tremely hot substances upon the stomach.

5. Ingestion of cold food and drinks lessens the bodily temperature, whether it be normal or febrile. 6. Cold fluids lessen the hyperirritability of the stomach.

Cold ingesta raise the tone of the stomach, increase peristalsis, and promote movement of the bowels. Cold food and drinks increase the tendency to cough, according to Uffelmann, by causing reflexly a congestion of the bronchial vessels. Hence, persons with bronchial disease ought not to indulge in cold drinks. It is, however, a common custom to give persons who suffer from plumonary hemorrhage ice to swallow; and, according to the view stated, this would be an injurious practice.

Hot food and drinks stimulate the stomach more dyspepsia. This condition has been observed after the so-called hot water cure. Hot drinks tend to lessen cinchona. bronchial irritation, and this is one cause, possibly, of the success in some cases of the hot water treatment of recommends the following process, which we take from consumption.-Medical Record.

**\_**\_\_\_. Mineral Resources of the United States, 1887. From advance sheets of the volume of Mineral Resources of the United States for 1887, by Prof. David T.

Day, we take the following statistics :

Metallic Products of the United States in 1887.

	Quantity.	Value.
Pig iron, s pot valuelong tons Silver, coining valuetroy ounces Gold, coining valuetroy ounces Copper, value at New York Citypounds Zinc, value at New York Cityshort tons Zinc, value at New York Cityshort tons Guicksilver, value at San Franciscoflasks Alarminum contained in alloys Antimony, value at San Fran- ciscoshort tons Platinum, value (crude) at New York Citytroy ounces	6,417,148 41,269,240 1,596,500 184,670,524 160,700 50,340 33,825 205,556 75 448	\$121,925,800 53,441,300 33,100,000 21,052,440 14,463,000 4,782,300 1,429,000 133.200 74,905 15,500 1,838
Total		\$250,419.283

Non-Metallic Mineral Products of the United States in 1887 (spot values).

	Quantity.	Value.
Bituminous coallong tons Penneylvania anthracite	78 <b>,426</b> ,214 37,578,74 <b>7</b>	\$97,939.656 84,552,181 25,000,000
Lime harrels	46 750 000	23,000,000
Petroleum "	28,249,543	16.949.726
Natural gas		13,582,500
Cementbarrels	6,692,744	5,186,877
Salt	7,831,962	4,093,846
Limestone for iron fluxlong tons	5,377,000	3,226,200
South Carolina phosphate rock	480,558	1,836,818
Zinc white	18,000	1,440,000
Mineral waters gallons sold	8,259,609	1,261,473
Boraxpounds	11,000,000	550,000
Gypsum	95.000	425.000
Manganese ore	34,524	053,844
Now Iorgov mark	600,000	310,000
Puritue	59,500	910,000
Flint "	32,000	185,000
Mice nounde	70,500	142 250
Corundum short tons.	600	108,000
Sulphur"	3.000	100,000
Precions stones	-,	88,600
Crude baryteslong tons	15,000	75,000
Gold quartz, souvenirs, jewelry, etc		75,000
Brominepounds	199,087	61,717
Feldsparlong tons	10,200	56,100
Chrome iron ore "	3,000	40,000
Graphitepounds	416.000	34,000
Fluorspar	5,000	20,000
State, ground as pigmentlong tons	2,000	20,000
Vonat oxide	18,340	18,774
Asphaltum	1,200,000	16,000
Aspustoe	4,000	10,000
Ruile	1,000	4,500 3,000
Total		\$281,637,062

Résumé of the Values of the Metallic and Non-Metallic

11 1001.	
Metals Mineral substances named in the foregoing table	\$250,419,283 281,637.062
Estimated value of mineral products unspecified	\$532,056,345 6,000,000
Grand total	\$538,056,345

taking of cold water lessens the injurious action of ex-[mends the decoction to be made by boiling 100 parts of the bark in water sufficient to yield 200 parts of the The Tarpon or Silver King (Megalops thrissoides). strained liquid and adding 10 parts of brandy. Anpowerful astringent properties of the decoction .--Pharm. Jour.

#### **----**PHOTOGRAPHIC NOTES.

# the glass side with a film of ground glass varnish, then base of skull. after this is perfectly dry rub over it powdered black lead or graphite with a bit of soft kid. Any degree

the sky of the negative may be easily strengthened. Hydroquinone.—According to Leslie J. Montifiore in manufactured very cheaply from coal instead of the United States.

the British Journal of Photography. The faded and yellow print is well washed and then immersed in-

#### No. 1.

#### TONING BATH.

	Distilled water	5000 c.c.
<b>n</b> '	Tungstate of soda	100 grms.
	(Distilled water	400 c. c.
ъ	Chemically pure carbonate of lime	4 grms.
В	Chloride of lime	1 grm.

Mix in a yellow glass bottle and shake well, let it stand twenty-four hours, then filter into another yellow glass bottle, which should be well corked.

lution A 150 c. c. and of solution B, 4 to 8 c. c. Then place the prints one by one into this bath.

About ten minutes is required for toning, especially if the bath is warm.

bath. It is said to give good purple tones.

#### No. 2.

### FIXING BATH.

Solution A ..... Hyposulphite of soda..... 15 grms.

The prints are carefully washed and placed one by one in the fixing bath, where they are left until their yellow color has entirely disappeared, which usually takes from three to five hours. After fixing wash carefully.

How to Tell whether a Sensitive Plate has been Exposed.—It happens sometimes that photographers forget to make a note of their exposures, and are uncertain whether plates have been exposed or not. Professor Karl Klauser, in the Philadelphia Photographer, gives the following simple directions:

Immerse the corner of the plate which you suppose to have received the greatest light, as, for example, the sky in a landscape, slantingly in a strong developer for an inch, or more for larger plates.

After a minute you will know if the plate has been exposed by faint traces of the sky, etc. In that case, proceed to develop your plate in the ordinary manner.

If no image will show, return the plate to the plate holder after having dried off the corner which you had immersed in the developer, with some blotting paper. The plate was not exposed at all, or else under-exposed. If impressed by too short exposure, a second exposure of longer duration will very clearly obliterate the first, especially of landscape work in shady places.

Photographing Interiors.-M. Victor Angerer, a celebrated Viennese operator, had to photograph a salon ,062 in Rothschild's palace. Independently of the difficulty my line, so that we parted company after a close and imported by contrasts between the colors of the hang- protracted intimacy." ings, the furniture, and so on, another condition com-Mineral Substances Produced in the United States plicated the operation. The lens faced two windows in a circular wall, both admitting daylight. One of the windows was directly in front of the lens, and through it could be seen the church of Saint Charles.

M. Angerer solved the problem of producing his negative without solarization, and behold how:

He focused perfectly in full light, then he pasted 116 pounds for each. The tarpon, like others of its black paper over the troublesone window, and he closed the second or lateral one by means of a double tribe, has the advantage also of being good food. W. C. MCINTOSH. other windows in the salon gave the necessary light, Indians Shoot at the Moon. Four thousand blanketed Comanches, Kiowas, Chevfor "a day and a half," after having placed a minute stop ennes, Arapahoe, and Delawares were at the Anakee in the lens. At the end of this time he supposed the plate agency to get their rations when the recent total eclipse of the moon occurred. The savages were greatly exopened the curtains of the lateral window in the circucited. The principal chief ordered them to shoot at lar wall, after which he gave another exposure, but of the "evil thing," and the force of Indians opened fire in the air, keeping up the shooting for upward of an camera. He again capped the lens, and removed the hour, and until they were out of ammunition. When the moon appeared in view after the eclipse, wild whoops went up for what they believed to be their was surprising. There was no trace of solarization, all victory. was perfectly harmonious, and a special charm was \* "Introduction to Fishes," pp. 661-62. given to the photograph by a sharply reproduced view + Extracted from a description (from personal observation) by Mr. W. G. Russell, of Boston. ‡ Described elsewhere as "an O'Shaughnessy knobbed 10-0 hook."

#### [NATURE.]

The genus Megalops belongs to the family Clupeidæ, other writer attributes the anodyne action to the and, among other features, is characterized, according to Dr. Gunther,\* by an oblong compressed body, the presence of a narrow osseous lamella attached to the mandibular symphysis and lying between the halves of the mandible. Further, the latter is prominent, the Blocking Out Negatives.-Mr. T. N. Armstrong, in intermaxillary short, the maxillary forming the lateral the British Journal of Photography, says one of the part of the mouth. There are bands of villiform teeth best ways to block out the sky of a negative is to coat on the jaws, vomer, palatines, pterygoid, tongue, and

The interest in the species above mentioned has been considerably increased of late by the fact that the huge of density is readily obtained, and natural clouds in 1 fish (between 5 and 6 feet in length, and weighing from 90 to 150 pounds) can be caught by rod and line, and I am much indebted to Lady Playfair for giving me all than cold. But after repeated use they lessen the the same journal, hydroquinone, which has lately come the information she had obtained on the subject tonus of the digestive tract, and cause congestion and into prominence as a developer for dry plates, is now through her father and Mr. W. G. Russell, of Boston,

The tarpon (Megalops thrissoides) frequents the At-Restoring Faded Albumen Prints.-H. Zandaureck lantic shores of North America, and is especially found "on the western or Gulf coast of Southern Florida, haunting the shallow bays and creeks inside the bars and keys which stretch along that coast; and the fishes are supposed to enter by the passes from the outer Gulf.†

"In shape the tarpon somewhat resembles the salmon, but, as becomes one of the herring tribe, it is deeper and less rounded, and the head is larger, the scales (cycloid) are thick and large, more than an inch in diameter" (a fine scale sent by Lady Playfair measures  $2\frac{1}{4}$  inches both in antero-posterior and transverse diameter), "and the exposed portion is of a bright silvery hue, indeed it looks as if it had been dipped in For about a sheet of albumenized paper, take of so- silver and burnished; hence the name 'silver king.' I have seen specimens weighing from 50 to 137 pounds, and have heard of none above 150 pounds.

"The tarpon has always been upon the Gulf coast, but was formerly captured, as the sword-fish is, by the It is a good plan to have an excess of gold in the harpoon. In 1885, however, a Mr. Wood undertook successfully to secure the fish by rod and reel.

About 150 have been caught in this manner during the seasons 1885 and 1886, the time being in March and April. perhaps a little earlier in a warm season; after April it is too hot for fishing.

"The fish is caught on the edge of the channels in 15 to 25 feet of water with a bait of (half a) mullet. The rod should be very stiff, not more than 9 feet in length, such as is used for large sea bass, and the line strong, but fine enough to carry 200 to 250 yards on the reel, which must therefore be large and heavy. A snood or gauging of about 3 feet of cod line, copper wire, or chain should be fixed to the hook, ‡ as the dental apparatus of the fish efficiently combines a file and shears, with which even a double cod line may be frayed or worn off, or severed without a sensible strain.

"The tarpon takes the bait lying on the bottom, and moves off, swallowing it, until he is struck, and the moment he feels the hook he is out of the water, perhaps 3 or 6 feet in the air, shaking his head fiercely-as does the black bass-to disengage the hook, and then begins such a fight as, I believe, no other game fish ever shows. It frequently leaps with a clean breach twenty times before the game is over, and so close that it occasionally sends a douche over the boatmen; while in one instance a large one made a run of 100 yards, the whole of which was a succession of frantic leaps and plunges, leaving a wake like that of a steamer. The same fish towed my boat, with three men in it, about two miles, and, after more than an hour's hard fight, ended by three huge leaps out of the water among some mangrove trees, the oysters on the roots of which cut

There is little doubt, from the foregoing remarks, that the splendid sport of tarpon fishing must make it most fascinating. In April, 1887, indeed, a single rod caught nine fish in eleven days, two of them weighing respectively 151 and 149 pounds, and in length 6 feet 4 inches and 6 feet 5 inches. These were taken at Punta Rassa on the western coast of Florida, the total weight of the catch being 1,042 pounds, or an average of about

## Buckthorn in Toothache,

Dr. Gretchinsky has called attention to a practice curtain, which permitted but little light to enter. The which obtains among the peasantry in some parts of Southern Russia of treating toothache with a gargle but M. Angerer pasted white tissue paper over them to of decoction of buckthorn -Rhamus catharticus. He diffuse it. He then exposed in the camera a dry plate states that in order to test the ground for this practice, he made a series of control experiments upon a number of inmates of the local prison who were suffering from to be overexposed, and he capped the lens. He then toothache. The patients were ordered to gargle their mouths with the cooled decoction everythree or five minutes until the pain disappeared, and in every case fifteen seconds only, the same plate being still in the the suffering ceased in about half an hour. though there still remained a vague aching or kind of itching about paper from the front window, then he exposed the same the teeth. A prolonged anodyne effect was produced by plate once more, but for four seconds only. The effect inserting a cotton wool plug steeped in the decoction in the cavity of a hollow tooth. Dr. Gretchinsky considers his experiments proved decoction of buckthorn to be a reliable means for mitigating such dental pain of the church of St. Charles outside the embarassing as depends upon inflammation of the pulp. He recom- window.-British Journal of Photography.