to have had four wheels derived from spindle-whorls, and to first transported effigies of the goddess of fertility.

The diving-cabin, or "submarine traveler," of M. Piatti del Pozzo, which has been used in the Seine and is believed to be suitable for deep sea exploration, is ten feet in diameter and weighs ten tons. It is moved thy three screws and a helm worked by electricity. The cabin, which is entered through a manhole, is claimed to have an air-supply sufficent for 48 hours for four persons, is lighted by electricity, and is provided with levers or hand-spikes for working the shovels, picks, groppling irons, etc., on the outside of the machine. Conical tubes provided with lenses give views of the ground and exterior objects in all directions. Communication with land or a boat can be kept up through a telephone, and even if the cable supporting the apparatus should break, it is only necessary to touch a lever to cause two tanks containing ballast to overturn, when the globe will at once rise to the top of the water.

If the results claimed by Kozlovski, a Russian physician, are confirmed, the electric arc light has an astonishing effect in rheumatism and neuralgia. The patient sits about five feet from the powerful light, the rays of which are screened by cardboard from all parts of the body except the affected region. In three months 38 patients were treated, and recovery was reported in 8 cases of sciatica, in 2 cases out of 4 of neurits, in 14 cases out of 18 of chronic rheumatism, and in 3 cases of lumbago. The exposures last from threefourths of a minute to two minutes, not more than a dozen applications—at intervals of three or four days—being necessary in any case.

The process of crystallization is being studied by Professor Von Schroen, who has taken 2,800 photographs to show the transfer of organic into inorganic matter. It seems that this fact led to a recent sensational and incorrect report that crystals had been found to be organic substances.

Petroleum ether has proved to be adapted for low temperature, thermometers, as it is still in a semi-liquid condition and capable of turther contraction at the temperature of the liquefaction of air-310° below zero Fahr.

## IDAHO JULY REPORT.

Indaho section, climate and orop service, westner bureau, monthly report for July, 1897, D. P. McCallum, section director, Idaho Falls, Idaho.

The month opened with cloudy

and cool weather prevaling generally, frequent showers occurred, being unusually heavy in the northern section, but in other parts of the state consisting principally of light local showers resulting from widely scattered thunderstorms. The latter part of the menth was very dry with an abundance of sunshine and high winds which were detrimental to unirrigated crops, though in the northern section and in parts of the west no special resulted. Light fr ete ocdamage curred in several localities late in the month but no serious injury to crops was reported.

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Grain advanced rapidly and by the end of the month harvest was on in parts of the northern and western ections; in general it may be stated that the crop is good in the northern section, fair in the western and vari-able in the eastern. Owing to long continued drought early to the season ate sown wheat is almost a failure in many places. Potatoes and garden truck in season are generally in satisfactory condition. The first crop of slialfa was out and well secured early in the month, and by the end of the period second crop was in promising condition.

The mean temperature for the State was 64.0 degrees, 7.0 degrees cooler than July of last year. The highest monthly mean temperature was 71.5 degrees at Payette, and the lowest 49 8 et Lake; the highest temperature reaches during the month was 108 degrees at Minidoka on the 25th, and the lowest 27 degrees at Lake, Martin and Swan Valley, the first named on the 17th and the latter on the 19 b, making an absolute range of 81 degrees for the month. The greatest lucal monthly range of temperature was at Minicoka, 78 degrees, and the least at St. Marles, 54 Jegrees.

The average precipitation was 0.75 inch, an excess of .02 inch over July, 1896. The greatest amount was at Murray, 2.43 inches, and the least at Burnelde and Martin, a trace; the greatest amount in eny 24 hour period was 1.84 inches at Blackrook on the The average number of days with .01 inch or more of precipitation was 4.

Average number of clear days 18;

partly cloudy 8, and cloudy 5. Prevailing wind direction southweet; average hourly velocity (from record at Idaho Falle), 12.0 miles; maximum velocity, at Liaho Falle) 50 miles per hour from the southwest, on the 17th.

## WEEKLY CROP BULLETIN.

SALT LAKE CITY, Utab, Aug. 10, 1897.

The copious showers during the past week which were fairly well dis-tributed over the State uid much to improve the condition of the growing and maturing crops. Corn, potatoes and late grain were greatly benefited by the much needed moisturs which oame just in time to save some of these crops from proving a total failure. High winds during the middle of the week did considerable damage prohards by blowing the fruit from the trees. Harvesting grain and bay continues with varying results. In some sections the yield is reported fairly good, while to others much less than the usual average is expected. Pota-toes and ourn are reported in a satisfactory condition, and in some sections promise a better yield than last year. Thrashing has commenced and the cutting of the second crop of lucern to oow in progress. There is a general complaint of the scarcity of water in nearly all districts.

Beaver-Warm with niece showers which were good for all kind of crope; harvest in progress; corn doing well.

Boxelder - Grain harvest about fluished and threshing commenced, yield light; some lucern seed is being harvested; crops light.

Osche-Haying nearly done; second orop of lucern being out; respheries nearly gone; early apples ripe; pota-toes looking nice; corn doing well; grain harvest in progress.

Emery-Weather during week very favorable to crops; the rains were most opportune and came just in time to save most of the crops which were

suffering from the drought.

Davis - Past week favorable for growth of crops and harvesting operatione; wheat about all cut, crop light; second cutting of lucern about com-pleted; corn look well; early fruit about gone; late fruit promising.

Grand—Several abowers during by vegetation. Putatoes promise a better crop than last year.

Garfield-Weather of past week warm with copious showers. Crops growing nicely; grain just beginning to turn; potato orop not very promislog.

Iron-The week has been favorable to some of the growing craps. The heavy wheat is lodged and may be damaged by rust; the second crop of lucern is ready to out and is a better crop than usual. Potatoes recovering from July frost and moy make a crop yet; fruit doing nicely.

Juab-Wheat harvest most over. Second crop of lucern ready to cut; not a very heavy crop. It is to all appearances a potato year, and if water holds out, will be a good crop both in quantity and quality. Early

apples and apricote ripe.

Millaru—Second crop of flucera being out; grain about all out; yield not up to the average; fruit ripening too fast on account of drought and ex-treme heat; water very scarce and insufficient to mature some of the grain; core and potatoes good.
Morgan-Wild hay about all har-

vested in good condition; second orop of lucern about ready to cut; oats and wheat beginning to ripeo; potatoes very promising orop—crops generally pretty fair—squirreis doing considerable demage to grain and potatoes; water boiding out good; ranges geiting

dry.
Piute-The warm showery weather o' past week has been good for growing crope; second crop of lucern commenoting to bloom; grain showing up a good average; wild hay soou ready

Rich-Strong winds have characterized the weather during the past week; beavy showers fell on the 4th and 5th; baying is well advanced and

fall wheat is beginning to ripen.

Bappets — Weather hot with occasional showers; fall wheat being cut, spring wheat ripeuing fast; crops about average in some sections and below average in others owing drought and soarcity of water.

San Juan-Ground very dry and crops are suffering for water; unless rain comes soon crops will ne poor this season; range getting very dry,

but grase good yet.
Sait Like-Past week warm and
sultry with a heavy rain on the 6th
which damaged a vast amount of lucern; harvesting almost over and threshing begun; irrigated grain crops good; dry farm grain a partial failure. Summit—Heavy hall and rainstorm

on 2nd which beat down the grain; streams were swollen over their banks