

Egypt's Great Dam at Assouan, Which is to Be Raised Fifteen Feet.

# (Special Correspondence of the Deseret News by Frank G. Carpenter.)

way through the descrit valley, in which it has built up Egypt, marrowing and widening, until a few miles below "ario, where it divides into two great has and flows off into the Mediter-

### THE NILE FLOOD.

THE NILE FLOOD. The volume of the Nile is enormous. At flood times, here at Assouan, L000,-monous of water go by every day. The river then rises 25 feet at Cairo, is feet at Old Thebes, and almost 50 even at the first categord, where I now am. There is so much water then that to dam could hold it, and all of these areat works have to be made so that the water can be lot in and out and allowed to pass through at will. It is at flood time that the Nile val-ley gets its rich feed of Abyssinlan. The volume of the Nile is enormous, t flood times, here at Assouan, 1000, food tons of water go by every day, feet at Old Thebes, and almost 50 at at the first catagact, where I now i. There is so much water then that a dam could hold it, and all of these reat works have to be made so that is water can be lot in and out and howed to pass through at will. It is at flood time that the Nile val-y gets its rich feed of Abyssinian

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(HE NILE IN HARNES.)

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land becomes wormy and the crops are often sown too late. The red water, or that containing the silt, is allowed to stand on the land just about 40 days, During this time it drops a great deal of mediment and furnishes enough moisture for the crops.

## EGYPT IN FLOOD TIMES.

The Association data is one of the wonders of modern Egypt. It is in full sight of me as I sit here on the left bank of the Nile, with the desert at my back. It looks like a great stone via-duct crossing the rocky bed of the river joining the stony hills which wail the Nile on both sides and holding back a portion of its mighty waters. It is a great granite wall, so feet wide at the bottom and 26 feet wide at the top, rising 120 feet above the bed of the liver, being a mile and a ourrier in river, being a mile and a quarter in

How Egypt is Watered-The Nile Floods and Their Load of Abyssinian Mud-A Vast System of Basins Which Have to be Filled and Drained-What the Assouan Dam Does-How It is Built-Its Mighty Force Equal to Two Million Horses, and How A Child Could Operate It-A Look at the Sluice Gates-It has Added One-Fourth More Land to Egypt and has Made the People Rich.



# "I CROSSED THE DAM ON A CAR."

THE ASSOUAN DAM.

Photographed for the Descret News.

fuses. If the Nile gets too high it sometimes overflows into the villages and the mud huis crumble. During the flood the people go about in boats from village to village. The denkeys, buf-falces and builocks live on the dikes, at no also the goats sheep and camels. The people saw their crops as soon as the floods subside. Harvest comes on within a few months, and without they have some means of irrigation, outside the Nile floods, they must wait until the following year before they can plant again. If they can have a dam like this at Assouan the Nile can be kept high throughout the year and they can grow crops all the year round. This is already the condition in a great part of the data, and it is aimed to extend it to the farms of upper Egypt. THE ASSOUAN DAM. If the Nile gets too high it length. There is now a roadway guardlength. There is now a routiway guard-ed by walls on its top, and there is a little car line, the wagons of which are pushed by men, which runs over it, from one side to the other. The dam serves as a bridge as well, and donkeys, camels and men are allowed to pass over it from bank to bank. I crossed on the car at a cost of 25 cents, my motive power being two Arab boys who came behind on the trot. HOW THE DAM IS BUILT

As I came over I stopped from time The time to examine or great blocks of the first of and the prior of water all automore through the period at rough at the time as the blocks are fitted so closely that the blocks are fitted so closely that the completion of where the great field and three States to block are fitted so closely that the second the source of the block are fitted so closely that the second the source the great field and three States to block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the source of the block are fitted so closely that the second the block are fitted so closely that the source of the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the fitted so closely that the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the fitted so the source of the block are to block the source to block the fitted so the source of the block are to block the fitted so the source of the block the source fitted so the source of the block the source fitted so the source of the block the source fitted so the source of the block the fitted so the source of the block the source of the block the fitted so the source of the block the source fitted so the source of the block the source fitted so the block the fitted so the source of the block the fitted so the block the source of the blo to time to examine the construction The dam is made of great blocks

A SLANDERED CROWN PRINCE For some time Prince

> as one of the must degenerate roya youngsters-he is not yet twenty-in Europe. He has recently paid his first visit to England, and, according

There are 180 of these sinice gates in the dam, each of which has steel doors that can be called and lowered to allow the whole river to flow through of to hold back as much or as little as the cagineers will. The dam is thus a great time and pieced by these gates are all pieced by these gates the dam, but always through the gates are the unver flows over the top of the dam, but always through the gates are closed during the dry senson from the cannel at one side. When the gates are closed during the dry senson from the cannel at one gates to form a lake 140 miles long, and this is let out as acceded to supplement the ordinary flow of the river all summer through. The order to apprettive the strength when the crestroit is roll the water the promises weight it supports, when the crestroit is roll the water the promoties to almost a quarter of a tri-bing gallons, it contains 23,000 million of the scientific gates of the weight is a head by the scients of a tri-bing gallons. It contains 23,000 million of the scientific gates of the scients of the part of the scientific gates of the scient of the scientific gates of the scient by the gallons. It contains 1900 million of the scientific gates of the scient billion of the scient billion of the scientific gates of the scient billion of the scient billion of the scientific gates of the scient billion of the scient billion of the scient billion of the scientific gates of the scientific

SCENE BELOW THE DAM.

ght cars at 100 tons to the cur, it delicacy It take is million cars to carry U. marks If each car were 40 feet long the - It is a would reach 80 thousand milles, or - precar third of the distance from here to

<sup>6</sup> mean, There is water enough in the reser-if to give all the families of the Unit-i States all they would use for six or ght months, and enough to supply one formula. If the water were loaded or we wagning much team being whith of eight feet and a length

GREATER THAN THE PYRAMIDS Talk about the Pyramids! The

It has added by the governmerth \$5,000,000 means the data 15 feet. This will als water stored and doubl the benefit to Egypt.

A WONDER OF MECHANICS. A WONDER OF MECHANN'S The Associan dam is more wonderful than the Pyramids in his mechanical construction. Old Cheops is built on the edge of the densition a solid stone platform, and it is fifthe more than the plifting of one stone upon another. For the Associan dum a trench a hundred fort wide and a hundred test deep had to be excervated in the granits rock; It had to be bedded with concreted rub-ble, and it was upon such a substruc-

to be exceeded in the granite rock, it had to be bedded with constrated rub-ble, and it was upon such a substruc-tury that the masonry was raised. This dam itself contains more than a roll-lion tons of granite and about 15,000 tons of steel, and the calculations of stone and steel will hold back. They know the exact weight of the river at very hour of the day, and they have to egraphic reports which tell they and they know to a tan just how much its of the farms. They even state a tok force of the sun on the water Lower Egypt is using, so that they even day. When the reservoir is full Old Sol takes a million and a fast and sun surprised at the wonderful fa-sure and an surprised at the wonderful fa-sure sure the remeans the sure of the dam and an surprised at the wonderful fa-sure sure the very suit for the dam and an surprised at the wonderful fa-sure sure the construct to the crucific action and anti-second the sure result and along the great and a sure surprised at the wonderful fa-sure sure the very prises and the construct in the wonderful fa-sure sure the very suit for the day and an surprised at the wonderful fa-sure sure the surprise of the day and an surprised at the wonderful fa-sure sure the very prise to the day and an surprised at the wonderful fa-ter sure the very preserve the farms of the day and an surprised at the wonderful fa-sure the surprise of the day and an surprised at the wonderful fa-sure the surprise of the day and an surprised at the wonderful fa-sure to be prove to the surprise of the day and an surprised at the wonderful fa-sure sure to prove the surprise and the comparise of the full the surprise of the day and the second the surprise and the surprise of the day and an surprised at the wonderful fa-ters.

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The villa pictured in the cuit in the impiration of a grouch architect, who determined to build a residence which would combine every style of nechla-



lent and maners, in the ast opines possible. It is at New own which contains the famou

