and his nephew, John Blair, signed the constitution of the United States with Washington and Madison. The Blands and Bollings were prominent as planters, colonial officers and patriots in the war of the revolution.

> Like the vase in which roses Have once been distilled. You may break, you may shatter The vase if you will, But the scent of the roses Yet hangs round it still. -Moore.

WHO SUGGESTED "POCAHONTAS?"

use of the name of "Pocahontas" for membered. Mr. Casady stated in rethis county, were as follows:

Phineas M. Casady, member of the plied with. senate of Iowa, session of 1850-51, from

to have the name of "Pocahontas," The circumstances that led to the the Indian Princess of Virginia, reply that his request would be com-

Senator Howell was an old man at



Tower of the Old Church at Jamestown, Virginia, in which Pocahontas was married in 1613.

senate committee on New Counties, by the other members of the senate. asked John Howell, the senator from He had served as a member of the Jefferson county, if he wished to sug- House of Burgesses in the legislature gest a name for one of the new coun- of Virginia and four years as a mem-ties to be established at that session. ber of the House of Representatives

Polk county, being a member of the that time and was called "Uncle John" He replied that he would be pleased of Iowa in the second and third Gen-

### 124 PIONEER HISTORY OF POCAHONTAS COUNTY, IOWA.

ator for the county of Jefferson, on Iowa, and he stated that "Uncle John the first Monday in August, 1848, and Howell" had requested it, no further was then serving his second term in the senate. When inquiry was made of Senator Casady as to who suggested ady is still a resident of Des Moines, the name of Pocahontas, with the and kindly furnished the information added remark that there seemed no given above.

eral Assemblies. He was elected sen- reason for the use of that name in objections were made. Senator Cas-



### II.

### OF THE INDIANS AT PILOT CREEK-THEIR BATTLE GRAVES, MOUNDS AND RELICS.

"Oh pardon me, thou bleeding piece of earth, That I am meek and gentle with these butchers."



HE territory included in Pocahontas coun-

food.

to be under the undisputed possession tribes. Later, other tribes of Indians from the north and west came to this favored land and found a home, so that at the time the white man came, at the beginning of this century, he found in the northwest part of this state a branch of the noted and cruel Sioux, whose hunting grounds consisted nominally of all that portion of the state that lies west of the Little Sioux river, traversing Dickinson, counties.

THE SIOUX AND WINNEBAGOES.\*

The Sioux were powerful, warlike ty was once the hap- and aggressive; and their frequent enpy hunting ground of croachments upon the territories of the Indians. Large other tribes, became the occasion of game such as the complaints to the United States govdeer, elk and buffalo, found luxuriant ernment that led to the treaty of pasturage upon the open prairie and a August 19, 1825, (see page 50) when a grateful shelter from the wintry blast boundary line between the Sioux, on in the groves of timber skirting the the north and various other tribes, on streams. The latter were alive with the south, was established, extending fish, and the country, twice each year from the mouth of the Upper Iowa -in the spring and again in the fall- river, in the northeast part of the swarmed with almost every kind of state, to the second fork of the Des bird and water-fowl that is good for Moines river, now in Humboldt county, (south of Dakota City) and thence to In 1673, when Marquette and Joliet the lower fork of the Big Sioux river, explored the country along the Missis- near Sioux City. By a reference to sippi river, this section was supposed the map it will be perceived that this line, traced by Clarke and Cass, crossed of the confederated Sac and Fox the south central part of Pocahontas county.

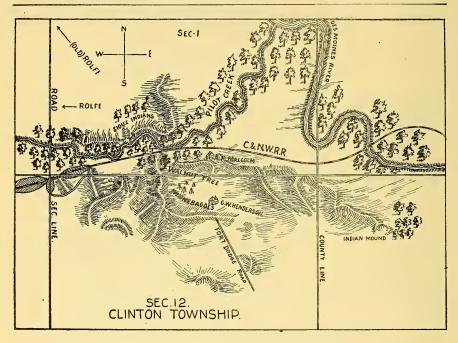
> The meeting at Prairie du Chien, Wisconsin, at which this conciliatory measure was adopted, was a magnificent gathering, there being present about 30,000 braves representing Iowas, Sacs and Foxes, Winnebagoes, Menominees and the Sioux. It is said that before the convention adjourned,

\*The most part under this head is a contribution from the pen of W. C. Ralston, Esq., Clay, Buena Vista, Ida and Monona Pocahontas, to the Rolfe Revellle, March 5, 1896; Bruce & Thornton, proprietors.

of the confederated tribes as against ritory included in this strip of "Neuthe Sioux, was very much opposed to tral Ground." Against the appeals the signing of the agreement.

ing always easily recognized, the goes moved to their new possessions Sioux on the north and the Sacs, and continued to occupy them until and Foxes on the south of it ceded to the year 1846, when they the United States a strip of land north of St. Peter's river, Minnesota, twenty miles in width, on each side of where they were given more territory

"Old Keokuk," who was at the head tion in Wisconsin, were given the terand remonstrances of the squaws and July 12, 1830, the above line not be-old men of their tribe, the Winneba-



INDIAN BATTLE FIELD AT PILOT CREEK.

Showing the camp of the Winnebagoes, Pilot Creek, down which the Sioux came; the walnut tree in which a Sioux scout shot a Winnebago; the home of A. H. Malcolm and the Indian mound at the right.

this line, making a tract forty miles and greater privileges. in width from the Mississippi to the and fish unmolested.

By this arrangement there was left Des Moines, and this was called "Neu- a large tract of country extending tral Ground," on which all the tribes westward from the east fork of the interested were to be allowed to hunt Des Moines to the Little Sioux river, that was unoccupied by any tribe of Two years later, September 15, 1832, Indians, and, by an unwritten law which was just after the conclusion of that was in force between the two the Black Hawk war, the Winnebago tribes, it meant a trial of strength if Indians, in exchange for their reserva- any of the Sioux found any of the

Winnebagoes upon this territory, committed by the Indians while hunt-The Sioux were constantly at war ing, trapping or fishing upon it. For with the Winnebagoes over troubles hunting and fishing, this strip of neugrowing out of this arrangement and tral ground was, perhaps, unequaled because, the latter originally belong- in any other part of the United States. ing to the confederacy of the Sioux, All the wild game, then known to in this section, especially during the in the luxuriant grass. The streams warriors.

the military post at Fort Dodge, (1850bagoes to Minnesota, hostilities practically ceased upon this neutral ground except in the spring of the year, when the Winnebagoes were accustomed to go down the west branch of the Des Moines river, (as the United States Supreme Court has noted in a case recently brought before it) for the purpose of hunting and trapping, and then the Sioux again met them and renewed their old feuds with all the vigor for which they were noted. The usual result of these contests was that the weaker party would be severely defeated, robbed of furs and game, and sustain the loss of many a warrior, whose remains would be found by the soldiers or trappers, who passed the place where the conflict occurred.

The plan of the government in setting apart the strip, forty miles in width, as neutral ground, on which no tribe of Indians should make a permanent residence, but all had the privilege of hunting and fishing, instead of proving a happy means of preventing the disputes and hostilities that were ever occurring, seems to have had the contrary effect. Early writers note, that nearly all of the conflicts arising among the Indians on the soil of Iowa, either occurred on

had now become allied to their rivals sportsmen or Indians, was found withthe Sacs and Foxes, and were also in its borders. Deer, elk and buffalo friendly to the whites. Many trials roamed over the prairies, while pigof strength did old trappers witness eons, quail and chickens found a home winter season, the victory being usu- were alive with fish of all kinds, while ally won by the party having the most on the banks and in the many beautiful lakes that lay within this strip After the government established were found beaver, mink, muskrat and otter in great numbers, as well as 1853) and the removal of the Winne- geese, brants, cranes, ducks, etc. No other territory of the same size was equal to this strip of neutral ground as the native home of game; and in no particular part of it was the game so abundant as in the vicinity of the east and west branches of the Des Moines river.

### THE BATTLE AT PILOT CREEK. \*

"Hark! hear the sound of battle near! The shout, the groan, the charging cheer, The mutual volley, sharp and clear, The shock of steel, the shrick of fear, In one mad chorus blend!"

Nearly a quarter of a century ago, (1853 or 1854) when Fort Dodge was a military post occupied by government troops, and before any white man had settled in the territory included in Pocahontas county, a battle was

\*The account, under this head, of the last Indian fight in Pocahontas county, was written by William D. McEwen, Esq., and appeared first in the Pocahontas Times of date, (Old) Rolfe, May 18, 1876. Mr. McEwen was then editor and proprietor of this 'paper, and obtained his knowledge of the facts stated, during the years of 1858 and 1859, from the late Major William W. Williams, sutler of the fort at Fort Dodge, when the U.S. troops were there and the fight oc-curred. The latter visited the scene of the conflict a few days after its occurrence, and described the location so minutely that the former was enthis territory or grew out of some act abled to locate it without any difficulty.

A. H. Malcolm. Directly west of the Winnebagoes. bridge and a little distance up the until it reached the foot of the bluff ered and then terminated abruptly.

Des Moines river. successful in their expedition, and en- Winnebagoes. friendly terms with the whites, from be made that very night. whom they apprehended no danger, relaxed their usual vigilance.

Winnebagoes were on the Des Moines tack and make for the trading post. man, he ever afterwards cherished for when the Sioux crept up to within

fought between a band of Winneba- him the most intense hatred, and go and Sioux Indians that, for blood-never allowed an opportunity to pass thirsty determination, has seldom without wreaking vengeance on him been surpassed in the unwritten le- and his friends, the Winnebagoes. gends of these savage tribes. It was Ink-pa-du-ta, the bloodthirsty savage, in the spring of the year, and the who with his band massacred the place where this sanguinary conflict white settlers at Spirit Lake, in 1857, occurred was on the south side of Pi- was one of Cou-sta-wa's warriors and lot creek, on section one, Clinton acquired his intense hatred of the township; near the bridge on the old whites from him. He, too, was act-Fort Dodge road and on the farm of ive in urging the attack upon the

They crossed the country from the stream, lies a plateau or piece of table- Sioux river by way of Swan Lake, unland with bluffs on the south. At til they struck the head waters of that time a strip of timber skirted Pilot creek; then, following the course the stream, that increased in density of the stream unobserved, they discovthe location of their foes. Guided, doubtless, by the smoke of the Here there had encamped a band campfires, they stealthily approached of about thirty. Winnebago Indians, within two miles. Here they confrom the vicinity of Mankato, Minn., cealed themselves in what is known who had been engaged in a hunting as "Harvey's Grove," and sent out and trapping expedition along the two of their warriors to ascertain They had been the number and exact position of the The night was well camped at this place to feast and pre-advanced before their scouts returned. pare their furs for market. They Their report must have been favorable were within one day's journey of the as a satisfactory grunt from Cou-statrading post at Fort Dodge, were on wa announced that the attack would

The water in the creek was high, and believing that their enemies, the and Cou-sta-wa, with savage sagacity, Sioux, were not in the vicinity, they divided his warriors; six of them led by Ink-pa-du-ta, crossed Pilot creek Eighteen Sioux warriors, under their and approached the foe from the chief, Cou-sta-wa, or Big Tree, had north, while he with the other warbeen hunting on the Little Sioux riv-riors, descended on the south side to er, in the neighborhood of where now cut off their retreat. He evidently stands the flourishing town of Sioux thought that the Winnebagoes, taken Rapids, and learning that a band of by surprise, would flee at the first atriver, determined to cross the coun- In this he was correct, but the result try, take them by surprise and adorn was not as he had anticipated. The their belts with the scalps of their ground had been well examined and foes. The chief of the band, as his the attack well planned. The moon, name indicates, was a large, powerful, though far in the wane, shone brightwarrior, and had been the leader in ly, pointing out to the wary Sioux the many a bloody fight. Having been exact position of the sleeping Winneonce wounded by the bullet of a white bagoes. The night was far advanced

thirty yards of their sleeping foes, an inch in thickness; that the shank Here they paused, awaiting the signal of their chief. Just at this moment one of the Winnebago warriors arose and quickly gave the alarm to his tribe. The Sioux, finding themselves discovered, commenced firing. The Winnebagoes, taken by surprise, and not knowing the number of their foes, thought only of safety, and commenced retreating along the edge of the bluff. Here they were met by Cou-sta-wa and his warriors. Finding their retreat cut off, they commenced fighting with the desperation of despair. Cou-sta-wa, seeing the confusion, and knowing full well that onehalf of the Winnebagoes must have fallen at the first fire, rushed with his warriors upon those that remained. It now became a hand to hand fight.

"Long, keen and dubious was the strife, While all the warriors bied."

At length one, two, three of the brayest of the Winnebago warriors met their death at the hands of Cousta-wa, when a shot from one of the wounded Winnebagoes laid him low. With a terrific and hideous yell the Sioux warrior fell to rise no more. The Sioux seeing their chief fall, now commenced falling back, carrying their dead, for the Sioux will die sooner than leave any of their dead in the hands of their foes. Ten of the Winnebagoes were killed or died of their wounds, while only four of them escaped without being wounded.

How many of the Sioux were killed was never known. But four Indian graves were found by some of the early settlers in 1857, on the bank of Pilot creek, covered with bark and in a good state of preservation; these were no doubt the resting places of the warriors killed in this fight. The skeletons of three more were discovered by W. S. Fegles, when trapping at Swan Lake in the winter of 1858. He informed the writer that the skull bone of one was very large and nearly

bones were three inches longer than his and all that remained of the skeleton showed that it had belonged to an Indian of colossal stature. May we not, therefore, justly conclude that it was none other than the skeleton of the Sioux chief, Cou-sta-wa?

INDIANS ALONG THE DES MOINES RIVER.

"Among red men, the surest way To honor, is the foe to slay: Him they call supremely great, Who can most martial deeds relate."

After the battle on Pilot creek the Indians who were engaged in it again returned to their reservations, the Sioux going to Dakota and the Winnebagoes to Minnesota. In the years that followed, until April, 1880, bands of the Winnebagoes would occasionally return along the west branch of the Des Moines river as far south as the mouth of Pilot creek.

"In the month of November, 1879,\* about forty Pottawattamie Indians camped along the Des Moines river, near the northeast part of the county, and while engaged in hunting and trapping, investigated many of the larders in that neighborhood. the poor Indian' is a good investigator of the pantry of the white man."

Again in April, 1880, about fifty Winnebagoes and Pottawattamies temporarily encamped near the bridge over the Des Moines river, a short distance above the mouth of Pilot creek and near Old Rolfe, that until four years previous had been the county seat. J. J. Bruce, the correspondent of the Pocahontas Times,† wrote as follows in regard to them:

"Our Winnebago and Pottawattamie Indians have moved down the river. Henry M. Rice, the chief of the band, is a very intelligent fellow. Several of the men are intelligent, use good language and dress in civilized \*J. J. Bruce in Pocahontas Times, Dec. 11,

†Times, of April 15 and 22, 1880.

style. ber of them have white man's blood goes, on the south side of Pilot creek. in their veins.

ground in 1854, and points out the Pilot creek. battlefield between the Sioux and home of his father, A. H. Malcolm, some of the trees in those early days, see them hunting and trapping. pointing out the tree where some warrior lost his scalp.

ered by some as a canard; but in this walnut tree. case it seems that 'truth is stranger than fiction."

On this occasion the Winnebago warrior and some of his friends visited at the Des Moines river bridge, met W. D. McEwen, Robert Struthers and others to whom he related many incidents of the battle. Mr. McEwen was at this time treasurer of the county, and, though he appointed a day for him to go with the old Indian to view the battlefield and get his description of the conflict as he remembered it, unexpected business matters prevented him from keeping the engagement. Among other things the old Indian related on this occasion, was that he believed he could yet point out the spot along the river a short distance from the outlet of Pilot creek, where the Winnebagoes had buried three of their fallen braves.

At this time, Ora P. Malcolm, then in his teens, but now deputy treasurer of the county, accompanied by his younger brother Fred Malcolm and his cousin Ralph Horton, went to their camp along the west branch of Des Moines river. They met about fifty Indians, old and young, and found they had been there about a week. They met the old Winnebago warrior, who told them that many years before he had participated in ern railway had not yet passed through

We should judge that a num- the battle of the Sioux and Winneba-

A few days later this old warrior, They have in their number a Win- accompanied by several other Indians, nebago warrior who was over this came down the river and passed up As they passed the Winnebagoes on Pilot creek, in 1854, Ora and the two other boys being toand gives the scenes enacted under gether again, followed the Indians to When they had proceeded a short distance, the old warrior took them to a The battle referred to above, was place on the south side of the creek described by W. D. McEwen in 1876, and about thirty rods west of his in an article that appeared in The father's residence, where he showed Pocahontas Times and it was consid- them the stump of a large black "Into the top of this tree," he said, "a Winnebago had climbed to take a survey of the country and learn if any enemies were While he was up in the tree a near. Sioux scout, under cover of the smaller timber, stealthily drew near and shot him."

This old warrior had a desire to take a last look at the place where his father and one brother were killed, before he should be numbered with the silent dead, and to show to those who came after him the place where the last trial of strength occurred between his people and their ancient enemies, the Sioux.

At the time of this visit in 1880, which was more than twenty-five years after the battle, the large stump of the old walnut tree was easily recognized, and around it there had grown several shoots that were already large enough to bear nuts. When the attention of the old settlers was directed to it, it was found that this particular tree had been felled by Orlando, son of David Slosson, in the winter of 1858-9, that it had been drawn to the sawmill erected near Old Rolfe by John M. Stockdale and had there been sawed into building material, by W. H. Hait.

In 1880, the Chicago and Northwest-

this section and when it came, a couple of years later, it crossed the place among the Sioux, who came from the where this black walnut stood and also the original site of Mr. Malcolm's residence.

The battle between the Sioux and Winnebagoes at Pilot creek, was the last contest that occurred between the Indians on the soil of Iowa. It has been suggested that at some time in the near future the romantic spot where this battle was fought should be marked with some appropriate monument, that future generations exact place might know the where the Winnebagoes, friends of the whites, resisted the last cruel onset of the Sioux, under their chiefs Cou-stawa (Big Tree) and Ink-pa-du-ta.

### INDIAN GRAVES AND RELICS.

Two of the Indian graves of which mention has already been made, were found by Orlando, son of David Slosson, in 1857, on the bank of Pilot dead under the ground. creek, near the present site of Rolfe. Other graves were found about the same time on the plateau of the southwest quarter of section one, Clinton township, now included in the Iowas, were the van-guard of the the farm of John E. Schnug. In 1858, tons at Swan Lake, the largest of which was believed to be that of the Sioux chief, Cou-sta-wa, or Big Tree. In 1860, when the workmen were house at Old Rolfe, on the southwest township, they uncovered the remains east and west respectively. placed in a box and reinterred in the body faced the west, while the head resting place of several of the primi- and a pipe were usually deposited in time that those who were buried at added. this place were Winnebago warriors.

Very few resting places of the dead northwest and at least for two centuries occupied this section of country, have been found by the white man; a circumstance, no doubt due to the peculiar method practiced by them in disposing of their dead. The Sioux, instead of burying the bodies of the dead in the ground, often placed them upon elevated scaffolds or rude platforms made of timber. The dead were thus elevated to prevent their bodies from being devoured by wolves and other rapacious animals. They were not so scrupulous in regard to depredations that might be committed upon them by birds of

The mode of burial in vogue among the tribes of the Algonquin family, to which the Pottawattamies and Musquakies (Sac and Fox) belonged, was quite different. They buried their Stones and even logs were often placed in heaps over the graves of their dead to give them better protection.

The Winnebagoes, parent stock of Sioux, when they began to occupy the W. S. Fegles found three skele-valley of the Mississippi. The Winnebagoes originally made use of the scaffold, but later adopted interment, except when the ground was frozen. The place selected for interment was making the excavation for the court usually the summit of a knoll, and the grave was arranged so that the head quarter of section 26, Des Moines and feet of the body would extend of ten bodies, ranging in size from a times they buried the dead in a sitchild to a giant. Their bones were ting posture, and in this case, the southwest corner of the foundation, and chest would extend above the The first court house of Pocahontas natural surface of the ground. If the county was thus erected over the last one buried was a male, some tobacco tive red men of the forests and plains, the grave; and if he was a warrior a and it was the general belief at the war-club or some other weapon was

John B. Jolliffe, a resident of section

ful Indian bracelets. carved work represented, in raised county line. form, many of the animals with which the Indians were familiar, such as the about twenty feet in diameter at the interesting relics were lost at the time of the prairie fire that consumed his buildings, in the latter part of Sep. of the Des Moines river northward for tember, 1873.

About the year 1876, A. H. Malcolm, while removing some boulders from the knoll south of his residence on section one, Clinton township, found underneath a large rock, nearly a peck of flinty specimens that were supposed to be Indian arrow heads in an unfinished condition. They were oblong pieces of flint rock, roughly chipped to a blunt point at one end while the other was rounded. They were three to four inches long, half an inch thick and about one and one-half inches Some, who examined these relics, expressed the opinion they were not arrow heads, but some blades made by those who lived in the "stone age" and knew nothing of the working of metals. Since no tools or implements, except those of stone, have been found among their relics, the mound-builders are supposed to have lived in that age.

### INDIAN MOUNDS.

"The Indian passed away, and lo! What is left behind to show That he drew Ulysses' bow? He often earned immortal fame; But what perpetuates his name? On the knolls of prairies green Only the Indian mound is seen."

two, Powhatan township, about the the summit of a high bluff on the year 1866, among some rocks on a west bank of the west branch of the little knoll a short distance west of Des Moines river that is skirted on his home, found a pair of very beautithe east with a body of tall, heavy They were timber. It is located on the farm of made of a material that was of a slate O. F. Avery, one-half mile east of the color and as hard as flint. They were homes of A. H. Malcolm and Senator very artistically carved on the outside Geo. W. Henderson. It is in Humand both were exactly alike. The boldt county, a few steps from the

This mound was circular in form, fox, coyote, beaver and otter. These base and five feet high. It rests on a natural elevation sloping gradually to a summit, that overlooks the valley many miles.

In 1883, Ora P. Malcolm, his brother Fred and their cousin Geo. W. Horton, having a desire to know what was in the mound, made an excavation by digging down through the center of the top of it. They found the skeletons of three human bodies which they supposed to be the remains of Indians. They expected to find some relics of value, but in this they were disappointed. When their curiosity had been sufficiently satisfied they returned the bones that had been exhumed, and, covering them, left them as they had found them.

The old court house site, where ten bodies were found, is one of the highest knolls in Des Moines township; and it was the removal of three mounds upon its summit that revealed the bodies buried there.

For the account of other mounds and their story the reader is referred to page 16.

### INDIANS ALONG THE LIZARD.

In the latter part of December, 1855, when M. T. Collins, of Lizard township, his mother and sister were living in their log cabin on section 18, Jackson township, which was just On the right hand of the cut illus- across the line in Webster county, trating the battle field at Pilot creek, three Indians armed with guns, surpage 126, there will be seen an Indian prised and frightened them by commound. This mound is situated on ing to their door and begging for

fire, smoked their pipes and after a little while returned to their camp, along Lizard creek, south of the Lizard Catholic church, There were about thirteen men who were accompanied by their wives and children, in this band, and they had several tents. They remained at this place, hunting and trapping, until about the first of April following, when they moved northward to Mulholland's grove. About the first of May, (1856) they disappeared as quietly as they had come.

These were a band of Sioux Indians that had come from the southwest, the vicinity, of Twin Lakes. Ti-tonka To-ma-to, a large old man, was their chief and he had a son who was also very tall and active. They had a number of ponies and said that their favorite hunting ground was along the Lizard and especially at Lizard

During the period of their encampment at this place one or more of the squaws would come every day to the home of Mr. Collins and beg for something to eat. [ On one occasion when Mr. Collins was cutting wood, a young Indian girl came to his home and, beckoning for the axe by motions of her hands, he handed it to her and she showed him how she could cut wood, using the axe in a left-handed way.

### THE SIOUX.

consisted of the Sissetons, whose acknowledged tion troops at Fort Dodge. chief was Red Thunder, Yanktons and half-breeds from Missouri. Pre-rived, August 23, 1850, the Sioux rea

food. They came to their home about vious to the establishment of the fort four o'clock in the afternoon and were at Fort Dodge, they had several vilthe first Indians they had ever seen. lages and encampments along the Des When Mrs. Collins gave them some Moines river in the vicinity of Fort food they seemed to be very content- Dodge and along Lizard creek. They ed and happy. They sat down by the were great thieves, constantly roving about in squads, watching trappers who ventured along the Des Moines which they had pitched in the grove river and emigrants who attempted to settle in that district.

In 1848, when Mr. Marsh, a government surveyor of Dubuque, was running the correction line from the Mississippi to the Missouri rivers, he progressed in his work without molestation, until he and his company crossed the Des Moines in what is now Webster county. On the west bank of the river he was met by a party of Sioux, under the lead of a chief named Si-dom-i-na-do-ta, who told him that this section of country still belonged to them, that he should proceed no further, and ordered him to "puc-a-chee" that is "be off" or "clear out." After they left him, Mr. Marsh and his party concluded to proceed with their work. But before they had advanced a mile from the river, they were surrounded at a point near the head of a large ravine (south of the south-line of section 30, township 89, range 28), about 3 miles southwest of Ft. Dodge, by a large force of Indians, who robbed them of everything. They took their horses, destroyed their wagons and surveying instruments, pulled up their stakes, leveled their mounds and forced them to return to the east side of the river to find their way home as best they It was this outrage and simicould. lar ones, committed by the Sioux Indians on families who had ventured The tribes of the Sioux nation, up the Des Moines and located claims that, occupied Pocahontas county north of the Raccoon fork, in the fall just previous to the time of its settle- of 1849, that induced the government bands, of to establish the military post and sta-

When the government troops ar-

treated westward from the vicinity of supposed to be journeying either to a its vicinity, while they remained there. river. Ridgely, Minnesota, they again be- John Dooley." came impudent and annoying, and Major William Williams, who remained at the fort, was empowered to keep them in check. It will be remembered that the terrible tragedies enacted at Spirit Lake in 1857, and at New Ulm and Mankato in 1862, were perpetrated by bands of the Sioux.

### INDIANS IN LINCOLN TOWNSHIP.

About the month of August, 1873, a band of about sixty Indians crossed Lincoln townships; of whom the fol-neighbors. When, however, ship:

that extended from the ponies to the which the chief, addressing the poles, were also enjoying the same and gesticulation, exclaimed: "Good kind of transportation: They were s-q-u-a-w! Good s-q-u-a-w!"

the Des Moines river, and committed reservation or to one of their favorite no further outrages on the whites in camping grounds along the Des Moines While passing through Lin-When, in July, 1853, the troops at coln township they called for provis-Fort Dodge were transferred to Fort ions at the homes of Mr. Saylor and

### INDIANS IN BELLVILLE TOWNSHIP.

Mrs. Wm. Brownlee, of Pomeroy, thinks she never, in all her life, received any compliment that gave her more real pleasure than one bestowed by a band of Indians that camped on their farm, on section 18, Beliville township, in the spring of the year during the seventies, to hunt and trap among the ponds in that vicinity. Knowing that the Indians were treachthis county, traveling eastward along erous and blood-thirsty when on the the line that runs one mile north of war-path, she did not appreciate the the south line of Dover, Grant and idea of having them for her nearest lowing account has been furnished by pitched their tents so near them, in C. M. Saylor, of the last named town- the interest of peace and good-will, she and her husband decided to give "They made this journey in true In-them about all they might call for. dian style, which was a single file that When the squaws, true to their cusextended nearly a mile in length, sev-tom, called, day after day, for "more eral rods usually intervening between food," she gave them all the available each member of the procession. About bread and butter in the home, and frea dozen members of the band were quently, by special request, some roosmounted on ponies that were heavily ters, indulging the hope it would be loaded with luggage. Their tepee or their last call. The Indians must tent poles, tied loosely together at one have enjoyed her hospitality more end with a thong, were hung over the than ordinary, for when the two backs of the ponies in front of the weeks' hunt was ended, the chief of riders, while their loose ends were the band came with the squaws when left to drag on the ground. On these they made their last call, for the purpoles, at a short distance from the pose of expressing their appreciation rear of the pony, cross-pieces were of the favors received and bid farewell fastened that served as a framework to their benefactors. On this occafor carrying their tenting, cooking sion, when they were ready to depart, utensils, trapping outfit and other Mr. and Mrs. Brownlee standing near necessary equipage. Some of their each other in the front yard of their papooses or babies, had been put in home, the Indians thanked them baskets and strapped on these poles heartily and bowed graciously, after ground. One or two of the squaws, Brownlee but pointing to his wife, sitting on the bundles that rested on with all his native earnestness

### THE POTTAWATTAMIES.

to frequent the Lizard in the hunt- 1836, the latter were settled by the "Johnnie Green tribe," or "Prairie county. By the treaty of June 5, the Iowa river. able in disposition and always carried quakie (Sac and Fox) tribe. of their number, usually the squaws, house to house in the settlement begging clothing and provisions. They usually numbered from twenty-five to fifty persons, including men, women and children, and they roamed considerably throughout the north part of the state, traveling some on foot, others on horseback, and camping at different places as they proceeded.

The Collins' grove, on section 13, Lizard township, was one of their favorite places of encampment, and they occupied it every one or two years during the sixties and seventies and for the last time, about the year 1883. The old chief, Johnnie Green, was about seventy years of age when he made his last visits, about the years 1873 and 1874. The name of the young chief who succeeded him, is not remembered.

Two other favorite stopping places for the Indians in those days were the large grove on the east side of Lizard lake, in Lake township, and a grove south of Dakota City, near the forks of the Des Moines river, where for many years there lived an early settler stranger. The ponies were gentle by the name of Miller. The groves of creatures, docile as dogs and had timber at Sac City, at this early peri-beautiful feet. od were also visited by bands of In- their own saddles and always of rawdians who came from southern Ne- hide. braska.

The Winnebagoes and Pottawatta-A band of Pottawattamies, under mies were originally from the districts their old chief, Johnnie Green, used west and south of Lake Michigan. In ing and trapping season for many government in southwestern Iowa in-They were known as the cluding what is now Pottawattamie band of Pottawattamies." Their res- 1846, they sold all their lands in Iowa, ervation was in eastern Kansas, but and in 1847 and '48 were removed to during the sixties they became ulti- Kansas Territory, where most of them mately associated with the Mus- remained, but some returned to Iowa, quakies (Sacs and Foxes), and locat- and during the sixties occupied the ed near them in the country along country in the vicinity of Iowa and They were peace- Tama counties, together with the Muswith them a written passport. A few present time there are 390 Musquakies and about forty Pottawattamies. would make it a practice to go from Winnebagoes and others occupying their own lands in Tama county.

> The Pottawattamies and Winnebagoes never molested the early settlers; but when some venturesome trader, in exchange for their furs, gave them whiskey, under its influence they, as well as pale faces in a similar condition, sometimes became quarrelsome.

"On his head his eagle feathers. Round his waist his belt of wampum, In his hand his bow of ash-wood, Strung with sinews of the reindeer."

The roving bands of Indians who visited these sections for many years during the period of early settlement, usually spent about three months of the fall or spring of the year catching mink and muskrats for their flesh and fur. They could trap and spear muskrats to better advantage than the whites because, while the latter utilized only the fur, the Indians ate the flesh of the rat and mink with great zest, and furs cured by them brought a better price in the market.

The Indian, upon his small footed pony, was an interesting object to the The Indians made They dressed comfortably, many showing a decided preference Mothers, while on the journey, would dian trappers, whilst they were oddly strap their babies to a board, and dressed, were ordinarily a lot of then carry them in whatever way was hearty, healthy and fine looking people. convenient, sometimes by

for the red blanket for underwear, women composing these bands of In-

They were remnants of the once swinging them over their shoulder, powerful tribes that were in posses-The men, when trading, endeavored sion of all the country from the Lakes to make "shrewd bargains;" before to the Missouri, at the end of the war leaving town, they usually spent all of independence. They presented, they received for furs, and the to- however, but a faint resemblance of bacco and whiskey dealer was pretty their former greatness and renown, or sure to get his share. The men and of their warlike and noble bearing.



### III.

### THE SURVEY OF POCAHONTAS COUNTY.

"What lovely prospect meets the view: The rolling prairies, like a sea, In vast and wild sublimity, There lie with an unbroken sod, Untilled but by the hand of God: He sows the seeds of grass and flowers, He moistens them with vernal showers!" -Leonard Brown.

### THE GOVERNMENT SURVEY.



The first party located the boundary stakes used to stand, with a rock lines of the several townships, which nearly buried. are six miles square, by driving into more durable and many of them may the ground an oak stake and raising a now be seen, even upon the grades, in mound of earth around it, at the cor- in the center of highways where the ners of each township and of each sec- roads cross each other. tion on these boundary lines. section.

corners of the sections. Prairie fires 14, 1853.

IE government sur- destroyed many of them, while others vev of Pocahontas have decayed with the lapse of time county was made dur- or have been covered by the grades on ing the years of 1853, the highways. The county surveyor 1854 and 1855, by two of Pocahontas county, (H. W Bissell) parties of surveyors about the year 1890, began to mark who followed each other in their work. the corners of the sections where the These markers are

The first survey, or that of the townearth for the mound around the stake ship lines, was made by John W. Ellis, would usually be taken at a distance deputy surveyor, who was assisted in of eight links east or south from the the survey of the three south tiers of corner stake, and the exact location of townships, numbers 90, 91 and 92, by the pit thus formed would be noted in John Corrick and James A. Holstein, the field notes of the surveyor. The chainmen; Charles Bell, axeman or second party surveyed the townships marker, and W. M. Helms, flagman; severally, dividing them into sections, and in the north tier of townships, each one mile square, and driving a number 93 by Charles Bell and Charles stake at the distance of every half Moran, chainmen; Barnet Dodd, axemile as well as at the corners of each man, and William Dodd, flagman. These men surveyed the boundaries of Comparatively few, if any of the the several townships of Pocahontas original stakes are now found at the county, under a contract of date June

# **EXHIBIT**

Of the Government Survey of Pocahontas County, showing Number and Range of Townships, alphabetically arranged.

TOWNSHIP.					MOUND	MOUND MAKERS.
	1					
Name.	T E	Date of Survey.	Deputy Surveyor.	Chainmen.	Axeman.	Flagman.
Bellville	90 32 185	H, July 25-Aug. 1.		James Ridgeway.	Andrew J. Sears.	Cyrus Clay Carpenter.
Cedar	90 34 185	90 34 1855, June 25-July 3. Joshua T. Nowlin.		lson.	T. Vanbuskirk.	James W. Miller, (Compassman.)
Center 92 32 1854, Oct. 9-15.	92 32 185	4, Oct. 9-15.	Robt, O. C. Anderson.	A. L. Palmer.	Wm. H. Brakey.	Mason Crouch.
Clinton	92 31 185	4, Oct. 30-Nov. 7.	92 31 1854, Oct. 30-Nov. 7. Robt, O C. Anderson.	A. L. Palmer. C. C. Stevens.	Wm. H Brakey.	Mason Crouch.
Colfax	90 33 185	4, Sept. 12-22.	Robt. O. C. Anderson.	A. L. Palmer. C. C. Stevens.	Wm. H. Brakey.	Mason Crouch.
Des Moines	02 21	02 31 1951 Oct 0	Andrew Leach.	Jeremiah Huff. Joseph Richey.	John W. Deeman.	Wm. R. Wooldridge.
	00 00	3, OCE. 9	Francis Bell.	Josiah Scott. Alex. McIntyre,	Alfred Bebe.	Haryey Norris.
Dover.	91 34 185	91 34 1855, July 5-11.	Joshua T. Nowlin.	Alex, Willson. Wm. P. Hall.	Thornton Vanbuskirk.	James W. Miller, (Compassman.)
Grant 91 33 1854, Sopt. 23-29	91 33 185	H, Sept. 23-29.	Robt. O. C. Anderson.	A. L. Palmer. C. C. Stevens.	Wm. H. Brakey.	Mason Crouch.
Lake	91 31 185	91 31 1854, Oct. 23-30.	Robt. O. C. Anderson.	A. L. Palmer. C. C. Stevens.	Wm. H. Brakey.	Mason Crouch.
Lincoln	91 32 185	91 32 1854, Oct. 16-21.	Robt. O. C. Anderson.	A. L. Palmer. C. C. Stevens.	Wm. H. Brakey.	Mason Crouch.
Lizard	90 31 185	90 31 1854, Aug. 3-10.	Geo. Berry.	James Ridgeway. Asa F. Sellers.	Andrew J. Sears.	Cyrus Clay Carpenter.
Marsball	92 34 185	92 34 1855, Oct. 16-21.	wm. W. Smith.	Isaac A. Corv. Wm. S. Wesley.	Edward M. Stiffey.	Isaac Welch.
Powhatan 93 32 1854, Oct. 1-6.	93 32 185	4, Oct. 1-6.	Jesse T. Janett.	Ephraim Hartman. Elisha Lackey.	Not given.	Not given.
Sherman	92 33 185	92 33 1851, Oct. 2-7.	Robt. O. C. Anderson.	A. L. Palmer. C. C. Stevens.	Wm. H. Brakey.	Mason Crouch.
Swan Lake	93 34 185	93 34 1855, Sept. 16-29.	Adam Sherrill.	A. P. Hull. Charles C. Perry.	Daniel Dicus.	Isaac Welsh.
Washington	93 33 185	93 33 1854, Oct. 7-12.	Jesse T. Janett.	Ephraim Hartman.	Not given.	Not given.

The variation of the compass, in Poing from 11° 15′ to 11° 35′ east on the distances and bearings are measured lines.

made by deputy surveyors, under the appointment and direction of Warner was at Dubuque, Iowa.

their work, on the main features or west of Dubuque. and no doubt throw some light on the ships east and west; and from it the section of the country.

They classed a great part of the land as "second rate, full of irreclaimable marshes, although producing grass, canes, rushes, flags, brakes and nea vines, abundantly," They were careful to note the fact there was no timber in many of the townships, and the presence of timber must have been regarded as an absolute necessity in order to render these lands inhabitable; for the surveyor of Des Moines township, which had more timber than perhaps any other township in the county, writes: "There is sufficient timber in this township to warrant but a few settlers, at least for some time to come."

### PLAN OF THE GOVERNMENT SURVEY.

The method of the United States government in the survey of these they are measured.

The same is true of the parallels of cahontas county at the time of this latitude, from which distances are government survey, was noted as rang- measured north and south. Since all north and south lines, and 10° 20′ to from two lines that are at right angles 11° 15′ east on the south and west to each other, the one a true meridian of longitude and the other a true par-These government surveys were allel of latitude, the system is rectangular.

·All lands in Iowa by townships are Lewis, surveyor general of Iowa and numbered eastward and westward Wisconsin, whose office at that time from the 5th principal meridian which, extending due north from the mouth The following general notes made of the Arkansas river, passes through by the surveyors at the conclusion of the eastern part of Iowa twelve miles This meridian, characteristics of the townships sur- which is the 14th west from Washveyed, are already of historic interest ington, gives the range of the townearly impressions that affected, to east tier of townships of Pocahontas some extent, the settlement of this county is numbered 31, the second 32, the third 33 and the west tier 34.

> All the townships in Iowa are numbered northward from a base line, a true parallel that, extending due east and west, crosses the 5th principal meridian forty-eight miles north of the mouth of the Arkansas river. This is the 35th parallel of north latitude and forms the north boundary line of Georgia, Alabama and Mississippi. Counting from this base line, the south tier of townships of Pocahontas county is numbered 90, the second 91, the third 92 and the north tier 93.

The boundary lines on the north and south sides of a township are called township lines, and the rows or tiers of townships running east and west on these lines, which are parallel to the base line, are called townships. The boundary lines on the east and west western lands is an admirable one and sides of a township are called range has for its basis the invariable direc-lines, and the tiers of townships runtion of the true meridians of longi- ning north and south along these lines, tude. All bearings taken from these which are parallel to the principal memeridians are called true, to distin- ridian, are called ranges. The boundguish them from magnetic bearings; any lines of a section are called section and in their direction they are as in-lines, and all interior corners, necesvariable as is the meridian from which sary for the division of a section, were left by the government surveyors to:

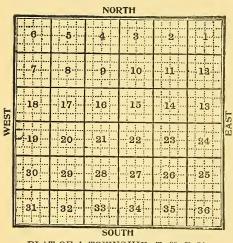
be located by local or county surveyors.

43d parallels and in this latitude the convergence is about forty-three feet to each township. This convergence is remedied by an occasional correction line, one of which may be seen upon the map of Iowa extending east and west six miles south of Pocahontas county. The correction is made in the tier of townships south of this While the distances on the north side of this line are all six miles, those on the south side of it are all less than six miles by the amount of the convergence for the distance the township lines have been run. All the other townships are intended to be six miles square.

Each township is divided by parallel lines into thirty-six equal parts, Since the meridians of longitude called sections. Each section is one converge toward each other as we pass mile square and contains 640 acres. northward from the equator, it fol- The section is divided into quarterlows that the north line of a town- sections of 160 acres each and the latship would naturally be a little short- ter into quarters of forty acres each. er than the south line. Pocahontas The sections are always numbered county is located between the 42d and from 1 to 36 in regular order, commencing with the one at the northeast corner of the township and proceeding west, then east and so on, until the southeast corner is reached, as may be seen in the accompanying plat.

> It is of interest to note that the government survey of public lands in Iowa was begun in the autumn of 1836, by A. Bent & Son, from Michigan, who received their commission as U. S. deputies, from the office of the Surveyor General at Cincinnati, Ohio. Their first contract was for the survey of Scott county, of which Davenport is the county seat, and it was completed in the spring of 1837.

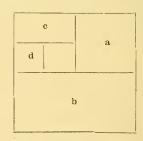
The survey of lands in northwest



PLAT OF A TOWNSHIP-T. 90, R. 34,

The numbers "T. 90, R. 34" are those of Cedar township and show that it is township number 90 and range 34 west from the 5th principal meridian.

The different divisions of a Section are described as follows:



a-N. E. 1/4-Northeast Quarter.

Section 16 of every township in Iowa was set apart by the government for the support of the public schools; and they are called "school lands."

b-S. 1/2-South Half.

c-N. ½ N. W. ¼-North Half of the North-West Quarter.

d-S. W. 1/4 N. W. 1/4-South-west Quarter of the North-West Quarter.

Iowa, including all the territory north the Sioux, when they crossed the Des of Des Moines, was not commenced Moines river in Webster county. This until the fall of 1848, when Marsh and work was resumed at a later date and his company undertook to run the when, in the settlement of Woodbury correction line from the Mississippi, county, a town was located on this near Dubuque, to the Missouri, near line, it was very significantly named Sioux City, and were driven back by Correctionville.

### TV.

### TOPOGRAPHY OF THE COUNTY.

"Cease all this parlance about hills and dales."—Duo.

LOCATION AND SURFACE FEATURES. \*



OCAHONTAS Coun-

This summit is near Marathon, Bue- and Humboldt counties. a greater extent, by Lizard creek and from Spirit Lake to Keokuk. its branches than by any other stream. The remaining surface is drained by Cedar creek, an upper branch of the Raccoon river, that has its source in Rush lake, a few miles northwest of Laurens, and by the West Branch of the Des Moines river and its tributaries. Beaver and Pilot creeks.

Pocahontas, like a large proportion of the counties in Iowa, is perfectly square in outline and contains sixteen congressional townships, making it twenty-four miles across from north to south and from east to west. It contains an area of 576 square miles, or 368,640 acres. Technically described it embraces townships 90, 91, 92 and 93 north, of ranges 31, 32, 33 and 34, west of the 5th principal meridian.

Pocahontas county is situated in ty lies just east of the northwest part of the state, being the summit of the two tiers of counties south of its ridge or watershed— northern and three tiers east of its extending from Dick- western boundary. It is bounded on inson to Audubon the north by Palo Alto county, on the counties—that divides the waters of west by Buena Vista, on the south by the Mississippi and Missouri rivers. Calhoun and on the east by Webster Its elevana Vista county, and some of the tion is about 1400 feet above the level streams of Buena Vista find their way of the sea and its surface has a gradto the Missouri, while others empty ual slope to the south and east. The into the Father of Waters. The drain- average slope of the county is a trifle age of Pocahontas county is wholly less than four feet to the mile, which into the Mississippi and is effected, to is about the same as that of the state

> The only bodies of natural timber in the county are, a strip ranging from a quarter to a half mile in width along the Des Moines river in the northeast, a similar skirting, though less in size, on the east side of Lizard lake and along Lizard creek in the southeast, at Swan Lake in the northwest, a little along Cedar creek where it crosses the line into Calhoun, and at Sunk Grove, an island of some eighty acres in a slough in the northwest part of Cedar township. During the sixties, this island was covered with a heavy growth of fine, large timber consisting of maple, elm, basswood,

> \*The greater part under this head was written by L. C. Thornton, county surveyor, 1884-5 and 1888-9, for the Reveille, Jan. 30, 1896.

of the beautiful grove that existed the waters. here previous to the year 1870. At early pioneer.

southwest by Cedar creek. an elevated plain with a gentle slope creek. to the southeast and having no waste and creeks—and these are essential to its occupancy and fertility.

of a blooming prairie. Since that farmer's list of apparatus necessary

cottonwood, oak, hackberry, box-elder no convulsions have marred the conand other woods. The early settlers tour of its surface. In washing out traveled many miles to levy tribute on their channels the streams have somethis unusual supply of good timber, what cut the crust, but on the whole and it was not long before unsightly it is safe to say the general lay of the stumps were all that were left to tell land is the same as when it rose above

In the northwest part of the county the present time there is a fine body are Swan and Muskrat lakes, shallow of young timber, or second growth, at bodies of water with mud bottoms. this place. These bodies of natural The main body of the former, extendtimber, affording material for fuel ing north and south, is about a mile and the construction of buildings, as long and a half-mile wide. It has a well as a grateful protection to stock small, curved arm on the west, reboth in summer and winter, became sembling the neck and bill of a swan the most attractive places to the and from this circumstance received its name. Muskrat lake which is Pocahontas county is almost an un- about the same size, but extending interrupted prairie that extends also east and west is but a few rods east of into all the adjoining counties. Its the former and is connected with it beautiful prairie surface is gently un- by a creek, a link of the Cedar. Clear dulating and is slightly broken only in lake, in the west central part of the the northeast by the Des Moines river, county, lying partly in Dover and in the southeast by Lizard and in the partly in Marshall townships, is shaped All of like the letter L, the stem pointing Northwestern Iowa is noted for its west and the arm north. It is probbeauty, and fertility, and in these re- ably two miles long by half a mile spects Pocahontas is unsurpassed by wide and is drained by the little or any of the neighboring counties. Oth- west branch of the Cedar. During er parts of this northwestern section the long continued drought of 1894, are more rolling and their elevated these lakes, except a part of the last, portions, in the earlier days, were became dry and, during the season of prized because they were tillable, but 1895, good crops of grain were prothese elevated and valuable portions duced in the beds of all of them. Lizwere interspersed with unappreciated and lake in Lake township, extending and impassable sloughs and other northeast and southwest, is about waste places. In Pocahontas county one mile long by half a mile wide and these extremes are not found. The has an outlet through which it empentire surface of the county is that of ties into the north branch of Lizard

In the days of early settlement land except the channels of the river there were in this county sloughs without number and some of the principal ones were named Devil's As its elevation is so high it is alto- Island, Purgatory, Muskrat and Sixgether probable the surface of Poca- teen-Mile Slough. These were great hontas county has not changed mate-places for muskrats and ducks, and rially since its transition from the gave rise to the familiar proverbs that bottom of a lake-bed to the elevation "a flat-boat should be included in a time no floods have swept over it and for cropping here" and that "a man cahontas county a year."

muskrat houses and duck ponds, there warmth and mellowness that is favorare now finely cultivated fields. Great able not only to the growth of crops expanses that once seemed to be but their maturity in this locality, worthless swamps, save that they as early as upon the more clayey soils, yielded a thousand muskrats each two hundred miles further south. It year, are now the most productive has also the additional advantage of portions and yield annually many becoming sufficiently dry for cultivathousands of bushels of corn. A few tion sooner after the frosts of early years ago the high and dry lands spring have ceased, or the showers of brought two and three times as much summer have ended, than those that as the low, flat pieces, but now this al- contain a greater proportion of clay. so is changed. There is now little or It is a soil that is easily subdued, may no waste land in the county.

land has not "risen above the waters," chinery and is well calculated to withbut the ditching machine, that great stand the extremes of drought or exenemy of the duck and muskrat, has cessive rainfall. been abroad in the land, considerable the grasses has been broken by the ductiveness of this locality under all the surplus moisture allowed to evap- some other parts of the state. The orate. These instrumentalities have wonderful power of this soil to withcontributed greatly to make Pocahon- stand the injury arising from either productive in the state.

### THE SOIL.

"Other skies may be fair, Other lands be brilliant with beauty, Or rich with their treasures Of rock-hidden gold. But hearts that are true To affection and duty, Best ever and dearest Will 'Pocahontas County' hold." -A. L. F.

The soil of this county is a rich, dark loam, that varies in thickness from two to eight feet. It is an undisturbed drift soil underlaid with a deep subsoil of porous clay mixed slightly with gravel, and possesses a uniform richness and fertility throughout the county. It differs somewhat available for cultivation. from similar soils in other parts of the state, in that it contains a slightly 1894 to 1895, there was afforded a strik-

became web-footed after living in Po- greater proportion of sand and less clay, a circumstance that imparts But a great change has taken place. physical properties to it that are very Where once there was nothing but beneficial in agriculture, giving it a be cultivated in the most convenient There has been no upheaval, the manner with the latest improved ma-

In these characteristics of the soil tiling has been done and the tangle of is found the secret of the uniform proplow. Through these means the sur- conditions of the weather, and of the face water has been removed and superiority of Northwest Iowa over tas county what it is today—one of excessive drought or moisture, has the healthiest, most beautiful and been demonstrated year by year, ever since the first settlers turned the first furrows in this section.

> During a series of seasons in the eighties, when the crops in many other localities were seriously damaged by unusual rainfall, the farmers of Northwestern Iowa moved steadily forward, gathering abundant harvests. This ability to withstand excessive moisture is no doubt due to the fact that the subsoil of this region is rarely an impenetrable clayey hardpan near the surface, acting as a bowl to hold the water in great quantities, but is sufficiently porous to allow an excessive rainfall to percolate to an indefinite depth and leave the surface

> In 1886 and during the period from

pacity of this section to resist the that judicious care and cultivation general blighting effects of drought. In February, 1895, when the famine \*prevailed in Central Nebraska and the unusual drought was more or less severely felt in all parts of this and the neighboring states, two carloads of grain and provisions were freely donated by the citizens of Pocahontas county and sent to the sufferers of Custer county, Nebraska. This incident will always be a reminder not only of the generosity of the people but of the bountiful harvests gathered here at a time of general scarcity elsewhere. In this particular instance the local showers that visited this section in the summer of 1894, contributed greatly to insure the crops of that year. It remains however, to observe there never has been a failure of crops, on account of drought, in Pocahontas county. The secret of this ability to endure long droughts is also found to a great extent in the subsoil of this locality, the porous nature of which enables it to receive and retain moisture to a great depth, so that while the surface cultivation acts as a sort of mulch, the roots of growing crops strike deeper in search of needed moisture.

It is to these singularly propitious qualities of the soil, together with a healthful and invigorating climate and an abundant supply of good water. that the unrivaled prosperity and enrichment of the people of Pocahontas county are due.

The country west of the Mississippi can afford no parallel to the prosperity of Northwestern Iowa. The surplus of one year has not been consumed in making good the losses of the preceding one, but a surplus has been produced every year. It is for this reason that farmers and stockraisers of this section have been growing rich and that that they should do so is not strange. It is the natural result of

ing illustration of the remarkable caputting these beautiful prairies under they merit. Such a teeming, trusty soil rapidly develops beautiful rural homes, builds cities, towns and railroads, and flings wealth into every willing hand that touches it.

LIMESTONE BEDS, CLINTON TOWNSHIP.

An interesting exposure of stratified rocks is found in the limestone beds of Clinton township, near the eastern border of the county. Northwestern Iowa there are but two other similar exposures of stratified rocks and they are found, one in the southwest corner of Plymouth county, consisting of Woodbury sandstones and shales, and belonging to the cretaceous (chalk or reptilian) age; and the other is in Lyon county, in the extreme northwest corner of the state, consisting of Sioux Quartzite, a brownish red granite, and belonging to the azoic\* age.

The stratified rocks in the southeast part of Clinton township, have been referred by State Geologist Charles A White, to the Kinderhook beds, constituting the lowest formation of the sub-carboniferous group that is found immediately underneath the coal-bearing strata. These Kinderhook beds in Iowa are about 175 feet in thickness and consist of alternate layers of sandstone and limestone, the latter partly magnesian. The exposures in Clinton township are confined to a small space upon the gentle slope of the prairie valley, yet considerable quantities of rock have been quarried here for lime and building purposes.

The rock at this place has a slight westward dip and consists of thin layers of limestone that is slightly oolitic (granular) but chiefly sub-crystalline in texture and contains numer-

\*The age preceding organic life, and therefore containing no fossils or organic remains. All granite formations, including the boulders of the prairies, belong to this age.

species of mollusks (soft) or bivalves, miliar illustrations.

first exposure of stratified rocks due north of Pocahontas county, is found at New Ulm, in the valley of the Minnesota river, Minn., and it consists of a single exposure of the azoic age, having the same formation as the Sioux Quartzite found in the extreme northwestern corner of Iowa.

If a square that shall represent one hundred miles east and west, and the same distance north and south be placed on the north line of Iowa, so that it shall extend southward between the 29th and 30th ranges of townships from Kossuth to Greene counties. thence westward from Grand Junction to Onawa and thence to the north line of the state so as to include the east ranges of townships Plymouth, Sioux and Lyon ties, in the most elevated portion of of Wales where they were first found. township, Pocahontas county.\*

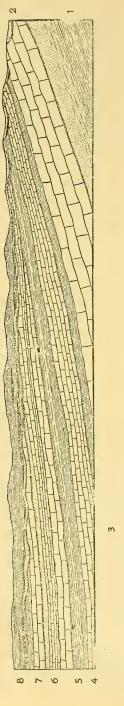
it is the most northern and western point in Iowa at which the strata of this or any other sub-carboniferous formation is found. It is also the most western point at which any pa'leozo'ic (ancient life) strata has been observed within the limits of the state. In the section of country south of Pocahontas county, all the rock strata exposed within the limits of this state belong to the Lower, Middle and Upper coal measures, all \*Geology of Iowa, 1870-page 208.

ous small fossil remains. The fossils measure formation of Iowa beneath are those of marine animals and be- the cretaceous (chalk) strata of Nelong chiefly to the orthis (straight, braska and they are not seen in that rather thin) and spirifer (spiral) fami-direction until they come to the surlies of brachiop'oda (arm and foot), face again near Salt Lake, a thousand miles distant. The most northern exof which the clamand oyster are fa-posures of these rocks, extending from Harrison through Guthrie and Greene to Webster county, indicate that the coal-bearing formations of Missouri and Southern Iowa have ended by thinning out somewhere beneath the drift of this broad, stoneless area.

### OTHER ROCK-BEDS IN IOWA.

It will be of interest to note that the oldest stratified rocks in Iowa are the Sioux Quartzite or brownish red granite, found in the extreme northwest corner of the state. These belong to the Azoic or Algonkian age, the age preceding the existence of either plant or animal life.

The next oldest rocks are found in the northeast part of the state, in the territory extending from Dubuque county to the north line of the state and westward to Winneshiek county. These belong to the Lower Silurian counties, it will represent 10,000 square age, so called after the Silures, the anmiles, embracing more than 12 councient Celtic inhabitants of that part Iowa on which there are no exposures It is also called the age of inverteof stratified rocks to be found except brates (destitute of a backbone) bethe quarry, on section 25, Clinton cause during this period animal life began to exist in the seas under the This locality is interesting because forms known as articulates, (with a segmented body like a worm,) radiates (having a radiate structure like a flower) and mollusks. The Potsdam sandstone, a soft, friable formation found in the channel of the Upper Iowa river for a distance of twenty miles from its mouth, in Allamakee county, is the oldest rock in this section, and it is supposed to rest on the Sioux Quartzite. Overlying this formation are the lower magnesian limestones, buff colored dolomites, in the of which have a slight southwesterly bluffs that border the valley of the dip. This dip carries the Upper coal Upper Iowa, and the St. Peter's sandstone, a gritty, light colored rock, gen-



# Generalized Section showing the relations of the Geological Formations along the Mississippi, from the north line of lowa to the mouth of the Ohio.

1-UPPER CAMBRIAN, co-ordinate with, but in Iowa not a part of the lower Silurian age, represented by the Potsdam or St. Croix sandstone along the Mississippi and Upper Iowa rivers in Allamakee county.

stone of Dubuque county, the Maquoketa shales along the Little Maquoketa river and the Niagara or upper magnesian limestone found at Farley, 2-SILURIAN AGE, Oneota or Lower Magnesian limestone capping the bluffs and valley sides of the same rivers in the same locality. Over it are found the St. Peter's sandstone which at McGregor is called the pictured rock, the Trenton limestone of Winnesliek county, the Galena lime-Anamosa and Le Claire.

3-DEVONIAN AGE, the Wapsipinicon series, including the Independence shales of Buchanan county and shales of Fayette county.

4—Cedar valley Ilmestone, exposed at Waverly, Rockford (shale), the Old Capitol quarry near Iowa City, and in Muscatine county, and containing fossils of mollusks and corals,

5-CARBONIFEROUS AGE, Kinderhook shales and limestone beds at Burlington and in Potahontas county.

6—Augusta limestone in bluffs of Des Moines and Louisa counties, including Burlington and Keokuk beds, with their crinoid (Illy-like, starfish) fossils.

7-St. Louis limestone that usually forms the floor of the coal-bearing strata.

8—Coal measures, in which the veins or beds of coal are found; formed under, and therefore before the Nishnabotna sandstones of Guthrie and Montgomery counties, the sandstones and shales of Woodbury county, (all of which are shore deposits), the Niobrara or chalk beds along the Big Sloux river, the gypsum beds of Webster county and the surface drift that covers the entire state.

erally, but having shades of red and mountains, there were only islands, yellow at McGregor that give rise to reefs and shallow waters marking the local name of "Pictured Rocks." their future site, for none of the coal-The Galena limestone in which the bearing strata and other rocks now lead is found and that forms the found upon their slopes 13,000 feet high bluffs along the river at Du- above the sea had yet been formed. and northward, also repre-Fayette. The cision of the strata.

islands there appeared seaweeds, ferns, that period. ground pines and conifers. The lime-brown or buff-colored limestone, and stone found at Rockford, Waverly, usually contains small fossil remains. the Old Capitol quarry near Iowa City and at other places in the district just proper are found in the country south named, are referred to the Hamilton of the region just named, along the period of this era. The oil wells of Des Moines and Raccoon rivers; while Western Canada are traced to the the upper coal measures are found in limestone beds formed during this the southwestern part of the state, era in that section. During this De- from Wayne to Madison and thence to vonian age when the strata of the Harrison county. It will thus be perrocks last named formed the surface ceived that the rocks formed during of the earth's crust in this section, the carboniferous age, occupying the the continent of North America was central and southern part of the state, to a great extent a vast sea with a are the surface rocks of the greater very limited amount of dry land. In part of Iowa, and indicate the geoplace of the Rocky and Allegheny logical age of this section of country.

The age of Fishes was followed by sent this age. The Upper or later that of the coal plants, called Carbon-Silurian period includes the ex-iferous. This age has been divided posures in the area extending from into three periods of time, each rep-Scott county northwestward through resenting a distinct formation of Niagara limestone rocks known as those of the lower, found at Farley and other places in middle and upper coal measures. It Dubuque county, at Le Claire, Scott was commenced with a preparatory county, and as far west as Anamosa, marine period called the sub-carbonifbelong to this period. This forma- erous or lower coal measure that had tion affords the best and greatest its consummation in a long era of examount of building rock in the state tensive continents, covered with forand the quarries at Anamosa are re- ests and marsh vegetation, and submarkable for the uniformity and pre- ject at long intervals to inundations of fresh or marine waters. This sub-Southwest of this area there is a carboniferous period in Iowa extends belt 50 miles in width and 200 miles in from Lee and Louisa counties in the length, extending from Davenport to southeast part of the state, through Muscatine on the Mississippi in a Washington to Franklin and thence northwesterly direction to Mitchell west to the eastern part of Pocahonand Worth counties on the north line tas county. The rocks that occur in of the state, where the rocks that are this belt at Burlington, where the exposed belong to the next age, that beds are 147 feet in thickness, along of fishes, called Devonian. During the Iowa river in Tama, Marshall, this age the waters of the sea began Hardin and Franklin counties and to be inhabited by the reef-building along the Des Moines in Humboldt corals, turtles, sharks and scale fishes, and Pocahontas counties, have been and in the marshes and upon the referred to the Kinderhook beds of The rock is a light

The carboniferous or coal measures

stratified rock-beds are distinguished This luxuriant vegetation grew under and the strata of the different dis- the influence of fresh or lake water tricts are classified.

farther and farther southward until lying the coal-beds, were formed. America.

At the commencement of the carboniferous era, a vast sea of shallow cumulated vegetable debris (rubbish) underneath it. sufficient for beds of coal. Trees and accumulations of vegetable remains. ent location and arrangement. and occasional logs floated over the erable part, including all the boul-

It is by their organic remains or an-lakes to sink and become buried in imal and vegetable fossils that the the accumulating vegetable deposits. and formed coal only where there were Iowa is near the center of the great marshes and the deposits of vegetable interior region between the Allegheny debris afterward became covered by and Rocky mountains. This vast ex-deposits of sand, clay or other rock panse of country unbroken by mount-material, the result of a submergence ains and untouched by the sea, has that let in the saline, or seawater been termed a great basin. Every- with its period of abundance of aquatwhere are evidences of the compara- ic, (water), or marine life. It was tively recent elevation of the surface during this more recent period that that has lain for ages near the level of the gypsum beds upon the tops of the the sea. The deposition of each later bluffs and hills in the vicinity of Fort formation carried the old shore line Dodge, and other stratified rocks overat the close of the carboniferous the will be perceived that the luxuriant the land surface had been extended to forests and vegetation that once exthe central portion of what is now the isted throughout this section of counstate of Arkansas. The Gulf of Mex- try and furnished the material for ico and the five great lakes of the lake the coalbeds, were all destroyed, for region are now the diminutive rem- all existing forests are found above nants of that vast body of water that the drift deposit, a material of still once covered the central part of North later formation than the gypsum beds and many feet in depth.

## THE DRIFT AND BOULDERS.

The term Drift, includes the clay, water spread out over what was soon sand, gravel and boulders that conto be the heart of a great continent. stitute the covering, in unstratified A long period of quiet existed while form, of the rock formations throughthe great beds of limestone, formed out Iowa. Its depth or thickness for the most part from organic re-ranges from a few to several hundred mains, were laid in sheets. Subse- feet and its greatest depth is found quently, over the marshes and dry along the watershed or divide, near slopes there grew rank forests of lepi- the summit of which Pocahontas dodendrons—trees of great size, hav- county is located. Whilst it is found ing scaly or sectional bark with leaf to be from 50 to 100 feet in other parts scars—conifers and other varieties, of the state, along this ridge its depth and their luxuriant growth continued ranges from 150 to 250 feet, so that until the creeping centuries had ac- wells rarely reach the stratified rocks

The drift is composed of more or less shrubs grew rapidly, shed their leaves finely pulverized formations that exand fruit and then dying formed the isted in other forms prior to its pres-While great stumps stood in the large part of it was doubtless derived swamps the debris of the growing from the rock formations that undervegetation and also the drift borne by lie it, many of which in Iowa are soft the waters accumulated around them, and easily pulverized, but a considity.

The clay of the drift has a brown or buff tint and is commonly called joint clay, because it breaks into angular lumps when dry or exposed to the air. It is always more or less impure and its yellowish color is due to the presence of peroxide of iron, which becomes red when burned. as in brick or tile. The proportion of lime in it is so great that the water of healthful, cool and excellent for man and beast, vet holds so much carbonborax, potash or sal-soda.

small proportion of the drift in Iowa, in Bellville township, is located but a and the former as regards its fineness few rods south of the highway and it is very variable. The gravel however, was originally egg-shaped, resting on wherever it is found, is a character- its larger end. It was about forty istic constituent and was derived feet in diameter at the surface of the from rocks that are either silicious ground, and the exposed portion (flint-like) or granitic (composed of though now reduced to fifteen was quartz, feldspar and mica), and no about twenty-five feet in height. doubt a large part of it existed as This rock, in the early days, in the abgravel, before the glacial epoch.

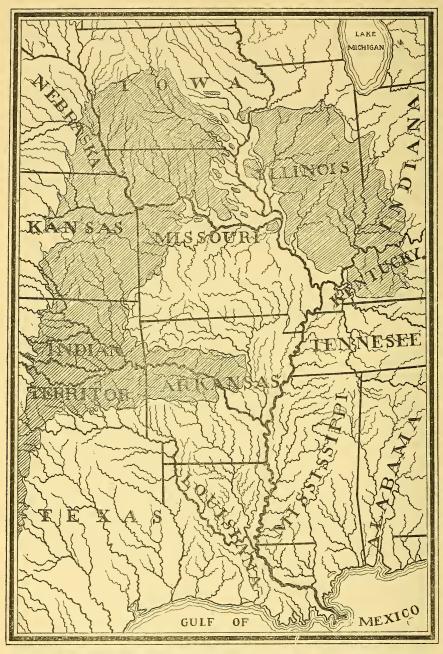
and as far south as Des Moines.

many localities in Pocahontas county, there were originally numerous boul- and refreshed himself. ders or rounded stones and they

ders, came from some northern local- be seen only in this humble position of usefulness in the walls of buildings, but there they will remain to attract the attention of future generations to their wonderful and interesting story.

Two very large boulders may still be seen in Pocahontas county; one on the east side of section 9, Dover township, known as "Hunters' Rock," and the other on the northwest corner of section 33, Bellville township, called "Lone Rock." The former is about all our wells and springs, though seven feet in height above the ground and twelve feet in diameter. It is located on the edge of a slough, about ate of lime in solution that it is too twenty rods west from the road runhard for washing purposes until the ning along the east line of the section, carbonate has been precipitated with and many a wild duck has been brought to the ground by the hunter stationed Sand and gravel constitute a very upon or behind this rock. Lone Rock, sence of groves and buildings, was an The drift in Iowa was evidently attractive object to the passing emiformed at two different periods. The grant, and when the first settlers earlier drift mantles all the surface of came to this county, about ten years the state except the extreme north- later, they found the inscription, eastern corner of it, while the later "1848," painted on the south side of drift is represented by a lobe that ex- it, or more correctly, cut with a red tends one-third the way across the stone chisel or hammer. By its towstate, where it enters from the north, ering height, it became a conspicuous landmark, guiding the lonely Upon the surface of the drift, in traveler on his way, and in its grateful shade the weary pilgrim sat down

Another large boulder, 20 feet high ranged in weight from fifty pounds to and 30 feet in diameter at the surface one or more tons. Nearly all of these of the ground, might have been seen surface rocks, commonly called "nig- in the early days on the west side of ger heads," have now been removed the SW. 4 of Sec. 33, (Harrold farm) from their home on the prairies and Lincoln township, six miles north of utilized in the erection of the first and Lone Rock; but only the base of it some of the most substantial walls in now remains. The fact was noticed this section. In a few years they will by the early settlers that the ground



SKETCH MAP OF THE INTERIOR COAL REGION OF THE MISSISSIPPI VALLEY.

Throughout the shaded portions, the surface rock formations belong to the Carboniferous or coal-bearing strata.—From the Iowa Geological Survey, through the courtesy of Samuel Calvin, State Geologist.

around these large boulders was re- to the concretionary character of the moved to the depth of about two feet mass of which it was originally a part. on the south and east sides. The called them "buffalo wallows."

and others of quartzite. digious in size.

Pilot Rock, a huge granite boulder rest upon granite. along the Little Sioux river in Cherokee county, was so high and afforded the Indians a survey of the surrounding country so extensive that they river near it Stone river. They left upon it the only inscriptions that tell of their occupancy of this territory. A similar boulder, 2½ miles distant from Waterloo, 28 feet high, 30 feet long and 20 feet wide, after the removal of the earth around it, but originally projecting only eight feet above the ground, has become famous because in 1890, this giant monolith after resting undisturbed for countless years and buried by the deposits of ages, was converted into building stone and then transformed into a large and beautiful stone church in the city of Waterloo-the First Presbyterian. In its rough state it was estimated to have weighed more than 2500 tons.

Their rounded forms seem to be due snow line before the heat of summer

Rocks have been formed chiefly in cause of these depressions was not two distinct ways; first, by being sovery clear, but most persons attrib-lidified from the molten state by uting them to the standing or bur- cooling, and second, by being spread rowing of the wild animals that fre- out in layers or strata, through the quented them as places of shelter, agency of water. The primary rocks, or those of the Azoic age, were formed The boulders, found chiefly in the in the way first mentioned, if we aclater drift, constitute a very conspic- cept the supposition that the entire uous and characteristic feature of it mass of our earth was, in the first although they form but a very small period of its life, in a molten state. proportion of its bulk. In North- This primary formation is called granwestern Iowa there are two varieties ite and it is generally believed to be of them, some being composed of the oldest variety or type of rock granite (quartz, feldspar and mica) open to our observation. In all parts Those of of the earth wherever the base of the granite formation are by far the most aqueous (formed by water) or stratinumerous and some of them are pro-fied rocks has been upheaved to the surface, that base has been found to This igneous (formed by fire) type of rock forms the base of the stratified rocks everywhere, and at one period the surface of the earth was entirely composed of called it the "Big Stone" and the it. Granite is the oldest and most durable of all rock formations; it is a close, compact body composed of fragments of other stony matter so firmly cemented together by heat that the whole forms one solid mass without any indication of pores, fissures or layers.

## THE GLACIAL PERIOD.

It is the general belief that the boulders and all the later surface drift, in which they are chiefly found in Iowa, were accumulated and transported here through the agency of ice, during the glacial period that occurred subsequent to the carboniferous age; and that the earlier and later sheets of drift indicate two distinct eras of the glacial period. Glaciers are accumulations or streams of ice 200 to 5,000 These boulders generally have a or more feet deep, fed by the snows somewhat rounded form but seldom and frozen mist of regions above the present any appearance of having limits of perpetual snow, and they debeen waterworn, as the pebbles do. scend 4,500 to 7,500 feet below the

era, as indicated by the earlier sheet part of Minnesota. that the later glacier, as indicated by most eastern exposure. northward, the within the drift of Iowa.\*

northern part of this continent, ac- Lake Superior. companied with a very low temperaution by the inland waters.

a tool of vast power, as well as mag- the older rock formations. nitude, for scratching, plowing and or drift.

western Iowa, have been traced to commenced."\*

melts them, their movement being their native ledges, the quartzite exsomewhat similar to that of cold pitch, posures in the extreme northwestern It is believed that during the earlier corner of Iowa and, the southwestern This quartzite of drift, the glacier covered the great-boulder is not found north of these er part of North America, extend- exposures of the Sioux quartzite ledges approximately as far south- mentioned, nor further east, even in ward in the Mississippi Valley as the Iowa, than a line nearly due south line of the Ohio and Missouri rivers; from New Ulm, Minnesota, their the later sheet of drift, extended as far colored magnesian boulders of the south in Central Iowa as Des Moines southeastern part of the state have and that both glaciers gradually re- been traced northward to their origilater one nalledges in Northeastern Iowa and limits of the frigid Southeastern Minnesota. zone, where it is now producing phe-granite boulders, found throughout nomena similar to those seen in the all parts of the state but most plentifully in its northern half, have been Each era of the glacial period must traced to the granite cliffs in the rehave been one of elevation of the gion of country north and west of

The drift in which the boulders are ture, and the period was followed by found, contains other materials which one of unquestioned depression, re-indicate that a great part of it has sulting in a higher temperature that also come from another section. The caused the disappearance of the ice in earlier or lower part of the drift is a immense floods along the valleys, bed of clay that usually contains no The former was the period of the marine fossils but only drifted logs gathering and transportation of the and other accumulations of vegetable earth and boulders, and the latter the material. In the later drift fossils period of their deposition and distrib- are occasionally found, but, like the boulders, instead of representing the The rocks, large and small, in the period when the drift was formed, bottom and sides of a glacier, make it they invariably belong to the eras of

Rare substances, such as lumps of planing the earth and rocks over copper, impure coal, pieces of wood which it moves. The grinding of the and other traces of vegetation found rocks against one another and those of near the surface of the earlier drift the bottom against those underneath have either been transported to this it produces very fine powder which section and therefore are strangers in forms the deposit called boulder clay it as certainly as the granite boulders; or, as is stated by McGee in regard to The most convincing proof of the the latter, "The remains of ancient northern origin of the boulders is trees, logs and stems of coniferous. found in the fact they can be traced woods are so widely distributed as to northward to their original ledges, prove that the older drift sheet was The brownish red quartzite boulders, covered with soil and clothed with occasionally found throughout North- forests before the later ice invasion

<sup>\*</sup>Dana

<sup>\*</sup>lows Geological Survey, 1892, p. 141.

copper.

#### WOOD IN WELLS.

In sinking a well a few years ago on the SE 4 of Sec. 22, Lincoln township, then occupied by Charles Kezer, at a depth of 96 feet, the workmen, who were using a 24-inch auger, struck the decayed trunk of a very large tree, pieces of which, six inches in length, were brought to the surface. The large size of the tree was indicated by the fact the auger was embedded its full width in the tree. The workmen were able to distinguish the bark from the body of the tree and the latter resembled cedar wood. A few pebbles were found underneath the log. The clay in which it was embedded began within six feet of the surface and extended as far as they continued to bore, 110 feet.

Similar logs have been struck by the well-diggers in Sherman, Cedar and other townships of this county. Some pieces of wood found at a depth of 60 feet in a well on the farm of John Bartosh, Center township, are before us as we write; they are very light and this wood came were no doubt north- stones when struck with a hammer, ably can never be known.

A mass of copper found in Lucas Glacial period, under the idea that ice county, south of Des Moines, must either in the form of icebergs or glahave traveled 460 miles southward, if ciers, which is more probable, transit came, as is most probable, from Ke-ported the earth, pebbles and boulweenaw Point, south of Lake Superior, ders of the drift. Glaciers, like those the nearest known district of native of the Alps, are known to have transported these materials long as well as short distances and to make scratches upon the rocks beneath them precisely like those found at Burlington, Council Bluffs and other places in Iowa.

> The trees over a continent of great forests were rooted up or broken off with the first movement of the ice and either partly ground up or carried and deposited with the drift, sometimes in beds of vegetable material, at other times as scattered logs, limbs and roots.

> The subsequent melting of the glaciers resulted in a long period of immense floods while the waters were subsiding, and their boundaries finally became limited to the great lakes in the north and the Gulf of Mexico in the south. After the subsidence of the flood many lakes along the rivers disappeared and the rivers dwindled to about one-tenth their former size.

"The valley in Clinton township, that commences near the place where Pilot creek enters the Des Moines river and, extending southward, first as most of them look like cedar. The a deep ravine, to the Van Alstine wood thus found in the drift is not farm on sections 24 and 25, then petrified nor converted into coal, but broadens out into the stone quarry is merely mineralized so that it is but flat, has been a section of considerable slightly combustible. We cannot sup-interest to those whose attention has pose that these trees grew in this sec- been attracted to it. Here the ledges tion while the drift was accumulating of limestone seem to have been upany more than they now grow in the gla- heaved by some mighty force that has cial region of Greenland unless it were broken and seamed the original layers during the period between the earlier in all directions, as if by an explosion and later drift. The forests whence while the rock was heated; and the ward, but their exact location prob- give that sonorous sound peculiar to rocks and bricks that have been sub-Geologists unite in calling the era jected to a great heat. It is worthy when the drift of Pocahontas county of notice that the Des Moines river and throughout Iowa was formed the makes a sharp bend eastward, north

turn southward. county, good drainage can be had by just stated. drilling into the rock until a fissure terraneously."\*

paratively of a uniformly level plain, gion. Most of the lakes and sloughs the longest droughts. are found in the localities in which the streams have their sources, particularly the elevated slopes along the watershed, where they have remained because no accumulation of water beyond has sent currents across them to cut channels for their outlet.

### FLOWING WELLS AND FOUNTAINS.

Flowing fountains in the channels of the streams are not unusual, but upon the prairies they are rarely In Pocahontas county the following ones have been noted:

In a body of native timber north of the home of the late Philip Russell, on Sec. 2, Lizard township, near the

of this locality, after meandering west branch of Lizard creek, there is southward about seven miles, and a flowing fountain at which the water Lizard creek, at a point nine miles rises four feet above the ground and further south, makes a similar sudden flows continually with a constant Throughout this stream. This fountain was discovered intervening elevated or apparently up- in 1886 by John M. Russell, while prosheaved district, which includes a por- pecting for coal and he supplied it tion of the western part of Humboldt with a metallic tube with the result

The strongest spring reported in has been found. The largest slough the county is located along Pilot creek, in the eastern part of Pocahontas two miles east of Rolfe, where Geo. county on sections 28 and 29, Clinton Heald in 1882 erected his cheese factownship, has thus been drained sub-tory. There are in fact two constantly flowing springs only eight feet Whilst the condition of the surface apart at this place; one is a strong of Pocahontas county before the Gla- spring of clear, pure, cool water and cial epoch cannot be fully known, yet the other comes from a mineral bed, at the close of that period, both it the sediment from which gives the and the state of Iowa consisted com- ground a yellowish red color as it flows.

On the farm of Charles A. Hawley, unmarked by any strong features and NW 4 Sec. 14, Marshall township, without any completed system of sur-there is a flowing well located in the face drainage. After the recedence of pasture about forty rods due south of the glaciers and the subsidence of the the house. Sinking a well to the floods incident thereto, numerous depth of fifty-five feet at this place, shallow depressions were left upon the the water immediately rose to the surface filled with water, thus form- surface and flowed from the mouth of ing lakes, ponds, swamps and sloughs. the well. It was supplied with a The slough, found midway between windmill to elevate the water into a the swamp and the upland prairie, tank, but the overflow has continued, was a characteristic feature of this re- when the pump is not working, during

> On the Stafford farm, on the SW 1 Sec. 33, Cedar township, two miles southwest of Fonda, there is a flowing well that was sunk a few rods from the west bank of Cedar creek, in 1886, by David B. McKillipps, the former owner of the property. This well was sunk with a large auger to the depth of sixteen feet and then with a threeinch auger to the depth of thirty-eight feet, when water rose to the surface. A small tube was inserted in the lower part of it, and for a number of years the water was made to flow into a trough by means of this tube. In 1895, a six-inch iron tube was forced to the bottom of the well, and the upper part of the well being filled

\*J. J. Bruce.

above the ground.

ing of wells have found it necessary during recent years to change from the bored to the drilled well, ranging from 75 to 200 feet deep, in order to supply of water.

LOAM OR SURFACE SOIL.

The fine, dark-colored loam or sur- and commodious farm-houses.

around it, the water now rises and face soil of the drift in Pocahontas flows constantly into a tank two feet county, is a vegetable mold formed principally from organic matter that Since the removal of the surface has decayed without submergence in water by the drainage of the sloughs, water. It contains unoxidized carespecially since the long continued bonate of lime and peroxide of iron; drought of 1894, when the lakes of and its materials are so thoroughly this county for the first time in their pulverized and commingled that it history became dry, most of the absorbs the water of a freshet like a springs on the prairies together with sponge and holds it for a midsummer the streams fed by them, have disap-drought. It is soft, warm, rich in orpeared and many shallow surface ganic matter and easily cultivated. wells that rendered efficient service It yields to the plow like "cheese to for many years, have been rendered the knife" and is capable of producing useless. To supply the increased de-crops of cereals for many successive mand for good drinking water for man years without showing signs of exand beast, those engaged in the sink- haustion. It yields agricultural and horticultural products in a region in which the pioneer hesitated to settle because of the absence of timobtain a greater and more permanent ber, but which is now marked by its large herds of cattle, fruitful vinevards, abundant crops, capacious barns

## FIRST SETTLEMENTS IN THE COUNTY.

"Westward, the Star of Empire takes its way," Thus sang a poet once in early day, But had he had the happiness to lodge At the Wahkonsa tavern, in Fort Dodge, As kept in fifty-five, by William Hodge, His visions of the west would then expand To vast proportions.—John Haire.

THE LIZARD SETTLEMENT.



HE first settlements this section to the regions beyond, in Pocahontas county and numbers of roving trappers and were made in the hunters had here very profitably pursoutheast part of it sued their vocation, but no one had and in the year 1855. made an actual or permanent settle-Previous to that date ment. The establishment of the milmany had passed westward through 1 tary post in 1850, and of the United time, and new settlements radiated cinity of St. Paul, Minnesota. from this place, as a common center, in all directions.

the section adjoining this on the east, which on SE<sup>‡</sup> Sec. 13, a half mile southeast following that date, 1862-65. of Hickey's in Pocahontas county. Mibrother had selected for him.

whom he worked. lodged most of the time. His little the SW<sup>1</sup> Sec. 1.

States land office, November 5, 1855, turning to Pennsylvania where his together with its location due west of wife remained, he came back to his Dubuque and north of Des Moines, claim with the family of Michael Colmade Fort Dodge a place of unusual lins, in the following month. When prominence and importance at that he sold his claim he located in the vi-

On the arrival of Michael Collins and family, his brother Hugh assisted In February, 1855, James Hickey, ac- him to build a log cabin. Moving into companied by Hugh Collins, passed up it as soon as it was completed, the Lizard creek from Fort Dodge and se- family of Michael Collins became the lected claims, the former on the NW1 first resident family of Pocahontas Sec. 12, Lizard township, Pocahontas county. He continued to reside in the county, and the latter a claim on county for many years, and when in one 1860, the office of county supervisor was across was established in Iowa, he had the the line in Jackson township, then honor of being chosen, at the ensuing Humboldt but now Webster county. election, a member of the first Board The latter also at this time selected a in this county for the year 1861, and claim for his brother Michael Collins, Treasurer of the county for two terms

Michael Collins was a native of Clare chael Collins, accompanied by his wife county, Ireland, where he married and three children, arrived August 9, Bridget Spellacy, who still survives 1854, and located on the claim his him, he having died at Clare, Webster county, September 3, 1898, at the age James Hickey built a little cabin of 77 years. His family consisted of on his claim but did not put a roof up- three sons, Patrick and James, both on it, nor occupy it to any extent, but of whom died young in Ireland, Bridglived with the other settlers for et, who cared for him after his retire-After a few ment from business, and M. T., who months, or when his corn had been resides on the SEI Sec. 12, Lizard husked, he returned to Fort Dodge township. The latter at the age of and worked for a man by the name of twelve years, coming with his father Mahoney until the spring of 1856, to the Lizard settlement in 1855, is one when he met Charles Kelley and sold of the first settlers in the county and to him his interest in his claim and he was a member of the Board of cabin which were estimated to be County Supervisors six years, 1887worth \$300. He had about ten acres 1892. His wife, Miss Fannie Haire, of of ground broken and planted in corn. Fort Dodge, was one of the first teach-This piece of breaking, the first in ers in the settlement, teaching the the county, was commenced by Hugh school in the Calligan district from Collins, his neighbor and friend in January to May, 1865, in the log build-Jackson township, with whom he ing built by Dennis Connors in 1857 on She had twelve crop of sod corn, also the first raised pupils and they are all living at presin the county, was thrown into his ent, namely—Henry, Charles and Anna vacant, unfinished cabin and the Kelley; Edward, Thomas, Mary, Ellen wolves ate or destroyed a great part and Maggie Calligan; Patrick and Edof it. He was about twenty-five years ward Forey; John and James Mulholof age and in the month of July, re-land. Their son, W. J. Collins, whose

portrait appears in the Lizard group, Michael Walsh, tor of the Clare Examiner.

Michael Broderick, a young man of nineteen years and brother-in-law of ous winter south of Fort Dodge. He John Calligan, it is affirmed, was also bought the claim of James Hickey on a resident of this county in 1855. He Sec. 12, Lizard township, completed laid claim to the NE4 Sec. 2, Lizard his unfinished cabin and moving into township, and held it until 1858, when it occupied it until 1865, when he he sold it to Patrick Calligan, and a built a log house that he continued to year later went to Linn county where occupy as long as he lived, (1890) and for several years. He is now a pros- of the family still occupy. perous farmer in Harrison county. settlement.

The pre-emption claims of James Hickey, of Michael Collins and of his younger brother, Hugh Collins, were all located by them before the U.S. land office was opened at Fort Dodge, and hence no fees or price was yet paid for the land. They and Michael Broderick were the only settlers in that locality during the year 1855, and all of them had come from the same place in Pennsylvania. To Hugh Collins belongs the distinction of having been the first settler in Jackson township, Webster county, and of turning the first furrow in Pocahontas county.

We see the cabin of the lonely pioneer. Upon the prairie as the sun is sinking; The clapboard roof leaking at the rear, chinking.

During the year 1856, a considerable Walter Ford, Philip and John Russell. Dennis Connors, Henry (Frederic and rived in the spring; James Donahoe, Fort Dodge May 13, 1856, and located

Patrick and his is now practicing law at Clare and edi-brother Owen McCabe, who came in the fall of the year.

Charles Kelley had spent the previhe married and followed railroading which his wife and several members

The cabin of Hickey, occupied by He served as clerk in the Lizard pre- Charles Kelley, commencing with the cinct at the time the first election first election, held March 15, 1859, bewas held, March 15, 1859, and carried came the polling place for the Lizard the returns and first poll books of Liz- precinct for several years, and the ard precinct to the cabin of David proposed site on his farm lacked but Slosson, then elected as the first coun- one vote of becoming the county seat ty Judge, (at Old Rolfe) in Des Moines at the time it was decided to erect the first court house at Old Rolfe.

Mr. Kelley was a native of Ireland, and coming to America in 1842, located first in Canada, then in Ohio, where on March 30, 1855, he married Rhoda Gall, who survives him and has lived on their pre-emption claim nearly forty-three years. They began to occupy their claim on the NW1 Sec. 12, May 26, 1856, and on September 17th following it was entered for record at the U.S. land office in Fort Dodge, when they paid \$1.25 an acre for it. They raised a family of nine children, and at the time of his decease, at the age of 73 years, they were the owners of 800 acres of land, all of which, except 80 acres, is in the possession of The walls scarce holding their rough the family at present. Charles Joseph Kelley, their second son, born May 6, 1858, was the first boy born in Lizard number of families located in the township and his portrait appears in southeast part of the county, among the township group. He graduated at whom were the following: Charles the Rush Medical Institute, Chicago, Kelley, John Calligan and his brother in 1892, and since that date has been Patrick, Roger Collins, John Hugh, engaged in the practice of medicine at Burlington, Iowa.

John Calligan and family, consisting William, 1857,) Brockschink, who ar- of wife and three children, arrived at

the SW1 Sec. 1; Roger Collins, Sept. 15th, for the NE<sup>1</sup>/<sub>4</sub> Sec. 23 and Chas. Sec. 12.

The cabin of John Calligan, built in July, was the first one erected in 1856. It was built of unhewn logs taken from the native timber on the premises and the roof was constructed of split clapboards covered with dirt and prairie sod. It had a large fireplace in the east end of it and on "Christmas Eve" some logs were rolloccupied this log cabin about seven years and in 1863 built a larger house first county seat of Boone county.

During his first year Mr. Calligan raised a good crop of potatoes and sold some of them the following spring at \$2.00 a bushel. He had seventeen acres of fine looking corn that had hand hoe after the sod had been turn-

on the SE<sup>‡</sup> Sec. 2, Lizard township, cle, using a bare spot of ground for a adjoining on the south the claim on threshing floor, before the arrival of which Michael Broderick, his broth- the threshing machine. The first sack er-in-law, had squatted the previous of flour bought at Fort Dodge, weighyear. Both of these claims, which ing 100 pounds, cost him \$10 and bacon were on Sec. 2, were entered and paid 17 cents a pound. Salt was 7 cents a for in cash at \$1.25 an acre on July 3, pound and butter was also 7 cents a 1856, which is the earliest date on pound, but the farmer could not get which any lands in Pocahontas county a pound of salt for a pound of butter, were entered or sold. There is one because the former had to be paid in other entry on this same date and it is eash while the latter was payable in that of Michael Collins for the SE1 trade. To appreciate this apparently Sec. 13. The only other entries in 1856 anomalous statement it must be rewere by Dennis Connors, July 16th, for membered that all groceries and store goods had to be hauled on wagons from the Mississippi river, a distance of Kelley, Sept. 17th, for the NW1 nearly 200 miles, and there were but two stores in Fort Dodge, the one kept by Major Williams and the other by John Haire. There was a great demand for salt and it was a cash article while butter was neither in demand nor its price payable in cash.

There were about twenty acres of timber on the claim of Mr. Calligan and forty acres on the adjoining claim of his brother-in-law, Michael Brodered in and the fire kept burning all ick. This timber, which was along night. The burning of the Yule log the banks of Lizard creek, was full of on Christmas Eve was an event of congame, such as beaver, mink and musksiderable interest in those days since rat. Mr. Calligan had never engaged there was little or nothing in the way in trapping, but when he found the of variety to attract attention. He Indians and others came long distances for that special purpose and were often very successful, he began to do so, too, of hewn logs and sawed lumber, haul- and realized an annual income from ing the latter from Boonsboro, the this source ranging from \$100 to \$130 for several years. Many a time did Mrs. Calligan carry a sack of furs all the way to Fort Dodge, twenty miles distant, and return the same day lugging her purchases.

On one occasion in the winter of been planted and cultivated with a 1857, Mr. Calligan saw an otter at a distance moving in the direction of a ed, but a severe frost on the 16th day spring. He managed to get near the of September completely destroyed it. spring without being observed, and He was a good hand with the flail when the otter arrived it showed signs and many a crop of wheat did he of battle, until he laid it low with a pound in the cooler weather with this whack from a club he had provided for rude implement for the man of mus- that purpose. This otter weighed

\$6.00 for its fur in Fort Dodge.

living, and reside at Gilmore City. wealthiest. Their daughter Maggie married first portrait may be seen in the Lizard 1897. group. Their son, Edward M. Calors for three years, 1884-86.

fall of 1856, and his death was the first NE & Sec. 13, Lizard township, and one that occurred in the county.

number 14.

In February, 1865, Roger Collins entered the  $N\frac{1}{2}$  of the  $NW\frac{1}{4}$  Sec. 24 as a homestead, and the claim lapsing he re-entered it March 1, 1870, and obtained the patent for it in September he sold it to his cousin, Hugh Collins, who died about the year 1888, and it is

about thirty pounds and he received township. He was regarded as one of the most hospitable men in the Lizard Mr. and Mrs. John Calligan are still settlement and became also one of the

Patrick Collins was a member of the to Morris O'Conner, who died in 1885; first school board in 1860, when the and later to James Whelan, residing Lizard district was organized. About at Emmetsburg, was one of the first the year 1865 he moved to Webster children born in the county, and her county and died there in September,

Walter Ford, now a resident of ligan, taught the first public school at Clare, was one of the first to locate in Fonda in the winter of 1870-71, when Pocahontas county. He took an act-Cedar formed a part of Lizard town- ive part in all matters relating to the ship; and T. J. Calligan, another son, organization of the county and was resident of Gilmore City, was a mem- honored by a seat with the Board of ber of the Board of County Supervis- County Supervisors, 1874-1876. He is a native of Ireland, and in April, 1856, Patrick Calligan, John's brother, at the age of twenty-three years, came was killed through an accident in the to this county and laid claim to the for two years his home was in this Roger Collins located on the NE<sup>1</sup> county, while he spent a considerable Sec. 23, and entering it as a pre-emp- part of the time at work in Fort tion claim Sept. 15, 1856, made his last Dodge. During the first year his prepayment and received the official cer- emption was occupied with him by tificate of ownership from the govern- Thomas Crole, a brother-in-law, who ment, called a patent, on Nov. 9, 1859. was holding and improving an adjoin-He improved and occupied this claim ing claim on the SW 1 of the same until 1871 when he sold it to Jacob Car- section. During the second year it stens, who held it until about 1890 was occupied with him by Patrick and sold it to Henry Stickelburg, who McLarney, who the previous year had still lives on the adjoining section, married Ellen, the sister of Mr. Ford. His claim was entered May 19, 1858, and the patent was issued Nov. 1, 1859. His marriage occurred in the spring of 1860, and from 1861 to 1870 he resided at Fort Dodge and was engaged first in teaming and afterward following. A short time thereafter as a contractor for the building of cellars.

In 1870, he returned to the farm now owned by his son, Michael J. Col- which, in the meantime, had been oclins, of Clare. The "Collins Grove," cupied by Michael O'Shea, now at embracing about 200 acres of natural Manson, and William Price, the fathtimber in Pocahontas and Webster er-in-law of James J. Bruce. He concounties, but chiefly in the former, is tinued to reside on the farm a period still in possession of the Collins' fami- of twenty-four years, or until 1894, lies. At the time of his decease, when he removed to Clare. His wife Hugh Collins was the owner of 240 died in 1892. Their family consisted acres in the N1 of Sec. 24, Lizard of nine children. They still own and

occupy the original pre-emption claim Walter P. Ford, his eldest son, who in years thereafter engaged in the grain Clare.

did not become an actual settler.

school house. The first teacher who Philip Russell, a resident of the Sec. 12, also in Washington township. of the District Court, and the second were between investors or speculators, M. T. Collins, whose term extended from January to May, 1865. These this reason it was placed first on the were the first teachers in the Calli- records. gan district. The antique building they occupied was taken down and used for fuel a few years after the erection of the frame school house in this district in 1865.

Dennis Connors and family in 1860, moved to Independence where he died, he having sold his claim to died in 1862. Mrs. O'Connors, wife of tinued to own and occupy it.

The first deed recorded in Pocahonand altogether nearly one thousand tas county is that of the bargain and acres of land in Pocahontas and Hum-sale of this property, (SW 1 Sec. 1) boldt counties. For eleven successive made and executed May 7, 1859, by years 1883-1893, just previous to his and between Mary Connors and Denremoval from it, Mr. Ford was a jus- nis Connors her husband, party of tice of the peace of Lizard township. the first part, and Michael O'Connors, The old home is now occupied by party of the second part, for \$400. This deed was acknowledged before married Elizabeth O'Niel, of Erastus G. Morgan, notary public, Lizard township and for a couple of and witnessed by E. D. G. Morgan.

Whilst this deed was the first one and general merchandise business in recorded, the second and third ones on record both bear an earlier date. Dennis Connors entered as a pre- The second one was executed April 19, emption claim the SW 1 of Sec. 1, 1859, before John C. Bills, a notary Lizard township, July 16, 1856. The public of Scott county, (who not long following year he built a log house since was a prominent member of the upon it and it was occupied by him-democratic side of the lower house self, wife and child, until the spring of the legislature of Iowa,) and was of 1860, when they moved to Inde- the transfer of 320 acres of Sec. 12, pendence. His father-in-law, Dermi- now Washington township, by Adelia dy, came with him, but the latter B. Smith, of Scott county, to Edwin H. Lansing, of Wyoming county, N. This log house of Dennis Connors' Y., for \$1000. The third deed recordwas located near the highway, a few ed is of still earlier date, namely, Feb. rods south of the creek, and for two 4, 1859. It is the deed of Isaac P. successive seasons it was used as a Coats and Laura S. Coats, his wife, of Scott county, to Adelia B. Smith, of taught school in this building was the same place, for eighty acres on Lizard settlement and then Clerk of It will be perceived that the last two was Miss Fannie Haire, now Mrs. and only the first one was between actual settlers; it may have been for

Philip Russell was a native of Ireland, came to America in 1850 and to Webster county in 1854, where he located near Fort Dodge for two years. The Russell family consisted of himself, his mother, two sisters Catherine and Mary, and one brother, John. While residing at this place Philip Michael O'Connors, (no relative) who came to Pocahontas county and located as his claim the W<sup>1</sup>/<sub>2</sub> NW<sup>1</sup>/<sub>4</sub> and the latter, held it until the time of W\(\frac{1}{2}\) SW\(\frac{1}{2}\) Sec. 2, (T. 90, R. 31,) Lizard her decease, in 1884, since which date township, embracing 160 acres. In their son Michael O'Connors has con- 1856, the family moved upon it and the work of improvement was begun.

29, 1858, and the patent for it was is- March (1865) Mr. Hait resigned the sued Sept. 5, 1861. In August, 1860, he married Ellen, a sister of Michael Broderick and of Mrs. John Calligan, then residing at Fort Dodge.

other claim, namely, for the E1 NE1 Sec. 10, (90-31) eighty acres, and on April 27, 1871, this entry was renewed for the NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub>, 40 acres, of the same section, and the patent for this last tract was issued Sept. 25, 1872. At the time of his decease, at the old pioneer home in 1893, at the age of seventy, he was the owner of 360 acres of land on sections 2, 3 and 10, Lizard township, all of which, except 80 acres, are still in the possession of the family.

Mr. Russell was a man of unblemished integrity and was held in high esteem by all who knew him. He received a good common education and was the first one in the Lizard settlement to engage in teaching school, he teaching the first term in the log cabin erected by Dennis Connors, in the winter of 1863-4. He also taught several terms in other districts. He was a good penman and accountant, and wherever there was need for a scribe his services were in demand.

He was one of the first justices of the peace in Lizard township, and served as clerk for the township sixteen years, while his two sons, John M. and Michael J., served six years afterward, making twenty-two years that that office has been held in his family.

During the four years from 1862 to 1865, he had the honor to serve as Clerk of the District Court of Pocahontas county, the county seat at that time being in Des Moines township. The last year of service thus rendered was by appointment, first on the part of the office and appointed Mr. Russell a northwest of this grove, and three of deputy to take charge of it, and later them visited the Brockschink home.

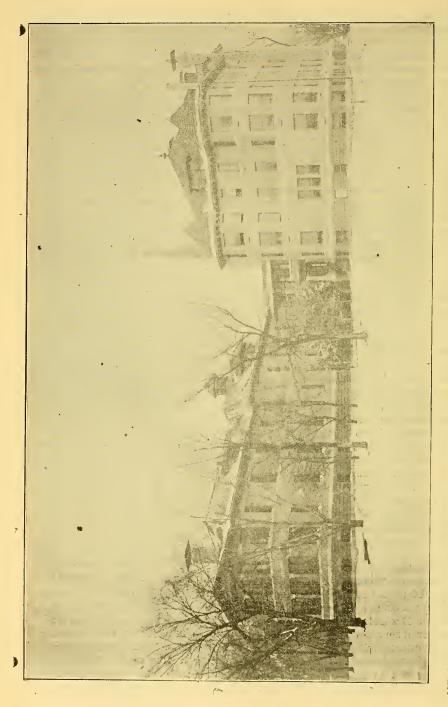
His claim was entered for record May by the Board of Supervisors when in office in his favor. During the next two years 1866-67, he was a member of the Board of County Supervisors.

His wife at the age of sixty-two On April 22, 1866, he entered an- years survives him and occupies the old home on Sec. 2. Their family consisted of eight children, seven of whom are living, and several of them have earned well merited eminence as teachers in the public schools of the county. The family is represented in the Lizard township group by the portrait of Michael J. Russell, the sixth in the order of birth.

John W. Russell, Philip's brother, also located in Pocahontas county. He selected as a pre-emption the SE<sup>1</sup> Sec. 34 (91–31), Lake township, 160 acres, making the entry June 7, 1858, and receiving the patent for it Sept. 5, 1861. He enlisted in the war of the rebellion, August 14, 1862, as a member of Co. I, 32d Iowa infantry. After his return from the war he died unmarried.

Henry Caspar Brockschink and wife, coming to Pocahontas county in the spring of 1856, laid claim to the SW1 Sec. 36, 91-31, 160 acres, which he entered for record July 8, 1856. This was the first entry of lands in Lake township, and it was made nearly two years before any other entry was The house of Mr. Brockschink was of course the first one in the township. It was built of logs from the native timber along the north branch of Lizard creek. It was 20x24 feet and about 18 feet in height. For several years this was the most northern home in the Lizard settlement.

In the fall of 1857, his two brothers Frederick and William Brockschink came and made their home with Henry and his family. In the following spring a band of Sioux Indians camped W. H. Hait, who had been elected to along Lizard lake about three miles



MEDICAL HOSPITAL OF THE STATE UNIVERSITY, IOWA CITY. -It contains seventy-five beds and a large amphitheater for clinical purposes,

and then ran away with it.

next year the decisive vote that re- bered that it represented the salary sulted in the erection of the first of the County Judge for an entire county court house in the Des Moines, year, at that period in the history of instead of the Lizard, settlement. this county. Forey and family occupied it six years, and in 1865, Dennis Mulholland bought it from Henry Brockschink for \$1500, and moving upon it that year this property has been owned and occupied by the Mulholland family since that date. The Brockschinks went first to Clay county and afterward to Webster City, where they now reside.

Owen McCabe and James Donahoe Iowa to the Dubuque and Sioux City, and family. Patrick McCabe located (now Illinois Central) Railway Comon Sec. 24, 90-31, (Lizard township,) pany. Having erected improvements 1864, he entered the NE<sub>4</sub> SE<sub>4</sub>, 40 acres and in 1863 moved to Johnson townof this section and renewing this ap-ship, Webster county, where he still plication May 10, 1870, received the resides, at the age of 85 years. patent for it Sept. 10th following. Owen McCabe, remained but a short two girls. time in this county.

Mr. Brockschink was absent at the Collins, the first county supervisor time, but his brother Fred and George from the Lizard district, was chosen Rifenstahl, who had been hunting, county treasurer, Patrick McCabe was returned in time to meet them on the elected his successor on the Board of premises. After some parleying be- County Supervisors and was continued tween the two young men and the In- a member of that Board for four years, dians, one of the latter grabbed the 1862 to 1865. After the county canvass unloaded gun in the hand of Fred of the votes cast at the general elec-Brockschink, wrested it from him tion of 1863, he was appointed to represent the Board of this county in the The Brockschinks remained on this canvass of the vote for senator in this. farm until the fall of 1858, when the 43d district, at Sac City, and for they leased it to Patrick Forey, who this service received \$50.00. To apfamous for casting the preciate this fee it must be remem-

James Donahoe arrived in 1856 and located with a family consisting of himself and wife—Ann Garrahan and five children, on the SE4 Sec. 23, 90-31, (Lizard township,) with the intention of pre-empting it, but when, after the lapse of two years, he went to the U.S. land office at Fort Dodge to enter his claim for record, he was surprised to find that the entire sec-In the fall of 1856, Patrick McCabe tion on which he was living belonged arrived, accompanied by his brother to the grant made by the State of but did not enter his claim for record upon this land he continued to occufor a number of years. On Sept. 23, py and enjoy them five years longer,

While living on this supposed pre-Later he obtained 120 acres addition- emption claim, a daughter, Rose Ann al in the south half of this section, Donahoe, was born, Feb. 23, 1857, and and on this farm he continued to re- she was the first white child born in side as long as he lived. It is now Pocahontas county. Her portrait owned and occupied by his two sons, may be seen in the Lizard township Peter and James J. McCabe, between group. In the year 1892, she became whom it has been divided, and his the wife of Patrick J. Crilly. They wife who still survives him, makes reside at Clare and have a family of her home with them. His brother, five bright children—three boys and

Thomas Donahoe, James' eldest son, In the fall of 1861, when Michael is cashier of the State Bank of Clare, a resident of Sec. 36, Lizard township, where he owns a half-section of land. The latter married first Miss Ellen Condon, who, in the fall of 1860, taught the first public school in the Lizard settlement, in a log house built by Patrick Collins at the southwest corner of the SE1 of Sec. 13 and commonly called the "Pioneer School House." Mr. Donahoe (Peter M.) was one of the pupils that attended this first term of school in the south part of the county taught by Miss Condon, who later became his wife. After her decease in May, 1879, he was married to Annie Carey. Two of the elder children who came with James Donahoe to Pocahontas county in 1856, namely, Charles and Mary, died during the seven years' residence of the family on section 25, and his wife died in 1895.

With James Donahoe and family there came also his wife's parents, namely, Peter Garrahan and his wife Rose Reilly, both born and married in Ireland, who, coming to this country in 1846, resided ten years in Pennsylvania. Mr. Garrahan died in Pocahontas county about the year 1859, at the age of 56 years, and his wife in Webster county in 1877, at the age of 73 years.

Michael Walsh came to this county in September, 1856, and located a preemption claim on Sec. 14, 90-31, (Lizard township,) that he has continued to own and occupy until the present time, a period of nearly forty-three years. On June 8, 1858, he filed his claim for the NE‡ SE‡ of Sec. 14, 40 acres, and received the patent for it July 10, 1861; and on April 24, 1865, he filed a homestead claim to the SE‡, SE‡ of the same section, 40 acres, and renewing this claim May 3, 1870, received the patent for it September 10th following.

His family began to live upon his pre-emption claim in the spring of

and Peter M. Donahoe his brother, is 1857, and his daughter Mary, born a resident of Sec. 36, Lizard township, April 10, 1858, was the fourth child where he owns a half-section of land. born in this county. For a number of The latter married first Miss Ellen years she has been one of the leading Condon, who, in the fall of 1860, teachers of Lizard township.

Mr. Walsh has not been ambitious for political honors either in the county or his own township, but has endeavored to prove himself an aggressive farmer and afford to his family, not merely their share of the comforts of life, but also the best facilities for their moral and intellectual improvement. When the first fields were enclosed in the Lizard settlement in the year 1867, Michael Walsh was among the number of those who had one enclosed, the others being Michael Collins, Charles Kelley, John Calligan and Michael Broderick. And when in 1870, two quarter sections were enclosed, Michael Walsh had the first one and Hugh Collins the other. The cost of the wire at that time was \$8.00 a hundred. Among the old settlers of the Lizard settlement he has been considered the most careful and economical as a farmer and has acquired considerable wealth by the honest toil of himself and family. He is now the owner of 160 acres and his son William J. Walsh is the owner of 240 acres, making 400 acres in possession of the family at present and all of it is located on sections 11 and 14, Lizard township.

His home was along the trail from Fort Dodge through Lizard, Lincoln and Swan Lake townships to Spencer, and for a number of years he kept an inn for the entertainment of travelers and hunters. He and his estimable wife were hospitable entertainers, and many a weary traveler "bid to stay," whiled the long evening away at this ancient hostelry, either listening to or relating some interesting incident that occurred in the early days.

1857.

During the year 1857, there arrived

Thomas Crole, Patrick Collins and his others.

1865, entered it as a homestead claim. This claim was renewed May 3, 1870, land farm. He then bought and moved and he received the patent for it Sept. 10th following. In 1871, after fourcounty and now resides at Clare. His homestead was owned for a while by by their daughter, Mary Condon.

of the county in 1859, was the first the Brockschink farm. In ment were assessed and voted as a part of Webster county, to which they were temporarily attached for revenue and judicial purposes. The assessment of the Lizard settlement in 1859 was made by W. H. Hait and in 1860 by Oscar Slosson, both of whom were residents of the settlement in the northeast part of the county, the county at this date being included in one township. Later that same year, Lizard township was constituted and in 1861, John Quinlan became its first assessor and for five successive years, 1861 to 1865, he performed the functions of that office.

the families of John Quinlan, Michael Webster, and the year following to Donovan, Patrick Forey, Thomas El- Pocahontas county. His homestead lis, James Gorman, Patrick McLarney, contained 100 acres, and entering claim for record June 1858, he received the patent for John Quinlan located his family on it March 15, 1860. During the six the St NWt Sec. 24, 90-31, (Lizard years 1858 to 1864, he rented and lived township,) 80 acres, and on April 29, on the SW1 of the same section, known as the Brockschink or Mulholupon the NE<sup>1</sup> Sec. 2, Lizard township, (the Michael Broderick farm) teen years' residence on this home- where the family remained for twenty stead, he sold it, moved to Webster years. On the frontier in those days there was an apparent necessity that every home should be open for the William Condon and after his decease entertainment of the wayfarer, and by his wife Margaret, and at present Mr. Forey endeavored to combine the public entertainment of travelers Mr. Quinlan, after the organization with farming while he lived upon one of the Lizard settlers to make the moved to Pocahontas and for two assessment of Lizard township. Pre- years kept hotel in what is now known vious to the organization of the coun- as the "Ozark Flats." In 1887 he ty, all residents of the Lizard settle-moved to Lake township and in 1891 died there in his 81st year. His wife Eliza Quinn, daughter of James Quinn, Esq., of Kildare county, Ireland, survives him and resides in her own home at Pocahontas, at the age of 77 years.

Mr. Forey was a brilliant conversationalist and possessed that warm heart and ready wit for which the people of his native country have been noted. He was the first republican who located in the Lizard settlement and for several years was the only one in it. He was very enthusiastic in defending and advocating his political views, and at the special election held November 15, 1859, to determine Patrick Forey, who in 1857 located whether or not the voters of Pocahonwith his family on the E<sub>2</sub> SE<sub>4</sub> Sec. 36, tas county would approve the pro-91-31 (Lake township), was a native posed contract of the County Judge of Galway county, Ireland, and came for the erection of a court house in to the United States in 1835. In 1846 Des Moines township and a bridge he in company with his nephew, over the Des Moines river near it, Thomas Burke, established and dur- both payable in the swamp and overing the next ten years managed a flowed lands of the county, he is said wholesale feed and provision store in to have cast the decisive vote and St. Louis, Mo. In 1856 he came to thus became Lizard's "famous politician."

The tradition concerning this interesting incident is as follows. It was perceived by those interested, that there were just twenty-one votes in the county at that time, of which ten were in the Des Moines and eleven in the Lizard settlement. All in the Des Moines settlement were united and very earnest in their desire to have the public building and bridge provided for in the contract. But as the time of the election drew near, those in the Lizard settlement perceiving the great advantage these public improvements would be to their friends in the north part of the county and remembering that their own settlement was the oldest and therefore justly entitled to them, concontract, indulging the hope that by next year and located on another subject of special interest to both them.

This election was held in the home of William Jarvis, in the Des Moines precinct, and it is said that, having been thwarted in several direct attempts to vote, during the latter part of the day, moving backward inadvertently, he got close enough to the ballot-box to hand in his ballot without observation on the part of his political opponents, and thus gave the

measure voted for a majority of one vote.

In 1856, when Patrick Forey arrived in Webster county, he selected as a pre-emption claim the NW1 Sec. 20, Jackson township, 160 acres, and erected upon it a frame house, for which he drew the lumber from Border Plains, about twelve miles southeast of Fort Dodge. This house was located in the Lizard settlement, about one mile east of the Pocahontas county line, and while Mr. Forey occupied it, Father McCulloch, of Fort Dodge, began to celebrate mass in it once a month. This home thus became the place where the first religious services were held in the Lizard settlement.

As his title to this land was discluded not to approve the proposed puted, Mr. Forey abandoned it the some subsequent arrangement the claim on section 36, Lake township. public building might be erected on After securing the patent for this the farm of Charles Kelley, on Sec. 12, claim he sold it to Charles Kelley. Lizard township. Inasmuch as Mr. While he lived on the adjoining or Forey's home was the furthest north Brockschink farm, where he kept in the Lizard settlement and also be- hotel, his nearest neighbors on the cause of the fact he held different po- north were distant twelve miles, on litical views from the rest of them in the east thirteen miles and on the that settlement, his vote became the west, at Sioux Rapids, forty miles.

At the time of the massacre of the parties. The Des Moines people felt settlers at New Ulm, Minnesota, by their need of it and expressed their the Indians in 1862,\* the county seat desire he would vote with them, while of Buena Vista county was at Sioux those in the Lizard settlement find- Rapids. When all the settlers fled ing he was not likely to vote with from that vicinity, Messrs. Moore and them, delegated one of their number Jameson, two of the public officers of to challenge his vote and, if possible, Buena Vista county, carried with prevent him from casting it against them the records and seals of that county until they reached the home of Patrick Forey, on the Brockschink farm. Presenting Mr. Forey with a carbine they requested him to keep these public records until they should be called for, and then passed on farther east. They did not call for them until the lapse of three weeks, when they returned and carried them back to Sioux Rapids. About the

<sup>\*</sup>Page 42.

year 1860, Mr. Forey had traded for 1868. an 80 acre farm near Sioux Rapids, intending to make it his home, but afterward sold it to Wm. S. Lee, one of the Buena Vista county officers at this time. The fact that the public records were entrusted to his personal care at this time of danger, was no no doubt due to the acquaintance formed through these transactions.

In 1860, Patrick Forey was drawn as one of the first jurors in the county, the others from the Lizard settlement being James Donahoe and Roger Collins.

At the first election held in Clinton township, in the fall of 1860, he was one of the judges of the election board and, being chosen at that time one of the first trustees of that township, held that office for four years. After he moved with his family to Lizard township, his son, Patrick J. Forey, served as a justice of the peace eight successive years, 1875 to 1882.

Patrick McLarney, who in 1857 married Ellen, a sister of Walter Ford, occupied the latter's claim in Lizard township in 1858. He continued in the county until about the year 1865. He was chosen secretary of the school Board of Lizard township when it was first organized in 1860, and served as clerk for the township nearly three years during the period of 1862 to 1864.

James Gorman pre-empted the  $S_{\frac{1}{2}}$   $SE_{\frac{1}{4}}$  and  $S_{\frac{1}{2}}$   $SW_{\frac{1}{4}}$  of Sec. 12, 90-31, (Lizard township) 160 acres, making the entry June 11, 1858, and receiving the patent for it April 10, 1860.

Michael, in the fall of 1857, with a townships, was approved by the Dechildren—one son and two daughters— 1858. The early settlers were natulocated on the  $NE_4^4 SE_4^4$  and  $NE_4^4 SW_4^4$  rally attracted to the vicinity of the Sec. 12, 90-31 (Lizard township) eighty proposed routes of these railways, but tiled June 6, 1863 and renewed July 1, Those who had located claims on these

1858.

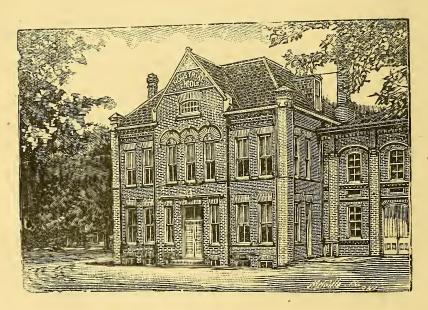
During the year 1858, a few more settlers came to the Lizard settlement among whom were Thomas Crowell, Mrs. Bridget Vahey (Sec. 13), Thomas Quinlan (Sec. 2), Thomas Prendergast (Sec. 4), and possibly a few others; but they remained only for a short time in the settlement. After this there were but very few, if any additional settlements made in the south part of the county, until after the close of the war.

## EMBARRASSING EVENTS.

Two events had occurred that for a few years made the situation and circumstances of those who were on the frontier in this section embarrassing and tended to check further immigration. The first was the grant of a title to every alternate or odd numbered section of the vacant and unappropriated lands, for six sections in width on each side of certain lines of railway that proposed to cross the state of Iowa at that time. The act of congress making these grants to the state of Iowa, was approved May 15, 1856, and the General Assembly of Iowa accepted and appropriated these lands to the several railroads to be built across the state in an act that was approved July 14, 1856. Their title to these lands on the part of the Dubuque and Pacific (now Ill. Central) railway having been certified by the U. S. land office at Fort Dodge for the east three tiers of townships of Pocahontas county, and by the land office Patrick Collins, an elder brother of at Sioux City for the west tier of family consisting of wife and three partment of the Interior, Dec. 27, The patent for this homestead these grants of the alternate sections was issued to Patrick Collins, Jr., within six miles of the proposed road, Sept. 1, 1869, the claim having been affected many of them quite seriously. sections were limited to 80 instead of close of the war. 160 acres, and the government price was increased from \$1.25 to \$2.50 an the lands in Clinton and Lake townacre. The news of these changes did ships were disposed of by the U.S. not circulate in the public press as land office at Fort Dodge, but the they do now, and when they occurred records show that they were purchased,

sections under the U. S. pre-emption sued by private banking institutions, law of Sept. 4, 1841, at \$1.25 an acre, became worthless. So serious was and had not previously filed their the stagnation in business throughout claims for record, now found they had the country that the railway compano claim to their frontier home, and nies, notwithstanding the magnificent many in consequence abandoned them. grants of land received from the state Another result within the six-mile of Iowa, were unable to make any limit was, that from that date all the progress in the construction of their pre-emptions on the even numbered lines across the state until after the

During the year 1858, nearly all of many a settler was taken by surprise. not by actual settlers but by non-Another cause of embarrassment resident investors or speculators. that checked immigration was the These lands were beyond the six-mile financial panic of 1857, when a great limit and were available for purchase part of the money of the country, is- at the nominal price of \$1.25 an acre.



Center Building of Industrial School for the Deaf, Council Bluffs,



WM. H. HAIT, Treasurer and Recorder, 1859–61. Treasurer, 1866–69.



MRS. W. H. HAIT, First Teacher, 1860.

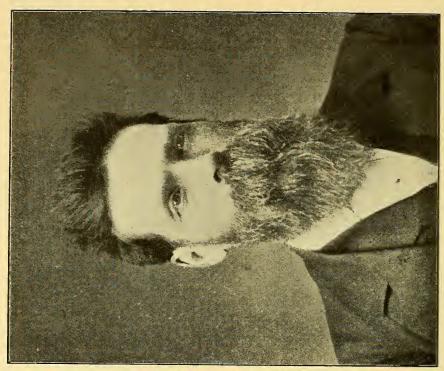


MRS. ROBERT STRUTHERS.



MRS. OSCAR F. AVERY.

DES MOINES TOWNSHIP.





WM. D. McEWEN. (In 1874.)

ROBERT STRUTHERS, SURVEYOR, 1860-69; REPRESENTATIVE, 1872-73.

# VI.

# FIRST SETTLEMENTS IN THE NORTHEAST PART OF THE COUNTY.

'Tis well to sing the merited word of praise, Of heroes in fierce martial strife; But heroes, too, are they who raise The standard of a nobler life, Therefore we hail the pioneer, Whose strong arm helped to found a state, As one whose name we may revere, And hold in common with the great.

-A. R. Fulton.

#### THE DES MOINES SETTLEMENT.



HE first settlements settlers.

in the north part of the

Dodge with an ox team and selected homes.

At this date there were no settlers in this county, except the few already claim on section 36, in what is now of the county only for a short time. Des Moines township, and had built a shanty on the line between them; and the southeast quarter of section 2, A. J. E. Craig had built a little cabin on H. Malcolm the NW<sup>1</sup>4, Guernsey another claim located on section 26. Smith the NE1 of the same section boldt county, were the nearest actual of a shanty, into which he moved with

Concerning the three men named county were above who built the first two shanties made in what is now in the Des Moines settlement, it may Des Moines township be observed that Craig did not enter and in the year 1857. his claim for record, but James Smith. In May of that year a party of pio- who on June 11, 1858, entered for recneers, consisting of Robert Struthers, ord his claim for lots 3 and 4, contain-W. H. Hait, A. H. Malcolm and ing 77 acres on section 36, received the Guernsey Smith, came from Fort first patent issued to anyone in Des Moines township, and D. W. Hunt, who seems to have made his entry January 2, 1858, and renewed it July 2, following, for lots 5 and 6 and the named who during the previous N 1 NE 1 Sec. 36, 93-31, 141 acres, reyear, had located in the Lizard settle- ceived the second patent, issued Aug. ment. Daniel W. Hunt and James 15, 1860. These men, Messrs. James Smith had each selected a pre-emption Smith and D. W. Hunt, were residents

In selecting claims, Mr. Hait chose But none of these persons were occu- and Robert Struthers the NE4 Sec. 12. pying their claims at this time. Ben- Mr. Struthers during the summer jamin Evans and a trapper by the secured the breaking of considerable name of Weeks, both living in Hum- prairie and the next year the erection

erecting their shanties, began to oc- place the price paid was, for shingles, cupy them at once. They were some- \$7.00 a thousand; flooring, \$70.00 and country, having passed through it feet. during the months of March and April of that year, while on the way to and from Spirit Lake, where they went as members of the Relief Expedition from Fort Dodge at the time of the Indian massacre that occurred March 8-11, 1857.\*

During the summer of that same year (1857) a man named Bates, located with his family on section 36. About the same time Samuel N. Harris and Edward Hammond arrived with their families, but both located for a year or two just across the line in Humboldt county.

Only two of those who located in the Des Moines settlement in May, 1857, are still residents of the county, namely, W. H. Hait and A. H. Malcolm.

"Only wild beasts, and men as wild, Were known to this fair valley then, But Nature in her beauty smiled, To greet another race of men.

William H. Hait is at present the owner and occupant of 280 acres on the  $S_{\frac{1}{2}}$  Sec. 26, Des Moines township. He has been the owner of his present farm for forty years and a resident of the township and county for fortytwo years. Only Mr. and Mrs. Michael Walsh, Mrs. Charles Kelley, Mrs. Philip Russell, Mrs. Patrick Forey and M. T. Collins, of the Lizard settlement, and A. H. Malcolm, can tell of a residence in the county so long. The first house Mr. Hait erected on this farm in 1859, was of logs from the native timber and is still in existence as a relic of the past. The large and comfortable house he now occupies was built in 1867, and the

\*Through the courtesy of the editors of the Reveille, Mr. Malcolm's own account of their thrilling experiences on this occasion, may be found on page 35.

his family in December, 1858. Messrs, lumber for it was hauled by teams A. H. Malcolm and Guernsey Smith from Nevada, Story county, at which what familiar with this section of finishing material \$90.00 a thousand

> Mr. Hait is a native of Ulster county, N. Y., where he remained in the home of his parents until he had attained the age of twenty-two years and, after one year spent in Wisconsin, he came to Pocahontas county. In 1868, he married Helen M. Harvey, daughter of Ora and Eliza Harvey, of Clinton township.

> Miss Harvey, who at this date became his wife, had the honor to be the first school teacher in Pocahontas county and was also the first one to teach school in the first schoolhouse erected in the county. Her first term was taught in the log house of Mr. Hait, in the fall of 1860, and when the brick schoolhouse at Old Rolfe was built the year following, she taught the first term in it. Miss Harvey had inherited a high degree of culture and refinement and had received a thorough academic education before coming to the frontier. It was but a natural sequence of these special qualifications that her work was very highly appreciated both by her pupils and patrons. She died December 27, 1887, and her remains were interred at Humboldt, where they lie beside those of her parents and of her only sister, Jennie S., who became the wife of Oscar F. Avery.

> In the early history of this county, Mr. Hait was a leader in thought and action, and throughout his official career proved himself strictly honest and upright, or as another has expressed it, "one of the best men who ever held public office in Pocahontas county."

> At the first election, held March 15, 1859, for the organization of the county, he was elected Treasurer and Recorder of the county and performed

the duties of these two public offices during the first three years of the county's history, 1859 to 1861. During the early part of this period there lived in his home Oscar F. Avery, who on March 20, 1860, was appointed Superintendent of Public Schools, and thus became the first one to serve in that capacity in this county. On May 6, 1861, Mr. Avery having moved to his own farm just across the line in Humboldt county, Mr. Hait was appointed his successor and, as the second incumbent in the county, held the office of county superintendent until April 22, 1862, when he resigned, and Ora Harvey (father of Helen M.) was appointed his successor.

In the fall of 1864, Mr. Hait was elected Clerk of the District Court, appointing Philip Rusbut after sell, the previous incumbent, his deputy, a few months later he resigned the office in his favor. The next fall he was again elected County Treasurer and served in that capacity during the four years, 1866 to 1869, making a period of seven years that he filled that office. At the first election, held March 15, 1859, Mr. Hait was elected township clerk, and on April 19th following, he was appointed Assessor for the township which, during that year for both of these offices, embraced the entire county. On October 12th. the same year, he qualified as a Justice of the Peace. In Des Moines township he has rendered faithful service in all of the various offices, except those of constable and road supervisor. During the period of the war, 1862 to 1864, he served as deputy provost marshal of the 6th congressiondistrict which, extending from Black Hawk on the east and Carroll on the south, embraced thirty-three counties of Northwestern Iowa.

Mr. Hait has been one of those who believe

"We live in deeds, not years; In thoughts, not breaths; And he lives most who thinks most, Feels the noblest and acts the best."

Augustus H. Malcolm, who came to this county in 1857 with Mr. Hait and others, is now the owner and occupant of the SE‡ Sec. 1, Clinton township. On Sept. 9, 1859, he entered his pre-emption claim for lots 8 and 9, and SW‡ NW‡ Sec. 2, 93–31, (Des Moines township) 149 acres, receiving the patent for it Nov. 1, 1860. On these same dates his neighbor and friend, Guernsey Smith, entered and received the patent for lots 5 and 7, and SW‡ NE‡, 149 acres, of the same section.

On September 14, 1861, Mr. Malcolm married Mary A. Townsend, whose mother lived south of Fort Dodge. On August 23d, previous, he had enlisted at Old Rolfe, and a few days after his marriage he went to the army. At the time he was mustered in at Dubuque, Sept. 20, (1861) he was appointed Corporal, and later, Sergeant of Co. A, 11th Reg. of Penn. Volunteer Cavalry, under command of Col. Samuel P. Spear, which formed a part of the 18th Corps of the Army of the Potomac, under Gen. McClellan. He continued in the military service of his country three years, or until Sept. 20, 1864, and participated in more than a dozen battles.

Mr. Malcolm took an active part in the organization of this county in 1859, and at the first election was chosen Clerk of the District Court, but did not qualify. On May 6, 1861, at the third session of the Board of County Supervisors, he was appointed Clerk of the Board and served in that capacity until September 2d, following, when he went to the army. After his return he was elected and served as Clerk of the District Court of Pocahontas county during the year 1866. He served five years as Clerk of Clinton township, and during 1869 and 1870 was a member of the Board of County Supervisors. Ora P. Malcolm, his years, 1894 to 1897.

During his absence in the army his wife went to his friends in New York state, and after his discharge they spent one year in Ohio. Making the journey from Ohio to Old Rolfe by team in the fall of 1865, they located on their present farm on section 1, Clinton township. They have raised a family of seven children, all of whom but two, have gone forth from homes of their own. Mr. Malcolm has rendered honorable and faithful service to his country, both in the time of war and peace; and he has lived to see the desolate wilderness traversed by and others with unspeakable hardships in the spring of 1857, transformed into a beautiful Eden, with fruitful fields conveniently connected ways and dotted with numerous rapthousands of comfortable homes.

"What hath he seen of change—this aged one-As days unfolded and the years swept on? First the prairie schooners On emigration's trail. Then rough-hewn huts of settlers Besprinkling hill and dale; The felling and the clearing, The stretch of smiling farms; The tilling and the sowing, The gathering into barns The schooling of the children, The rising of church spires, And the smoke of many fires."

Robert Struthers, who in May, 1857, selected a pre-emption claim on Sec. 12, 93-31, (Des Moines township) was a native of Glasgow, Scotland, where he was born, Dec. 26, 1829. In April, 1831, he came with his parents to Chat eau gay' (Shat-o-gay') county, in the Province of Quebec, Canada, where on March 19, 1853, he married Susan The amount of baggage carried free

eldest son, is at present and for several McEwen, a sister of Wm. D. McEwen, years has been deputy Treasurer, and Esq. Their home at this time was in Fred A. Malcolm, the second, was a timber country, fifty miles south-County Surveyor during the four west of Montreal. Here his mother, Ellen Watson, died when he was seven years of age, and his father, Andrew Struthers, in June, 1858; their family having consisted of four sons—Robert, who was the eldest; James, who located near West Bend, after seven years spent in Australia; Andrew, who went to Nebraska, and William, who also became a resident of Des Moines township, this county.

Robert Struthers, during the first the parental roof to found comfortable three years after his marriage was engaged in building railroad bridges in the Province of Ontario. At this period, which was but a few years before the outbreak of the war of the rebellion, and about as many subsequent to the transition from a territorial to a state government in Iowa, the attention of those seeking new homes was directed to the rich and with a network of magnificent rail- fertile but unoccupied prairies of this newly organized state. When the idly growing towns and cities, and tide of emigration had reached the north central part of the state, Mr. and Mrs. Struthers decided to leave the associations of home and kindred and seek their fortunes as pioneers of this new and as they verily believed "better country." Accordingly, in January, 1857, they came to the United States and began the journey to their frontier home in the West, intending to proceed direct to Fort Dodge; but owing to the severity of the winter and unusual drifts of snow, they stopped at Aurora, Ill., until the month of April, and then leaving there his wife and one child-William E.—Mr. Struthers passed to Dubuque (the terminus of the Illinois Central) by rail, and from thence to Fort Dodge by stage, paying for the latter form of transportation at the rate of seven cents a mile for the first 100 miles and nine cents for the second 100 miles.