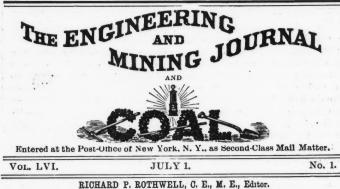


THE ENGINEERING AND MINING JOURNAL.

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THE World's Fair office of the ENGINEERING AND MINING JOURNAL is in the beautiful Montana pavilion in the Mining Building. When it was mentioned to a few exhibitors that the Scientific Publishing Company desired space on the main floor for an exhibit of the ENGINEERING AND MIN-ING JOURNAL, and its other publications relating to the mineral industry, the representatives of the great State of Montana with characteristic hospitality and courtesy offered the choicest place in their magnificent pavilion, the most attractive in the entire fair. Our friends are cordially

STOP the gambling in silver certificates on the Stock Exchange in this city. It is absurd as well as disgraceful that the interests of a great industry should be dependent on the gambling quotations for a few thousand ounces of silver. The total stock represented by these certificates is but 200,000 oz., and yet these wild quotations secured by the "bears" are cited throughout the world as the market price of silver here. Let the Exchange stop this outrage at once.

ONE of the first results of the completion of the Norfolk & Western Railroad to the Ohio River and the opening of a through rail line from southwestern Virginia to the Northwest has been the placing of an important contract for Pocahontas coke, which is hereafter to replace, to some extent at least, the Connellsville product in the extensive works of the Illinois Steel Company. For a long time the coke region of Southwest Pennsylvania has had a practical monopoly of the Western markets, but it is evident that this is at an end, and that the Western mills will have the benefit of competition. The price fixed for Pocahontas coke is not stated.

THE forest fires, which have worked much damage and destruction in the mines of the Vermillion and Mesaba ranges in Minnesota, have practically stopped the shipments of iron ore from those ranges, for a time, while the closing down of the Norrie and other large mines on the Gogebic Range have restricted shipments in that quarter also. For the present, therefore, the iron ore traffic promises to be light, while such shipments as are made from the Lake Superior ports and from Escanaba will be principaly from the stock piles. Receipts at the lower lake ports have been light so far this season and the stocks on hand there are not very heavy. In an ordinary season the effect of this would be to send up the price of iron ore, but in the present condition of affairs there is not likely to be much change in this.

THE success of the test experiments at Sandy Hook with the Justin shells carrying high explosives, introduces a new element into the contest between guns and armor plates. It is true that the Zalinski pneumatic gun has carried such shells, but its range is very limited, and the Zalinski projectile is practically an aerial torpedo which is available only at short distances and under very much the same conditions as the sub marine torpedo. Ordnance officers hitherto have not considered the use of high explosives in a high-powered gun of long range practicable, an opinion which will have to be changed if the further tests of the Justin shell prove as successful as those which have just been made. The armor-plate makers, who after long efforts and experiments have succeeded in producing a plate which will resist the impact of an ordinary shell, will now have to revise their work and study the shattering effect of the high explosives rather than the penetrating power of the shell itself.

ACCORDING to reports from London, negotiations are in progress between the Standard Oil Company on the one hand and the NOBEL and ROTH-SCHILD syndicates on the other for an agreement under which the petroleum markets of the world will be divided and the entire petroleum output of the world may be placed in the hands of a trust composed of the three parties mentioned. Under this agreement it is said the Russian producers will abandon their efforts to introduce the Baku oil into the markets of Germany and western Europe, leaving that field entirely to the Standard Oil Company with its American oil. In return the Standard will withdraw from the Asiatic markets, leaving them entirely to the Russian producers. The agreement further provides, it is said, that the NOBEL syndicate shall supply the Russian market and the ROTHSCHILDS shall have the monopoly of the export of petroleum from Russia. What will be done with the depots which the Russian producers have already established in England is not decided, but it is said to be probable that they will continue in use and that some Russian oil will still continue to be sent to England, but the price in that country will be fixed entirely by the Standard. These arrangements, it is said, were completed at a meeting held recently in Paris, and a further meeting was to be held about July 1st, at which the agreement would be finally executed.

The more recent oil discoveries in Burma. Java, Sumatra and eastern Siberia may affect the operations of this great "trust" hereafter ; but at present they are not sufficiently developed to furnish any considerable supply.

THE STOPPAGE OF SILVER PRODUCTION.

The Western mine and mill owners have acted with that promptness and courage which are characteristic of them. They have closed nearly every silver mine and smelter in this country, and will await the results of the silver slump. This course will in the end be the best, for it will bring a solution of the problem more quickly.

We feel the deepest sympathy for all engaged in this industry as workmen, as owners or investors. We have no illusions on the subject, as our columns have long shown, but we believe that a general appeal to the President to negotiate with foreign governments for an international commission with powers to settle the question on some such lines as proposed in our clearing-house plan would meet with success, and result in an unexampled period of prosperity throughout the world. Without some such international agreement, such a general financial collapse and universal distress as the world never saw seem to be inevitable.

EFFECT OF THE STOPPAGE OF FREE COINAGE IN INDIA ON THE FUTURE OF SILVER.

The stoppage of the free coinage of silver by India. announced on June 26th, is the heaviest blow the white metal has ever received. and promptly brought its market price down to 64 cents per ounce. at which rate the silver in our dollar is worth only 49.5 cents. The Indian Government has established "provisionally," we should say momentarily, a value of 16 pence for the silver rupee, which rate is equivalent to about 204 silver to 1 gold, making it therefore extremely probable that any ratio between the metals to be established hereafter by international agreement will not be above 20 to 1.

The action of the Indian Government will have a very decided, if not conclusive, influence upon some questions in the silver problem.

1st. It renders absolutely certain the repeal of the Sherman Act, and will thus stop the purchases of silver in this country, and this will undoubtedly be followed at an early day by the stoppage of free coinage in the remaining silver basis countries.

2d. It will probably stop at once and for ever the wild advocacy in this country of free silver coinage which, always senseless and infinitely harmful, will now be such transparent folly that no rational man will be found to propose it. To this foolish agitation and the forced purchases of unneeded silver have been due the loss of foreign confidence in our ability to maintain gold payments and the withdrawal of foreign capital which we so much need. No one will pretend for a moment that this country can alone carry the silver of the world and maintain its price.

While India has thus settled the question of free silver coinage and has decided the fate of the Sherman Act, it has not solved the silver problem or made a permanent new ratio between the metals. It has forced not alone 45,000,000 ounces a year which, India took last year, on the aiready greatly overstocked market, but it will start the sales of India's hoarded hundreds of millions, and it has thus given increasing velocity to the downward course of silver prices. Where will these now stop? At 50 cents or 25 cents an ounce? Who can tell? The price is no longer based on cost of production, but only on the necessities or sentiments of sellers on an overstocked market. If the price of siver should decline to 50 cents an ounce, or to the ratio of 41.3 to 1 of gold, how long could or would the Indian Government accept rupees at 16 pence, or on the ratio of 201 to 11

This act has made still more apparent the necessity for an international agreement by which the values of the world's money will be rendered stable or its changes made so gradually as not to interfere with the prosperity, industry or commerce of nations. Let every intelligent man consider this vital question, and use all his influence to induce our Government to propose the appointment of an International Monetary Clearing-House, composed of one or more representatives of each country, to act through the mints of the several countries as depositories, and with power :

1. To ascertain periodically the amount of money, that is, of gold, silver and uncovered notes, held by each country; these amounts to form the basis for the proportions in which the several nations will join in the purchase of all the gold and silver offered in excess of that specifically called for by those wanting the metals.

2. To determine at what ratio the purchases of gold and silver are to be made, and, from time to time, what, if any, change in this value-ratio is called for by the changed conditions of production.

3. To purchase, for common account, such an amount of silver from each of the silver-basis countries as is necessary to put it on the bi-metallhc basis.

4. To issue international certificates, redeemable in gold or silver at holder's option, for the gold and silver purchased.

5. To clear every national transaction in the purchase or sale of money, 6. To publish the transactions of the Monetary Clearing-House daily, weekly or monthly.

It is now estimated that India would require only £15,000,000, or \$75,000,000, to put it on the bimetallic basis.

Should gold ultimately be found to suffice for the monetary needs of the world and to be the most desirable money, as the advocates of a single gold standard contend, then, under the Clearing-House plan, this would be brought about by a gradual reduction in the relative value of silver without panic or disarrangment of the business of the world. If, on the other hand, as some silver advocates claim, the white metal should prove the most desirable standard for money, its sole adoption would come about through this plan without sudden or disastrous change. In every ease the absolute stability of the money of the world would be assured, and the loss from the decline necessitated in the value of either metal would simply require the writing off by each nation (not by the individual holder of the coin or certificate therefor) of a certain amount of its assets in the cheapening metal and increasing by so much its assets in the appreciating metal as the change would involve. If nothing is now done. not only will the value of silver decline enormously and all the business based upon it be disturbed or destroyed, but gold will as certainly appreciate, bringing with it a series of financial disasters as great as those caused by the decline in the value of the white metal. India has destroyed the last support for the value of silver, and started it on its down grade with fearful velocity, and it has started gold climbing, initiating, or at least greatly stimulating, a movement which must disarrange and injure to an incalculable extent the commerce and industry of the world. Let every man now exert his influence to induce our government to propose a rational plan far universal bimetallism.

NEW PUBLICATIONS.

MONEY: ITS ORIGIN, ITS INTERNAL AND INTERNATIONAL USE AND DE-VELOPMENT. By J. C. Leaver, London, England. Effingham, Wilson & Co. Pages, 32. Price (in New York) 40 cents.

VELOPMENT. By J. C. Leaver, London, England. Effingham, Wilson & Co. Pages, 32. Price (in New York) 40 cents. REVIEW OF THE RT. HON. LEONARD COURTNEY'S ARTICLE ON "BI-MET-ALLISM ONCE MORE." By J. C. LEAVER. Pages, 10. In his article on "Money" Mr. Leaver seeks to prove, first, that gold "fulfills much more nearly all the conditions required to constitute it the best of all metals for use as money, especially owing to its greater steadiness in value"; second, that owing to the development of banking and clearing balances the necessity for actual coin has decreased, and that there is enough gold; third, that gold has depreciated, and, finally, that it would not be an advantage to increase the metallic currency of the world by artificially raising the price of silver. The argument pre-sented is more or less familiar, with the exception of that part relating to the depreciation of gold. Here Mr. Leaver takes the stand that gold has actually depreciated in value, basing his opinion on a considera-tion of the increased or decreased supply compared with an increased or decreased need. He holds that "it is ridiculous to say that gold has appreciated because the mills in Lancashire had, by improved ma-chinery and intelligence, produced cottons at half the expenditure of labor previously required." "It is absurd to quote the lessened price of manufactured articles as evidence that gold has appreciated." Follow-ing this he says: "To demonstrate that gold has or has not appreciated or depreciated we must not merely judge by the price of articles pro-duced, but by the cost of obtaining the labor, hour by hour." When this is done and "the values of permanent investments are compared, it is found that gold has depreciated, and that this depreciation has been in operation for a considerable time." The argument here advanced that investment securities are a measure of the value of gold, and that the increased value of such securities is

The argument here advanced that investment securities are a measure of the value of gold, and that the increased value of such securities is indicative of a depreciation of gold, is ingenious but fallacious, fully as much so as that the value of gold is to be measured by the average Mr. Leaver claims that the increased value of securities is due to the

Ince so as that the value of gold is to be measured by the average price of commodities. Mr. Leaver claims that the increased value of securities is due to the "the price of those securities whose soundness and stability is assured is a certain indication of the appreciation or depreciation of the metals which form the initial figure of that currency." The answer to this is that wealth is here confounded with currency. Accrued wealth has in recent years increased very rapidly owing to mechanical or industrial inventions, the consequent growth of civilization and aggregation of men in cities, and the ability of every man to put his labor in the best paying market. The herease in accrued wealth has led to the development of a class unwilling to work and possessing wealth, who are despenditure of labor. This motive, we take it, has been more influential in raising the price of securities than the mere increase of currency. On the other hand, it should be observed that a redundant currency will cause, first, inflation of prices, and then contraction, and that this movement occurs independently of the underlying metallic base of such currency. As proof of this we cite the present financial situation in the United States and Englan. In fis review of Mr. Courtney's article Mr. Leaver is by no means fair. He sets up men of straw and easily knocks them down. As an "deal" standard of money should be 'some such substance that a given weight should always be exchangeable for as nearly as possible the sine bundle of mixed commodities." We agree with Mr. Leaver that this is an extraordinary ideal of a standard, and we think that Mr. Courtney would say so also. What Mr. Courtney really did say was: "The common answer (to the question, "What is an ideal standard?)" would probably be that we should choose some such substance that a given weight should always be exchangeable for as nearly as possible the same bundle of mixed commodities." Mr. Courtney then shows that such a standard would be not only impossible, but valueless,

13 "

BOOKS RECEIVED,

In sending books for notice, will publishers, for their own sake and for that of book buyers, give the retail price ? These notices do not super-sede review in another page of the Journal.

Codigo de Minas y Vocabulario, 1893. Caracas, Venezuela: National Printing-House. Pamphlet, 76 pages.

Wholesale Prices, Wages and Transportation. Senate Report No. 1,394, Finance Committee. Parts 1 and 2. Washington: Government Print-ing Office.

ing Office.
Present Development of Heavy Ordnance in the United States. By W. H. Jaques. Philadelphia; Reprinted from the "Journal" of the Franklin Institute. Pamphlet, 36 pages; illustrated.
Mines de Nickel, Cuivre et Platine du district de Sudbury, Canada. By Jules Garnier. Paris, France. Reprinted from Proceedings of the Société de Ingenieurs Civils. Pamphlet, 24 pages; illustrated.

Ninth Annual Report of the Inspector of Mines in the State of Kentucky: for 1891-92. Charles J. Norwood, State Inspector. Frankfort, Ky., Public Printer. Pages, 284; illustrated by maps and diagrams.

CORRESPONDENCE.

We invite correspondence upon matters of interest to the industries of mining and letallurgy. Communications should invariably be accompanied with the name and ddress of the writer. Initials only will be published when so requested. All letters should be addressed to the MANAGING EDITOR. We do not hold ourselves responsible for the opinions expressed by correspondents

Uses of Molybdenum.

EDITOR ENGINEERING AND MINING JOURNAL: Sir: Can you inform me through your columns what the principal uses of molybdenum are? also where a market could be found for an ore carrying 20% molybdenum as molybdenite?

HUNT & ROBERTSON. NEW YORK, June 22, 1893. (Can any of our readers answer these questions?-Ed. E. and M. J.)

Moissan's Experiments in Reducing Oxides.

EDITOR ENGINEERING AND MINING JOURNAL:

EDITOR ENGINEERING AND MINING JOURNAL: Sir: Mr. Moissan's publications in "Comptes Rendus" toward the end of last year, and especially the abstracts from his-papers in numer-ous scientific and technical journals, are apt to give room to the im-pression that Mr. Moissan was the first who succeeded in reducing heretofore unreducible oxides. To correct any error as to the priority of this discovery, I may be permitted to direct the attention of metallurgists to pages 61-63 of my book on "Elektrometallurgy" (pub-lished by Harald Bruhm, Braunschweig, Gernany, 1891). They contain a report on my experiments, proving that "every metallic oxide is reducible by electrically heated carbon." DUBBERG-AM-RHEIN, GERMAN, June 17, 1893. W. BORCHERS, PH. D.

W. BORCHERS, PH. D. DUISBERG-AM-RHEIN, Germany, June 17, 1893.

The Treatment of Zinc-Lead Sulphides.

The Treatment of Zinc-Lead Sulphides. EDITOR ENGINEERING AND MINING JOURNAL Sir: In your admirable work, "The Mineral Industry," page 316, un-der the head "Modified Smelting," Mr. S. H. Emmens, speaking of the Bartlett process for treating zlnky ores, says that we commenced op-erations in 1891, and that if our work had been successful the results would have been widely published before this. He then goes on to say that our scheme for the reduction of zinky ores involves too many operations, namely, "a preliminary roast, a crude fume smelting, a re-finery smelting, ignition of crude fumes, etc." It is very evident that Mr. Emmens has confounded my process, as many others have, with that of the well known Lewis-Bartlett process as worked at Joplin, Mo. The F. L. Bartlett process and the Lewis-Bartlett process are entirely different. The process as carried on at the American Zino-Lead Works, Canon City, Colo., requires but two treat-ments of the ore at most; on some classes of ore only one. There is no "preliminary roast," no "crude fume smelting," no "ignition of the fume." fume

The "Engineering and Mining Journal" for August 3d, 1889, contained The "Engineering and Mining Journal" for August 3d, 1889, contained a complete description of the processes employed at our works, to which I would respectfully refer Mr. Emmens. The reasoning that, because we have worked two years and have not published our results, or allowed them to be published broadcast, we must necessarily have made a failure, is extremely curious. One would suppose that steady work, with a constantly increasing output, would be indicative of suc-cess. The fact stands that we are still running and that we treat all kinds of zinky ores successfully. While the profits have been small and the additions to our plant have absorbed much more money than we could spare from our working capital, the actual results have been ex-tremely good, and the cost of treatment well within the bounds of ordinary smelting. F. L. BARTLETT. F. L. BARTLETT, Generai Manager. ordinary smelting. CANON CITY, Colo., June 21, 1893.

"The Mineral Industry" for 1892.

EDITOR ENGINEERING AND MINING JOURNAL :

Sir: I have perused with much pleasure your Vol. I., "Mineral Indus-try" statistics, which I consider a most valuable book of reference.

Secretary Frontino & Bolivia Gold Mining Company, Limited. LONDON, E. C., England, June 7, 1893.

EDITOR ENGINEERING AND MINING JOURNAL:

EDITOR ENGINEERING AND MINING JOURNAL: Sir: As a work of reference the "Mineral Industry: Its Statistics, Technology and Trade," for 1892, is Indispensable to the student, the scientist and the commercial man. It reflects unbounded credit upon Its editor and is invaluable to the common-sense man who keeps in touch with the industry of the age. Such enterprise deserves substantial recognition, and you have my sincere wish for financial success. A. G. BROWNLEE, Agent Spokane & Great Northern Mining Company. CHICAGO. III., June 20, 1893.

CHICAGO, Ill., June 20, 1893

EDITOR ENGINEERING AND MINING JOURNAL:

FRANKFORT ON MAIN, Germany, June 7, 1893.

Sir: With pleasure I confess that my expectations of the statistical number of the "Engineering and Mining Journal" have been surpassed, as I had not expected to get such a large volume full of information of the mineral and metal line of the world. Knowing, myself, what trouble it is to gather information, I am in a position to appreciate what you have done. I am surprised to have it now, so full of information up to the end of 1892.

H. E. BANDELL

THE SOLUTION OF THE SILVER QUESTION.

The following are extracts from an editorial which was lately pub-lished in the daily "Times-Republican" of Marshalltown, Ia., of which Mr. Walker Given is editor, and show the opinion of a complete stranger who judged the plan on Its merits:

who judged the plan on its merits: "Somewhat unexpectedly the congress of financiers at the World's Fair has produced an eminently practicable solution of the silver ques-tion in the proposition of Richard P. Rothwell for an international clearing house to adjust balances and difficulties as between the leading nations. The papers read previously by leading bankers and financiers had not prepared the public for a practicable and reasonable proposi-tion like this. Most of them were ardent gold-bugs and took a position in favor of gold monometallism such as the people of this country can-not and should not accept. On the other hand, a few extreme silver men were introduced to make things even by advancing wild ideas on that side. that side

"Mr. Rothwell, however, took medium ground, and in discussion of the subject international bimetallism outlined a plan for doing away with the difficulties which are constantly arising under the present complex system. *plex system. *

"Mr. Rothwell's plan is not without great difficulties, but it is far ahead of any other yet presented both as to practicability and as to the beneficial effects certain to result from it. The Rothwell plan is the one valuable thing that has come from the bankers' congress at the World's Fair. It represents a method by which bimetallism can be preserved to the great benefit of all leading nations and the threatened gold scarcity and contraction avoided."

STOPPAGE OF FREE SILVER COINAGE IN INDIA AND ITS IMMEDIATE RESULTS.

The chief details of the report of Lord Herschell's committee, which, was appointed in the early part of 1892 to examine into the currency question of India, were made public simultaneously in England and India on Monday, June 26th. For some time It has been known that the committee would recommend that the coinage of silver for private account be stopped, and during the latter part of last week it was rumored that the report also recommended the imposition of a tax upon silver imported into India and governmental regulation of rupee exchange. These rumors were made certainties on the following Mon-day. On that day the Earl of Kimberley, Lord President of the Coun-cil and Secretary of State for India, stated in the House of Lords that the India Council had passed an act for the immediate closing of the Indian mints to the free coinage of silver; that arrangements were being made to issue rupees from the mints in exchange for gold at the rate of 16d. per rupee, and for receiving sovereigns and half sovereigns at the treasuries in payment of dues at the same rate. The Earl of Kimberley, further said that it was intended to introduce the gold standard in India, but that gold in the meantime would not be made a legal tender. In the House of Commons Mr. Gladstone gave information similar to, that given in the House of Lords by the Earl of Kimberley. Regarding the silver now on the way to India, Mr. Gladstone said that the Gov-ernment of India had been instructed that it was open to it to admit this silver to the mints if it thought fit. In answer to a question from Mr. Goschen, Mr. Gladstone said he assumed that the Indian Govern-ment would not make discriminatory arrangements to the disadvantage of the naltyes holding uncomed silver, most of which was in the form

this silver to the mints if it thought fit. In answer to a question from Mr. Goschen, Mr. Gladstone said he assumed that the Indian Govern-ment would not make discriminatory arrangements to the disadvantage of the natives holding uncoined silver, most of which was in the form of ornaments worn by the natives. The history of Lord Herschell's Committee and the steps leading to its appointment and of its recommendations was briefly outlined in the Commons as follows: During March, 1892, the India Council wrotte urging the home government to aid in the settlement of the silver question by an international agreement, failing which, not to defer de-termining upon an Indian policy, as, if an international agreement should not be obtained, the United States might suddenly stop the coinage of silver, leaving India unprepared. Other communications, were sent discussing the fall in rupee values and the fluctuations in the rates of exchange. The Council, in a letter written in June, 1892, advised that if the International Monetary Conference at Brussels failed, and a direct agreement between India and the United States could not be attained, the mints of India be closed to the free coinage of silver, and a gold standard be introduced. In a minute Mr. Barbour, Financial Secretary of India, opposed the stoppage of free coinage until it became evident that the United States would not adopt free coinage. Mr. Barbour estimated that the total active circulation in India amounted to 115,000,000 rupees, while a much larger proportion is hoarded. To establish a gold currency, with a full legal-tender currency composed entirely of gold, it would be necessary to withdraw from circulation 1,150,000,000 of rupees, replacing them by-f77,000,000 sterling gold. He, therefore, contended that with a gold standard in India a large proportion of the circulation must continue in silver, with silver a legal tender to any amount. If both metals be unintained in circulation, a gold colnage to the amount of £15,000,000

would suffice.

Mr. Long, in a minute to the Council In August, 1892, discussed the adoption of the gold standard, and concludes by suggesting that the ratio of conversion be about 1 to 20.

In advising the Indian Government to exchange gold at the ratio of

16d. to the rupee, the commission said that the object is to guard against a sudden considerable rise in exchange. Hereafter the ratio

16d. to the rupee, the commission said that the object is to guide against a sudden considerable rise in exchange. Hereafter the ratio ought to be raised if circumstances make it advisable. On the following day, June 27th, explanations of the plan were made in India and England as follows: At Simla, India, the Viceroy, in ex-plaining the provisions of the bill to the Council, said that the keynote of the scheme was rather to prevent a further fall in exchange than to raise the value of the rupee. The fixing of the provisional rate of ex-change at 1s. 4d. provided an automatic means of preventing the closing of the mints and the violent disturbing of exchange rates. The rate of exchange had been fixed high enough to relieve the Government rate of exchange had been fixed high enough to relieve the Government of its most pressing necessities, while it was well within the limits of the recent fluctuations. In London, June 27th, there was further debate in the House of

In London, June 27th, there was further debate in the House of Commons, chiefly on the point of compensation for individual losses due to the closing of the mints; any such action, the Government thought, would establish a bad precedent. It was stated that the Indian Government had power to coin rupees If needed. Although this action of India had been expected, It yet took the world by surprise when it came. On Tuesday bullion silver fell from 38d, to 36d, in London and from Slc. to 77c. per oz. in New York. On Wednesday it suffered a further drop to 34d, in London and 69c, in New York; on Thursday to 31½d, in London and 62c, in New York. The surprising thing about these quotitions is the fact that the New York.

York; on Thursday to 31½d. in London and 62c. in New York. The surprising thing about these quotations is the fact that the New York price is from 5 to 6 cents per oz. lower than the London price. Another result of India's action has taken place which is of far greater importance to this country than a break in the bullion market, namely, the crystallizing of the sentiment of the country into an almost unani-mous call for the immediate repeal of the Sherman bill. From one end of the country to the other meetings of business men, chambers of commerce, bankers and miners are being held and resolutions passed urging the President to call an immediate session of Congress to repeal urging the President to call an immediate session of Congress to repeal the Sherman bill. The editors of many Southern papers, formerly in favor of the bill, are now demanding its repeal in no uncertain terms. On the other hand, a few Congressmen, who do not, however, carry any particular weight, continue the old cry for free coinage in spite of

the fact that the bullion value of the silver dollar is only 49 cents. These Congressmen are headed by Warner and Newlands, of Ohio. It is needless to say that Senators Jones, Peffer and Stewart still main-

It is needless to say that Senators Jones, Peffer and Stewart still main-tain that the only remedy is free coinage. Although the President, as has been indicated, is constantly receiving telegrams and petitions from all over the country urging him to call Congress together immediately, he has not yet announced his intention to do so. It is said, semi-officially, that the delay is due to the fear that the Senate would oppose the repeal, several of the Senators who were formerly known as sound money men having, it is said, changed their opinions, and now hold that this country must do what it can to hold up silver. The futility of this idea is made evident by the down-ward march of the metal during the last two years in spite of our ward march of the metal during the last two years in spite of our heavy purchases

Upon silver miners the break in silver has naturally been disastrous, for there are but few mines in the country that can produce silver at a

profit with bullion at 60c, per ounce. The first outcome of the silver excitement in Colorado was a meeting of silver miners and smelters held in Denver June 29th. Although of silver miners and smelters held in Denver June 29th. Although called on very short notice the meeting was largely attended, all the prominent silver producers of the State being represented. Ex-Governor J. B. Grant, of the Omaha & Grant Smelting Company, was made chairman of the meeting. The proceedings were short and to the point, few or no speeches being made. The Committee on Resolutions, con-sisting of J. J. Hagerman, D. H. Moffatt, R. C. Brown, M. W. Thatcher and B. M. Hyman—all well known men—reported a series of resolu-tions which were unanimously adopted, and which are given below: "Whereas, It appears from the continued attacks on silver by the mono-demetallists of the United States, England and other nations that there exists in their minds (induced, probably, by the product of an ex-ceptional or phenomenal mine) the idea that the metal is so abundant, and the cost of production so little, as to justify the depreciation of its value; and,

value; and.

value; and, "Whereas, From years of experience in mining, milling and smelting we are in a position to more thoroughly and correctly know the actual cost of producing silver, and have, in the hope that its market value would more nearly approximate its intrinsic value by its rehabilitation on some equitable basis, kept our men employed in our mines, mills and smelters, though at a loss to ourselves in general; and "Whereas, From the present price and the condition of affairs and tendency of events it is evident this hope is dissipated for the present; now, therefore, be it

now, therefore, he lt

"Resolved, That it is the unanimous sense of this meeting of mine, mill and smelter owners that we put a stop to our further losses by an im-mediate and complete cessation of all our silver mining, milling and smelting operations in the State of Colorado, in the full belief that the monometallist element will finally appreciate three vital points: "First—That the world cannot transact its business without the use

"First—That the world cannot transact its pusiness without the use of silver as money. "Second—That the actual cost and value of the metal far exceed the incorrect views which they have formed. "Third—That the inevitable course of events will quickly demonstrate that the enormous sums of money invested in railroads, loans and other property will so depreciate in value that the monometallists will also be convinced that some action must be taken with silver to restore it to its legitimate use which it has held from time immemorial; and be it further

"Resolved, That we deprecate and condemn the intemperate opinions and statements of unreasonable men, which have been telegraphed to the East, that Colorado has any intention of repudiating her obliga-tions, public or private. On the contrary, we think ourselves as well able as any other part of the world to meet whatever may come in this emergency."

emergency." The meeting adjourned immediately after the adoption of these. Mr. D. H. Moffatt, the largest individual mine owner in the State, at

once gave orders to shut down the mines which he controls at Lead-ville, Creede, Rico, Cripple Creek and other points. The order also in-cluded the closing of the Holden smelting works at Leadville, the lixivlation plant at Aspen, and other works. The Mollie Gibson and lixiviation plant at Aspen, and other works. The Monte Ginson and the Smuggler mine at Aspen, the former the largest silver-producing mine in the State, have been closed down, and it seems probable that the resolutions given above will be generally complied with, and that for a time at least there will be almost a complete stoppage of the silver industry in Colorado.

Idaho reports indicate that very much the same action will be taken in that State. The mine owners in the Wood River district have de-cided to suspend. In the Coeur d'Alene trouble in relation to wages, cided to suspend. In the Coeur d'Alene trouble in relation to wages, which threatened to result in a strike, is complicated by the new con-ditions which have arisen. It is very possible that these may prevent a strike, or rather convert it into a lockout by the shutting down of the mines; although, on the other hand, it is possible that the miners may withdraw their claims for an increase, realizing the impossibility of obtaining it under present conditions, and that some arrangement may be made by which work will go on. The stoppage of the mines of course affects the smelting works at Oranke St. Louis and other points, which have heen working on silver

omaha, St. Louis and other points, which have been working on silver ores, and they will probably have to stop also for a time. In Montana, while there may be a stoppage of silver production, the extensive cop per and other interests will prevent a general stoppage of mining such as is threatened in Colorado, and will make the situation much less difficult

difficult. In Utah and Nevada all the prominent companies have already closed down. Among them may be mentioned the Diamond, Daly-West, Jor dan, Galena, Bullion-Beck, Crescent, Anchor and Yosemite. In Montana the Allce, Moulton, Lexington and Gagnon have given notice to their men that work will stop with the week. The effect on mining stocks at New York and other points has, of course, been a general decline in all the silver stocks, and, strange to say, in stocks of gold mines also. To a great extent this decline seems to have been unreasonable. The decline in silver stock might, of course, be expected, but at the same time a gain in gold mining stocks might be looked for, but has not occurred.

to have been unreasonable. The decline in silver stock might, of course, be expected, but at the same time a gain in gold mining stocks might be looked for, but has not occurred. According to the latest dispatches the Mexican Secretary of the Treasury has announced that there is no probability that the country will suspend the free coinage of silver. On the contrary, all of the Mexican mints will continue to work to their full capacity, and that of the chief mint in the City of Mexico will shortly be increased from \$14,000,000 to \$18,000,000 a month by new machinery which is now being put in. The Secretary claims that there is a scarcity of circu-lating medium in the country due malnly to the heavy export of Mexi-can dollars to Asia, where there has been for many years a steady mar-ket for Mexican silver. It is claimed also that the heavy fall in price will not be as injurious in Mexico as in the United States, owing to the low cost of production of many of the Mexican mines. This claim, however, will be disputed by our own producers, who are inclined to think that improved machinery and methods more than equal the ad-vantages of cheaper labor enjoyed by the Mexican operators. Dispatches from Valparaiso state that the fall in silver has caused much excitement in Chile and Peru, and there is a strong probability that many of the mines in those countries will be closed down, leaving at, work only those which have exceptional advantages of position in alding them to turn out silver at a low rate.

The Survey of Labrador.—Two engineers connected with the Geo-logical Survey of Canada left Quebec June 23d on a long and perilous exploring trip into the wild and inhospitable territory known as the Labrador peninsula. The expedition will be absent from civilization for nearly two years, and before its return to Quebec hopes to have solved the enigmas of the great Lake Mistassimil and of the cataract of the Hamilton River, concerning which such fabulous tales have been told. It expects to traverse the Interior of Labrador from south to north as well as from west to east, to visit Ungave Bay in the ex-treme north and Hamilton inlets in the extreme east.

Topographical Survey of New York.—At the last session of the New York Legislature an appropriation of \$30,000 was made for continuing the topographical survey of the State. Of this sum \$24,000 has been expended under the joint jurisdiction of the State Engineer and Sur-veyor and the Director of the U. S. Geological Survey, it being stipu-lated that the United States shall contribute an equal amount toward carrying out the project. The Director of the Geological Survey, Major Powell, has just completed arrangements with the State Engineer, under which work will be carried on during this summer and fall. It is provided that the work shall be based upon the triangulation of the Coast Survey, the Lake Survey and the New York State Survey, and when the triangulation is deficient it shall be supplemented by the Geological Survey. The scheme contemplates a scale of about 1 in. to Solution of the triangulation is deficient it she New Tork State Survey, and Geological Survey. The scheme contemplates a scale of about 1 in. to the mile, with 20-ft. contour lines, being the same plan adopted in the joint surveys of the New England States and the Geological survey. It is proposed to make 22 sheets this year, each about 15×20 in., and each including 225 square miles of territory. Two of these sheets will be made from surveys near Rouse's Point, three in the eastern portion of the Adirondack region, three in the vicinity of Whitehall, Washing-ton County; two on the Hudson, about Kingston and Catskill; two in the Mohawk Valley, near Fonda and Amsterdam; two about Onelda Lake in the vicinity of Syracuse; three in the neighborhood of Water-town, Jefferson County; two near Elmira and Ithaca, and three in the neighborhood of Buffalo and Niagara Falls. It is estimated that the entire work will occupy about ten years, and that the result will be a map composed of about 200 sheets and part sheets, each 20×15 in., which will give a complete topographical chart of the entire State of New York. The work is of importance, as at the present time the officials of the Geological Survey declare that with the single exception of Maine less is known of the topography of the Empire State than of any other State in the Union.

MINING AT THE COLUMBIAN EXPOSITION.

Specially Reported for the Engineering and Mining Journal.

THE WYOMING STATE EXHIBIT.

THE WYOMING STATE EXHIBIT. The States and Territories of the Far West are popularly known as large producers of the precious and of the more valuable of the base metals. Little is known of the cheaper, but even more import-ant, grades of minerals produced further than that they are to be found and are mined to some extent. Those States that do not make a good showing as precious metal producers are apt to be regarded as almost devoid of mineral wealth. The State exhibits in the Mines Building at the World's Fair largely remove this impression, and show that most of the States and Territories of the West possess a marked individuality, and they are each, along certain lines, rich in minerals and ores of value. One can see at a glance that silver and lead are the most important of the many and diverse mining industries of Colorado; that copper is pre-eminently the import-ant factor in Arizona mining; and so it is to a less degree with many other States. No State, perhaps, possesses a greater individuality other States. No State, perhaps, possesses a greater individuality than Wyoming which in many respects more closely resembles an undeveloped Pennsylvania than it does the States that surround it.

This State early recognized the importance of representation at

outlet for drainage. They undoubtedly arise through the evapor-ation of mineral waters. In the winter and spring they are covered with a foot or more of water. As the dry and warm season begins the water evaporates and leaves a superficial deposit of very pure crystals several inches thick. Beneath these there is always a layer of blue mud, that has a strong smell of sulphuretted hydrogen. The main deposit lies beneath this mud, is massive, and breaks with a coarse crystalline cleavage. It is almost always contaminated with thin layers and pellets of clay and other insoluble impurities, but otherwise is usually quite pure. The best known deposits, but not the most extensive, in the State are called the Union Pacific Lakes. They are about fifteen miles from Laramie, on the Union Pacific Railway, with which place they are connected by a branch. The lessees, Stephen Paddon & Co., of Chicago, worked the deposits last year, and calcined the natural soda, taken from the superficial crust, at Lara-mie. They shipped about 2,000 tons of the calcined soda to glass works in Illinois, and were so satisfied with the results that they intend to greatly enlarge their capacity. The soda is practically pure, and sells at a higher figure than the best English salt cake. That shipped East was largely used as a substitute for soda ash in the manufacture of plate glass. The most massive sample of soda on display, a cube weighing more than 6,000 lbs., is of the sulphate of sodium taken from the Union Pacific Lakes. The water on the lakes this spring prevented a cube being taken from the original deposits, this spring prevented a cube being taken from the original deposits,



TUE WYOMING STATE EXHIBIT IN THE MINES AND MINING BUILDING.

the World's Fair, and appropriated \$30,000 for this purpose, a sum

the World's Fair, and appropriated \$30,000 for this purpose, a sum small compared to most appropriations, but generous when the pop-ulation of the State is considered. One of the results of this appro-priation is the mineral display, which is one of the most massive in the building. It contains in all about 50 tons of ore and coal, and is installed in an imposing and substantial manner. The illustration accompanying this article gives a general view of the exhibit. The space, which is 30×42 ft., is completely covered with a raised platform. It is inclosed on the two sides facing aisles by a pavillon o' somewhat elaborate design, painted in ivory and gold, and so ar-ranged as to leave a space about 2 ft. in width on the outside. On this there are massive oak benches, on which building stones, cases of ivon ore and other heavy specimens are shown. The other two sides of the space are inclosed by partitions, which are concealed below by flat topped cases of oak for small specimens, and, from the top of these, iy three solid rows of handsomely framed photographs. Some of them are very large and impressive. They were all taken by W. H. Jackson, of Denver, Colo., who made a special trip across the northern portion of the State from the Black Hills to the Yellow-stone Park to procure them. They include the best views of the Na-tional Park, and many others of superb mountains and lakes that are almost unknown to civilized man. These photographs are not only handsome in themselves, but they afford an excellent relief to the massive economic display. The most unique exhibit is the samples of sulphate and admixtures of sulphate and carbonate of sodium which occur in large deposits in several widely separated localities. These salts occur in deposits known as lakes in the lowest portions of small basins that have no

and the cube was made artificially by dissolving the pure crystals, taken from the deposits last year, in hot water, and allowing the saturated solution to cool in a water-tight box. Owing to the fact that all mechanical impurities have been thus separated, this sample is nearly chemically pure. The thickness of this deposit varies greatly, but it is stated on good authority to be 40 ft. at one point. The soda lakes belonging to S. W. Downey, of Laramie, are represented by a 3-ft. cube and a block 2 ft. square by 3 ft. high, which were cut from the solid deposit. Together, the two pieces weigh nearly 5,000 lbs. Smaller samples from six other deposits are built in a pyramid under a large glass case. Among them the Gill soda, taken from the main deposit beneath the blue mud referred to, is particularly noticeable on account of its purity. The following partial analyses, made by H. L. Hollis & Co., of Chicago, represent an average of some of the samples on exhibition:

Water	1. 51.52	2. 40.60	3. 53.71	4. 51·32	5. 59.67	6. 41.96	
Suiphate of sodium		51.71	14.80	16.99	9.11	52.20	
Carbonate of sodium	.00	5.65	18.84	21.21	30.74	3.64	
Insoluble residue	1.55	0.52	7 55	8.54	0.03	1.19	

No. 1, Gill lakes, Natrona County, sample of main deposit. No. 2, Morgan Lake Fremont County, sample of superficial crust. Nos. 3 and 4. Dupont large and amal lakes, Natrona County, sample of main deposit. No. 5, Wyoming Syndicate Im provement Company, Natrona County, product attained by evaporating natura solutions. No. 6, Wyoming Central Association, superficial crust.

The insoluble residue of these deposits consists of pellets of clay and some gypsum, and in working them extensively it is probable that it will be found advantageous to dissolve the soda to a saturated solution in warm water, and, after the mechanical im-

purities have settled out, to allow the solution to cool and the crystals

purities have settled out, to allow the solution to cool and the crystals to separate. It is difficult to estimate the cost of mining and cal-ching the pure natural soda, as the work has not yet been inaugurated long enough, but it is estimated that the practically pure calcined sulphate can be made on an extensive scale for about \$3 per ton in Wyoming. Accompanying the soda display there are a number of cylinders of very clear glass, some of which were made at Laramie, Wyoming, out of calcined natural soda and sand and limestone, ex-cellently adapted to glassmaking, both of which occur in large de-posits in the upper carboniferous measures just without the city limits. Others were made in Illinois out of Eastern sand and lime-stone, with Wyoming natural calcined soda. The coal of the State is represented by a number of massive columns, all placed on a raised platform to the left of the main en-trance. The central column is 24 ft. in height and represents the coal of the seam in Weston County operated by the Cambria Mining Company. This pyramid is divided into three sections of nearly equal height. The base is made of four massive blocks, 4×3 ft. 22in high. Together they represent about the thickness of the seam, as developed in the Jumbo mine, between 7 and 8 ft. The next section is built of lump coal, and the upper 9 ft. of coke made from the coal cuttings. These mines are situated in the Southwestern foothills of the Black Hills, in northeastern Wyoming. Unlike all other coals of the State, it occurs at the base of the Dakota group of the creta-ceous formation. The seam outcrops on the sides of canyons, and is nearly horizontal. Both the roof and floor are sandstone. The mines were discovered in 1888, when the Burlington Railway was over 200 miles distant. In January, 1890, the mines were opened, the railway built to them and active mining was commenced. On January 1st, 1893, the total output from the two mines opened was a little over 900,000 tons. To date the total output is over 1,000,000 tons

tons. The plant at these mines is one of the most complete and powerful in the country. The coal is mined entirely by machinery. Four 250-h. p. air compressors supply the power. The Jeffrey coal cutting machine mines most of the coal, but betwen 20 and 30 Ingersoll machines are also used, and are found to be the most satisfactory when the floor of the seam is very uneven or the base of the seam expectionally hard and impure. The Ingersoll drill is also used in drilling holes for shooting down the coal. Each mine is equipped with a very complete and powerful tail rope system for underground haulage. The coal, as brought from the mines, is all passed through breakers and crushed to pass about a 6-in ring. Part of the slack is passed to the boiler-house by a belt conveyor; part of it is shipped;

with a very complete and powerful tail rope system for underground hulage. The coal, as brought from the mines, is all passed through breakers and crushed to pass about a 6-in. ring. Part of the slack is passed to the boiler-house by a belt conveyor; part of it is shipped; and the balance, with the coal cuttings, is coked in a bench of 25 ovens which have been put up a short distance below the mines. This coal is exceedingly important on account of its location, it being the only really good steam coal thus far found in the Northwest, between lowa and the Yellowstone Park. It is largely used as a locomotive fuel on the Burlington system, in Nebraska and Wyoming, also at the large mines in the Black Hills in South Dakota. The coke is used almost exclusively for lead smelting in the Black Hills. One of the most instructive columns is made of a series of seven cubes, that are made to a scale, so that each 2 in. of their height represents 1 ft. of the average thickness of the seami where they were mined. The two lower cubes, 32 and 24 in. high, represent the average thickness of the 16 and 12'ft. seams mined by the Union Pacific Coal Company, at Hanna, Carbon County. The other five cubes have a 21, 14, 12, 8 and 6 in. edge, respectively, and represent the five seams of coal mined at Rock Springs, which average 10½, 7, 6, 4 and 3 ft, respectively. The first three represent mines of the Union Pacific Coal Company, the last two the seams of the Van Dyke Coal Company. The mines of the Rock Springs, Sweetvater and Union Pacific Coal Aforming a rustic column and showing the natural appearance of the coal upon natural clearage surfaces. The Rocky Mountain Coal and Iron Company, of Uinta County, various mines of the Union Pacific Coal Company in Carbon and Uinta counties and a number of smaller mines that do not ship by rail are also represented. The Cambria mines produce coking coal, as already mentioned. All of the others are non-coking, semi-lignate coals. That of Rock Springs is a good steam coal and one of the best do

Nebraska and Kansas and in Cantornia does not extend 1/2 con-per ton per mile. The growth of the coal mining industry in the State from 1870, when the output was 50,000 tons, is very satisfactory. The production during the past ten years, shown in the following table, is taken from "The Mineral Industry," where is given the production yearly from 1870:

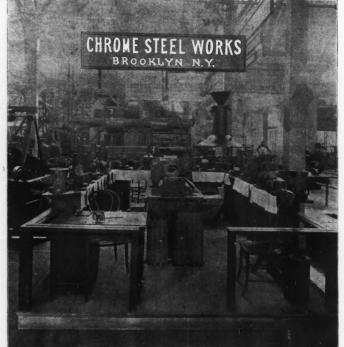
Calendar year.	Short tons.	Calendar year. 1888	Short tong.
1883		1888	1,481,540
1885	807.328	1889. 1890.	1 870 366
1886	829 355	1891	2.327.841

The display of iron ores is especially massive and complete, the most important ores being hematites. These are represented by sam-ples from eight of the claims of the Wyoming Central Association

in Carbon County. Two samples are from the public domain in Crook County; samples of the almost chemically pure hematic from near Rawlins, Carbon County, and other specimens, including a very complete series of hematites from the numerous claims of the Wy-oming Railway and Iron Company, in Laramie County. One pyramid of about ten tons of hematite is made up of ore from four of the deposits of the latter company. Other samples of both the hard and soft ores from their claims are represented in lots ranging from 50 to 400 lbs. These ores occur in great lenticular masses in chloritic and micaceous schists. At least five different lenses have been discovered. The width of the ore masses has been developed in but one case, where it is from 150 to 200 ft. wide. In several other cases the ore bodies are known to be more than 90 ft. thick, although both walls have not been found. Many samples of the ore soft these deposits have been taken by various mining engineers, and the fact is demonstrated that much of this hematite is very superior Bessemer ore; and while the deepest shaft is but 120 ft. and the developments go, the district probably shows more ore on the same area than any other district in the United States. The following partial analyses show the composition of three grades of this ore:

	No. 1.	No. 2.	NO. 3.
Metallic iron	69.12	63.20	67.15
Silica		7 - 90	3 64
Phosphorus		0.046	0.082
Sulphur	0.000	0.004	0.001
is to be momented that more and	Imaga of	6 the 90 on 10	namplag

It is to be regretted that more analyses of the 30 or 40 samples of iron ore displayed were not made. The expense was thought to be too great.



The petroleums of the State are represented by some 15 samples, chiefly from Fremont, Natrona, Johnson, Crook and Weston counties. Most of the oilfields are far from the railroads, and there are as yet no facilities for transporting it. While there has been some drilling, most of the samples come from springs or seepages. However, four of the samples come from the following wells: Front the three Murphy wells near Lander, the well near Bonanza, Fremont County, the wells of the Pennsylvania Oil Company on Salt Creek and the Anglo-American Oil Company on Powder River. Johnson County. A fine display comes from the seepages on the undeveloped properties of the Wyoming Central Association. Most of these samples represent heavy lubricating and fuel oils of a specific gravity of from 23° to 25° B. Two of the samples, however, have a gravity of over 30° B. over 30° B.

over 30° B. Many other mineral products are represented in the exhibit, includ-ing some newly discovered gold ores and some fine samples of copper ore and asbestos. Many samples of building stones, gypsum and the plaster made from it, sulphur, clay and brick, tin ores, stream tin, polished agates and marble, and many other substances are repre-sented and worthy of representation. Altogether this young State has a very massive and creditable display, especially when it is remem-bered that, with the exception of the coal display, almost every specimen had to be gathered and shipped from 20 to 200 miles to the nearest railroad point by wagon. The Board of Managers are to be congratulated for their energetic work, which has secured for Wyoming an exhibit to be proud of, and the greatest credit is due to Mr. Louis an exhibit to be proud of, and the greatest credit is due to Mr. Louis D. Ricketts, the well known mining engineer, of Cheyenne, Wyo., who has had charge of it.

SOME MACHINERY EXHIBITS.

The fine exhibit of the Chrome Steel Works, in the northeast section, Column 14 S, Mines Building, is certainly a unique one. It is far from what may be termed attractive at first sight, but mining men and others who know the products of this company will find there as in-

teresting an exhibit as any in the building. The exhibit consists of chrome steel castings, which are particularly adapted for use where extra durability, strength and toughness are required. Among the castings are battery shoes and dies, cams, tappets, etc., for stamp mills; spinning and stamping dies used by tinware manufacturers; gear wheels, hammer dies, and also the company's combination plates of welded chrome steel and iron used in the construction of burglar-proof safes, vaults and prison cells. The specimens displayed are chiefly worn-out castings; in fact, the company have made this a feature. The specimens as named above are the contribution of mines throughout the United States, and almost every mining district has its representation. Each specimen is labeled with a report from the mine superintendent under whose management they were used, stating the length of service, quality and quantity of ore crushed, and other in-formation of value and interest to the mining community. The cast-ings show remarkable evenness in wear and longevity before being finally discarded. The display of combination plates used in the con-struction of safes and vauits in some of the largest financial institutions in the country is particularly interesting. The exhibit is in charge of Mr. John B. Power, who is ready to give information to all who call. The exhibit is shown in the accompanying engraving, from a photo-graph. teresting an exhibit as any in the building. The exhibit consists of graph.

THE COOSA COAL FIELD IN ALABAMA.

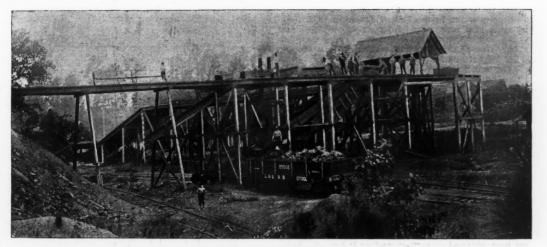
Written for the Engineering and Mining Journal by W. M. Brewer

This field, taking its name from the Coosa River, which drains it, is situated in St. Clair and Sheiby counties, in Alabama. The extent in the first named county is estimated by geologists at about 150 square miles; but only about 30 square miles have been thoroughly prospected, and systematic mining operations at present are only being conducted at two points in that county. The fact that a large portion of this field lies at a distance from a railroad is the reason for this. This field be-longs to the great Appalachian coal field, as also do all of the deposits

to a solid roofing having been encountered. Below the coal is a stratum of fireclay averaging from 18 to 24 in. in thickness, then sandstone. By a system of carrying the steam pipes in one of the air courses and exhausting in the same the temperature of the underground workings is here units each

Washing machinery is being erected at the mouth of the slope, so that in future the run of mine will be screened and washed there in-stead of being only screened at the slope, and the slack hauled to the coke ovens at Ragland, transferred by elevators to the washers, and re-loaded for blacksmiths' consumption or elevated into the bins to supply the coke ovens. The new machinery will have a capacity for band the coke ovens. The new machinery will have a capacity for hand-ling, or rather elevating, and washing 200 tons of slack coal per day. At Ragland the works consist of 10 Thomas coke ovens, with a ca-pacity of nearly 40 tons per day of 72-hour coke, and coal washers which were erected here some three years since when the coal was mined and hoisted from a vertical shaft directly connected with the washers and elevators

which were erected here some three years since when the coal was mined and holsted from a vertical shaft directly connected with the washers and elevators. Mining operations are at present carried on about three-quarters of a mile west of these works, but on the same seam. The analysis of coke manufactured from the slack coal from this mine, as given by Wm. Makemson, chemist for the Woodstock Iron Company at Annis-ton, is as follows: Fixed carbon, 80'30'', sulphur, 0'768; ash, 15'80; volatile matter, 1'13. At the Atlanta Water Works, where St. Clair coal is used, the average pumping capacity to 100 lbs. of coal is 18,46'6% galions of water. By careful computation the actual shrinkage in the manufacture of coke from this coal is 33''. The workings at Coal City or Broken Arrow are more extensive, con-sisting of two slopes, the one shown in the illustration, No. 1 having been run in on an angle of about 20° in a course south 40° west for a direction south 10° west, in which direction the slope was continued to the bottom, 330 ft., run through to the mouth. Four side entries have been made from the slope, each running south 10° east. No. 1 is in 2,200 ft.; No. 2 in 2,445 ft., run through to the outcrop; No. 3 in 1,700 ft., and No. 4 in 1,050 ft. The seam of coal exposed in these workings holds an aver-



SLOPE NO. 1, COAL CITY MINING COMPANY, COAL CITY, ALABAMA.

SLOPE No. 1. COAL CITY MINING in Alabama. The mountain range in which the coai seams of St. Clair County are found is in the southern extremity of the Blue Ridge, the course of which, from northeast to southwest, can be easily traced across northwestern Georgia into Cherokee County, Alabama, thence in the same direction across the Coosa River into St. Clair County, near the northeastern boundary. The great fault, as it is locally denomi-nated, which divides the carboniferous from the silurian formation, can also be easily traced from the Coosa River at Greensport in an almost due westerly direction, thereby showing that Ragland is near the north-eastern extremity of this section of the field, and Coal City or Broken Arrow, twelve miles distant, near the southwestern extremity; in fact, three-quarters of a mile south of Coal City the extreme southern out-crop of workable coal of this field, or rather that section lying in St. Clair County, is encountered, so far as present developments have dem-onstrated. In the northeastern portion of this field only one workable seam has been discovered which shows an average thickness of about 32 inches. The workings here consist of a slope run in on an angle of about 15° for 550 ft. in a course 50° east of south with the pitch of the coal seam. At that point the same course 150 ft. to the present face. Six side entries have been made. Three of these are run toward the east and three toward the west. In all of these are not over at the any point. The dimensions of these entries are as follows: No. 1, 300 ft. from mouth of slope, in 578 ft., worked out; No. 2, 20 ft. from No. 1, in 578 ft., 15 rooms working; No. 3, 110 ft. from No. 2, in 80 ft.; West No. 1, 330 ft. from mouth of slope, in 575 ft., 15 rooms working; No. 2, 120 ft. from No. 1, in 320 ft., 8 rooms working; No. 3, 150 ft. from No. 2, break belng made. Rooms are broken in at intervals of 36 ft. along the entry, being

2, 120 ft. from No. 1, in 326 ft., 8 rooms working; No. 3, 150 ft. from No. 2, break being made. Rooms are broken in at intervals of 36 ft. along the entry, being broken 12 ft. wide, and the coal taken out for 24 ft. at the same width; at this point the room is widened out to 24 ft., and the coal taken out from that width to the air course above, which is run 16 ft. below each entry. By this system pillars of solid coal are left to support the roof of the mine, and upright timbers are added in the rooms to prevent any danger from its falling in. In this mine the roof or hanging wall is a very hard and solid slote no bituminous shale nor other dotriment is a very hard and solid slate, no bituminous shale nor other detriment

<text>

expelled at 212°. Fahr., 0.79; volatile combustible matter, 0.58; ash, 5.61; fixed carbon, 93.02; sulphur, included in the above, 0.74. The actual mining operations at Ragland are being carried on by the Ragland Coal and Coke Company as successors to the St. Clair Coal Company, with Wm. Harris as superintendent of mines and J. R. Brown general manager. At Coal City operations are conducted by the Coal City Coal Company, with S. Noble, of Anniston, president; W. P. Laramore, vice-president and general manager; Chas. T. Freeman, secretary; S. E. Noble, Anniston, treasurer; Wm. Herbert, superintend-ent of mines. Both these companies lease the mines they operate, those at Ragland being the property of the Trout Creek Coal and Mining Company, which owns 500 acres, and those at Coal City the property of the Broken Arrow Coal and Mining Company, which owns 3,200 acres. Besides these, about 2,000 acres of coal land in this vicin-ity are owned by other corporations and individuals along the line of the East & West Railroad of Alabama, but no openings except for prospecting have been made besides those described. At one other point coal was mined before the War, but at present the workings can-not be examined. not be examined.

The acompanying illustration shows the hoisthouse at Slope No. 1, Coal City, with tipple, chute and platform for handling trans; the mouth of the slope is in the background. The coal from both the slopes on this property is not at present washed, as at Ragland; but it is the intention of the company to add washing machinery when the is the intention of the company to add washing machinery when the Thomas oveus are built. The markets for the coal from both Ragland and Coal City are at Atlanta, Port Royal, Macon, Cartersville and Cedar Town, in Georgia, and in Alabauna the city of Anniston consumes a large proportion of the coal and nearly all the coke. At present, however, the railroad facilities for shipping to Anniston are not as good as they ought to be on account of a break of gauge making neces-sary a transfer from the East & West Railroad to the East Tennessee, Virginia & Georgia Railroad.

MANGANESE PRODUCTION OF THE UNITED STATES.*

Bv R. A. F. Peprose, Jr. Ph. D.

The production of manganese ore in the United States in 1892, inde-pendent of manganiferous iron ores, manganiferons silver ores, and manganiferous zinc ores, was about 17,000 iong tons. The production for the census year 1889 was 24,197 iong tons, valued at \$240,559, or \$9.94 per ton; while the largest annual production in this country was that of 1887, when 34,524 long tons were mined. The total production of manganese ore in the United States from the time it was first mined, over 30 years ago, up to December 31st, 1892, has been almost 300,000 tons. As the United States consumes annually something over 50,000 tons of manganese ore in the various industries to which this material is applied, during the year 1892 it produced less than 50% of its con-sumption. The remainder came mostly from Cuba, Canada, Russia and Chile. Manganese has been found in many places in North America, but it

Sumption. The relation result is many places in North America, but it Manganese has been found in many places in North America, but it has been mined profitably in only a few of them. At present Virginia, Georgia, Arkansas, Colorado, and to a lesser degree California and the Canadian Provinces of New Brunswick and Nova Scotia furnish prac-tically the entire output of the United States and Canada. Vermont has in the past produced a considerable amount of manganese and manganiferous iron ores, but at present its mines are idle. Small quan-tities have also been mined in Pennsylvania, Tennessee, North Carolina, South Carolina, Missouri, Michigan and Nevada, but the production of these States has been insignificant. Manganese occurs in Central Texas, but no ore has been shipped from that region; it has also been found in Alabama, though no important deposits have yet been de-veloped.

found in Alabama, though no important deposits have yet been developed.
Virginia, up to the present year, has always been at the head of the manganese producers of this country. Georgia has usually been second, with Arkansas third. In 1892, however, Arkansas produced probably more than Virginia in 1892, however, Arkansas produced probably more than Virginia in 1892 was unusually small, being only about 5,000 tons. This was due to the fact that the principal producer in that State, the Crimora mine, was closed the larger part of the year. The production of Georgia was about 2,000 tons. In Arkansas there was unusual activity, and the produced before in any one year. Colorado produced about 4,000 tons of ore, containing from 25% to 40% of manganese. In Canada, which usually furnishes an important quantity of the ore, only 85 tons were mined in 1892, and this amount came from the Provinces of New Brunswick and Nova Scotia and from the Magdalen Islands. The island of Cuba shipped about 18,000 tons in 1892.
The above six regions, therefore—that is, Virginia, Georgia, Arkansas, Colorado, Canada and Cuba—produced in 1892 about 35,085 tons of manganese ore, which quantity represents almost the entire mauganese production of North America in 1892.
Manganese was first mined in the United States in Tennessee, in 1837, but the production was small, and the amount mined there and elsewhere in the United States previous to 1880 is very uncertain. The figures in the table given herewith were compiled from the best available sources; those for 1892 were specially collected by the writer. The cheft market for manganese ores is found among the steel manufacturers.

urers, The metal manganese occurs in nature in a great number of different The metal manganese occurs in nature in a great number of different forms, but the only ones that are, according to present standards, ap-plicable to any considerable extent in the arts are the oxides and the carbonates. The latter, though of frequent occurrence in small amounts, are so rarely found in large quantities in America that the ox-ides represent practically all the ores of manganese now used in this country. Besides these, numerous other manganese-bearing minerals are found, which, on account either of their chemical composition or of their limited quantity, are not available as sources of manganese. In

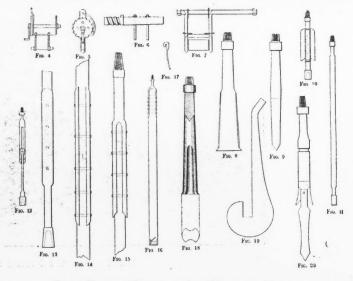
^{*} From "The Minerai Industry" for 1892. Copyrighted by the Scientific Publish-ing Company. The article contains, besides the extract here given, a full account of the various ores of manganese and their occurrence.

PRODUCTION OF MANGANESE ORES IN THE UNITED STATES.

Year.	Virginia, Long Tons.	Arkansas, Long Tons.	Georgia, Long Tons.	Other States, Long Tons.	Total, Long Tons
Previous to 1880	18,000	200	19,950	6,850	45,000
1880	3,661		1,800	300	5,761
1881	3,295	100	1,200	300	4.895
1882	2,892	175	1,000	375	4,582
1883	5,355	400		400	6,155
1884	8,980	800		400	10,180
1885	18,745	1,483	2,580	450	23,258
1886	20,567	3,316	6,041	269	80,193
1887	19,835	5,651	9,024	214	34,524
1888	17.646	4,312	5.568	1,672	29,198
1889	14.616	2,528	5,208	1,845	24,197
1890	12,699	5,339	749	6,897	25,684
1891	16,248	1,650	3,575	1,943	23,416
1892	5,000	6,000	2,000	4,000	17,000

some special cases, where such minerals are worked as a source of other metals, their residue has been profitably used for its contents of manganese. This is the case with the zinc ores of northern New Jer-sey, which contain a considerable percentage of manganese, and, after extraction of the zinc, the residue is used in the manufacture of spiegeleisen.

spiegleisen. Among other recent uses, manganese steel, on account of its remarkable combination of great hardness with great toughness, rec-ommends itself especially as a material for making car wheels. They must resist the abrasion of the brakeshoe and of the track, and should be at least moderately tough, so that they may endure safely the blows which they receive on striking frogs and crossings. Mine-car wheels, indeed, often strike other obstacles violently, and they are especially subject to abrasion, for in many mines they are set fast, or spragged, and slid down the whole length of the inclined road. Under these conditions cast iron wheels flatten quickly: thus far manganese these conditions cast iron wheels flatten quickly; thus far manganese steel wheels have never flattened. They excel cast iron wheels not only in toughness and endurance, but also in lightness, for manganese



TOOLS USED IN DRILLING OIL WELLS IN GALICIA.

steel is so strong and the methods of casting it are so well in hand that wheels made of it are very much lighter than cast iron wheels can safely be. A little over a year ago mine-car wheels of manganese steel were set at work in a large Pennsylvania anthracite mine. They gave such remarkable results that their use is now spreading rapidly through the anthracite region, and should also extend widely in other mining regions, especially in remote ones, where the freight charges are severe, and where, therefore, both great endurance and lightness are important. Making mine-car wheels is relatively simple; but in trying to make solid cast manganese steel railroad wheels serious difficulties were met. We understand that they have now been completely mastered, and that these wheels are soon to be offered in the market by the Taylor Iron and Steel Company, of High Bridge, N. J.

Volatility of Manganese.—At a recent meeting of the Academy of Science in France, M. S. Jordan presented a note giving some experi-ments recently made by Messrs. Lorenz and Hoesler, which fully con-firm the statement previously made by him that manganese could be volatilized at the temperatures obtained in metallurgical furnaces. The experiments mentioned were undertaken to ascertain whether manganese would combine with carbonic oxide, and were mede with The experiments mentioned were undertaken to ascertain whether manganese would combine with carbonic oxide, and were made with a gas furnace designed by them. The results proved: 1. That in a current of carbonic acid passed through a porcelain tube over metal-lic manganese heated to a white heat part of the gas was reduced by the metal, while at the same time a part of the metal itself was volatilized. 2. When the current was of carbonic oxide there was still volatilization of part of the metal, while the flame proceeding from the end of the tube showed in a spectroscope indications of the pres-ence of manganese. 3. In a current of dry hydrogen identically the the end of the tube showed in a spectroscope indications of the pres-ence of manganese. 3. In a current of dry hydrogen identically the same phenomena were observed. 4. In a current of nitrogen, the phenomena of volatilization of the metal were repeated, but the man-ganese did not combine with the nitrogen as chromium does. From these experiments Messrs. Lorenz and Hoesler concluded that carbonic oxide does not act upon the manganese, but that it is volatilized from the metallic form at a temperature a little above its fusing point.

THE PETROLEUM INDUSTRY OF AUSTRIA-HUNGARY.*

By Arthur W. Eastlake

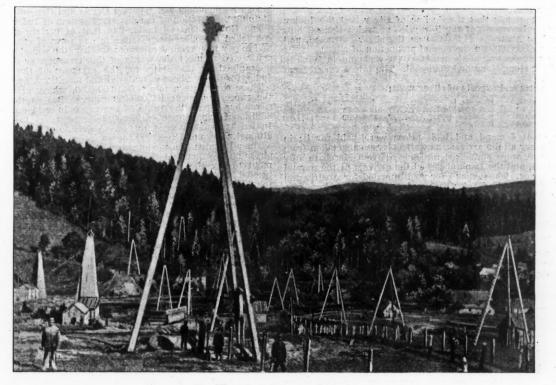
In the Province of Galicia the oil springs have existed from time immemorial, but the active development of the industry dates only from the introduction of the Canadian system of drilling, in 1882, since which time it has made rapid strides. Previously the method of ob-taining the oil was rude and primitive, even after the introduction of steam power, and it was considered a creditable achievement to sink a well to such depths as 200 ft. or 300 ft., an operation which took many months. The Canadian system of drilling may be said to have completely revolutionized the industry. It has now almost totally superseded all other methods of drilling, and wells of 1,200 ft. or even 1,500 ft. are constantly being sunk. The oil zone is situated on the northern flanks of the Carpathians, and extends from Neu Sandez in the west to Sloboda-Rungorska, near Kolonea, in the east, a distance of about 220 miles, the oil belt being about 40 miles in width. Its general direction is northwesterly and southeasterly. The oil industry in Austria-Hungary is protected by an import duty of 10 florins per 100 kilograms on refined oil, and 2 florins 40 kreutzers on crude petroleum. Galicia does not produce sufficient oil to supply the re-quirements (1,750,000 barrels) of the Austrian-Hungarian Empire, and the deficiency (750,000 barrels) is chiefly imported from Russia. Common labor is plentiful and cheap in Galicia, 20 cents to 25 cents per day being the average wage. Skilled labor, however, is not so abundant; indeed, it is frequently difficult to obtain a really good smith, carpenter or machinist. The men working at the drilling rigs, as pole-wrenchers and scaffold-men, obtain from 40 cents to 50 cents In the Province of Galicia the oil springs have existed from time

landowners. The small plots of land held by the peasants can be obtained much cheaper. In this case, as a rule, a small sum ranging from \$25 to \$100, and a royalty of a few dollars on each productive well sunk, paid to the peasant proprietor, will satisfy him for the grant of mining rights for 25 years, and in other cases a royalty of 1 to 5% is paid.

In locating wells it is the general custom to secure the services of the best-known geologist of the district. In commencing the development of a new territory, the best course to pursue is to ascertain the direc-tion of the oil-belt by trial shafts, examination of outcrops, shows of oil and other indications, and then to sink wells across it about 75 to 100 ft

oil and other indications, and then to sink wells across it about 75 to 100 ft. apart. A property would not be considered as properly tested if less than four or five wells had been drilled. Many systems of drilling have been tried in Galicia, but the Canadian system, adapted and modified to suit the requirements of the country, has now practically superseded all the others. For this the derrick and engine employed are very similar to those used in America. The tools used are shown in the accompanying illustration; they include poles, jars, sinker-bars, guides, bits, chisels, sand pumps, reamers, wrenches, fishing tools and others, which oilmen will readily recognize. The larger engraving is a view in the oil regions showing several drilling rigs.

recognize. The larger engraving is a view in the oil regions showing several drilling rigs. In drilling a well the work is done in 12-hour shifts from noon until midnight, and from midnight to noon. The average time in which a well of 1,000 ft. is drilled in Galicia on the Canadian system with Canadian drillers is about 58 days, although many wells are sunk in six weeks or even in less time. In the Sloboda-Rungorska field a well has been put down 680 ft. in 18 days, and at Kryg a well of over 600 ft was finished in less than a week. ft. was finished in less than a week



OIL WELLS IN GALICIA, AUSTRIA.

per day of 12 hours. The wages of a good smith vary from \$25 to \$40 a month. Other men who have any claim to be reckoned as crafts-men get on an average about \$25 a month. Galiclan drillers get about \$50 a month, and often a certain small sum (generally a florin, or say 40 cents) for each metre drilled. The drilling is often taken by con-tract at prices ranging from \$1.50 to \$2 per foot, the contractor finding the labor required for the actual drilling, and the owner of the well providing the necessary plant, machinery, motive power and all other labor. The quality of the petroleum obtained in Galicia varies considerably in different parts of the country, ranging from a heavy dark-green colored oil, with a specific gravity above 0.900 to a light reddish-brown colored oil with a specific gravity below 0.800. One of the petroleum properties, under the nanagement of the author, yielded oil which burnt with ease in ordinary lamps without undergoing any process of refinement. This kind of oil is obtained at several places in Galicia, but has never been found in any considerable quantity, the wells sunk in this class of strata yielding as a rule only from half a barrel to two barrels per day. The specific gravities of the oil pro-duced on the same property, and from wells close to each other, vary considerably. Refiners state that the percentage of burning oil varies from 40% to even as high as 70%. In the author's opinion the average would be about 50%. Oll territories in Galicia are generally leased for 25 years, and the

from 40% to even as high as 70%. In the author's opinion the average would be about 50%. Oil territories in Galicia are generally leased for 25 years, and the royalty payable to the lessor ranges from 10 to 40%, together with, in most cases, a certain amount in cash. The lessee has also to pay for any damage to crops, etc., and a small sum per annum for all land occupied by him. This statement applies chieffy to estates of large

* Abstract of a paper entitled "Observations on Petroleum in Eastern Europe, and the Method of Drilling for It." read before the Federated Institution of Mining

There are very few pipe lines in Galicia, the oil being mostly carted in barrels from the wells to the nearest station, a tedious, wasteful, and therefore costly and inefficient way of dealing with it—the roads on the lower slopes of the Carpathians being, except during a few months of the year, either covered with 3 ft. or 4 ft. of snow or knee deep in mud.

Low Prices for Steel Rails.—A contract for 12,000 tons of steel rails for the Imperial Chinese line was recently taken by Bolckow, Vaughan & Co., of Middlesborough, England, at about \$18 per ton f. o. b. at the works. Belgian and German makers competed for the order.

Mining in Newfoundland.—Sir Terence O'Brien has forwarded to the British Colonial Office a report on the condition of Newfoundland during the year 1891, in which it is stated that mining statistics for the year show an increase in value of double that of the previous year. The shipments of copper and other ores were in 1891: Ingots, 1,139 tons; regulus, 3,626 tons; green, 7,060 tons, valued at \$565,850; antimony, valued at \$1,250; iron pyrites, 19,150 tons, valued at \$57,900; selenite, 250 tons; valued at \$1,200. Asbestos properties inland from the west coast have been worked by local and foreign capital. 'No shipments of that mineral were made during the year, but the reports from the several mines were encouraging. The geological survey for the year revealed the existence of valuable deposits of coals and other minerals in the vicinity of Grand Lake. In connection with the coal there are extensive clay-fron deposits of good quality, that free-stones,' grindstones, and 'whetstoifes are abundant among' the coal measures, and that a great number of fireclay beds occur within the section. Marble is also met with near the upper end of the Grand Lake, and immense deposits were discovered on the Upper Hum-ber, not far from the shores of White Bay. Mining in Newfoundland .- Sir Terence O'Brien has forwarded to

THE PRECIOUS METALS IN 1892.

By Arthur Raffalovich

The following paper, translated from the French of Mr. Arthur taffalovich, has been courteously communicated by Mr. Preston, Raffalovich, has been cour Acting Director of the Mint:

Raffalovich, has been courteously communicated by Mr. Freston, Acting Director of the Mint: The year 1892 was not a fortunate one for the producers or holders of the white metal. The average price of the year, 39 13-16d. London, was 5¼d., or 11½%, lower than that of 1891, which, in turn, was 4½% lower than the average price of 1890. At the beginning of 1892 silver was worth 43¾d.; the price gradually weakened until the end of March, when it touched 39d.; this was the lowest point of the first six months; the decline accompanied the rejection of the Free Coinage Bill in the United States, the passage of which was seriously believed in by few, but the failure of which, nevertheless, caused the price of silver to fall from 41d. to 39d. Low prices brought purchasers; orders from Spain and an improvement in exchange in India caused a reaction, and during the three following months the price fluctuated between 39¼d. and 40½d. At the end of July another decline occurred, which reached its extreme point, 37%d., in the middle of August. Prices remained stationary between 38¼d. and 38¼d. At the end of October the mar-ket became a little firmer, the idea of a solution by the Brussels Inter-national Conference having exercised an influence on the bankers and speculators of India; purchases brought the price up to 39d; when the conference adjourned, December 20th, the price of fine silver was 37 15-16d. The year closed at 38 5-16d. During the last weeks of 1892 there was quoted only disposable silver by the first steamer to sail for India; the reserve of purchasers was ex-plained by this uncertainty as to the restrictive measures which the Government might decree. Mr. A. del Mar pretends that the decline of silver cost the Indian Treasury #5000000 by reason of the low price at which Council bills

Government might decree. Mr. A. del Mar pretends that the decline of silver cost the Indian Treasury £5,000,000 by reason of the low price at which Council bills are sold in London; Australia £1,500,000 on the silver extracted, and the United States £5,000,000 on the annual production of silver. A large business, amounting to about £4,000,000, was done in Mexican dollars required for Hong-Kong and Shanghai. The prices varied from 42.3.164 to 3674d.

42 3-164. to 36%d. The English imports and exports of silver were:

Year. 1888 1889 1890	Imports, £6,000,000 9,000,000 10,300,009		1891 1892	Exports. £11,800,000 14,075,000	
1899	10,300,009	10,000,000			

Gold was in great demand and high prices were paid for it; in January and February all the arrivals, as well as large sums taken from the Bank of France, were purchased for Russia; from March to July this demand ceased, and the Bank absorbed the arrivals at the normal price, £3 7s. 9d. per oz. The demand for gold intended for Austria and Russia revived at the end of July; bars and foreign pieces were pur-chased at from 1d. to 3d. above the Bank price. Although less gold came from the United States, £2,000,000 more came from Africa, and £4,000,000 more from India, China and Japan. I here give the move-ment of gold in England:

Year.	Imports.	Exports.		Imports.	Exports.	1
1888 1889			1891 1892		£25,000,000 15,450,000	
1890	23,900,000	14,250,000			20,100,000	

The following table which I borrow from Mr. Clement Juglar, has the merit of clearness and conciseness; it shows the divergences of the production of the white metal and the prices:

		Silver produc	ction in ounces.	Price in pence.		
Years.	Number.	Inorease.	Annual Av.	Decline.	Ann'l Av.	
1861-'73 1873-'76 1876-'78 1878-'83 1883-'89 1883-'89	3 2 5 6	27,800,000 5,500,000 5,700,000 15,700,000 36,300,000 18,100,000	3,006,000 1,800,000 2,800,000 3,100,000 6,000,000 9,000,000	$\begin{array}{r} 2.25 \\ 6.50 \\ 6.50 \\ 6.25 \\ 7.75 \\ 5.00 \end{array}$	0.18 2.18 2.18 0.44 1.29 2.50	

1892, a speech on the decline of silver, of which we here paraphrase an instructive fragment: The principal remedies which have been proposed to counteract this fall are: Bi-metallism, the closing of the mints of India, the adoption of the gold standard. With respect to bi-metallism it must not be forgotten that the annual production of silver during the last thirty years rose from £8,000,000 to £20,000,000, while that of gold fell from £27,000,000 to about £21,000,000. Hence, therefore, a decrease of gold, while the production of silver more than doubled. If, therefore, the annual production of the sight of that gold and silver are used for other purposes than conage; their uses for other purposes are

* Russian member to the Conference in Brussels.

enormous. Is it conceivable that a fixed ratio can be maintained be-tween two metals in their use in the arts? If not, it seems evident that it cannot be done in their use in coinage. Sir John Lubbock, therefore, does not believe that England will become bi-metallist. The adoption of a gold standard for India would not produce the desired adoption of a gold standard for India would not produce the desired effect, unless the rupee, at present a standard coin, were reduced to a simple divisional coin, like the fractional coin of England. This also would necessitate the closing of the mints to the coinage of silver. This measure would be opposed by all those who believed in the appreciation of gold, because its tendency would be to create a new and considerable demand for gold which would increase its value, i. e., in other words, lower prices in gold. Moreover, this question of the closing of the Indian mints should be discussed solely from the Indian point of view. Without closing its mints, it is well to inquire whether the Govern-ment of India might not impose a coinage duty, although not so high a one as exists in England. If this were done—if, for instance, a duty of 2s. were laid, and if silver remained at its actual level, the value a one as exists in England. If this were done—if, for instance, a duty of 2s. were laid, and if silver remained at its actual level, the value of the rupee would rise gradually 10% and perhaps more. Even a higher duty would be less than that required in England for the coinage of silver. Evidently the rupee should not change, and a duty should be imposed on those who wanted to coin silver. In this way the Gov-ernment would not only derive a profit from the coinage, but would be benefited by the improvement of the rupee. The fluctuations of exchange would likewise be stopped. This system would not give rise to the objections which other propositious would not fail to suggest, and, although the coinage of silver in England is only subsidiary, while that of India is of standard coins, nevertheless Sir John Lubbock does not think that a conclusive objection, and believes that the plan merits

and, although the coinage of sliver in England is only subsidiary, while that of India is of standard coins, nevertheless Sir John Lubbock does not think that a conclusive objection, and believes that the plan merits to be taken under consideration by the Government of India.* A Royal Commission, presided over by Lord Herschell, and having among its members Mr. Bertram Currie and General Strachey, are ex-amining the question of the monetary system of India.† The Government of India, like that of certain other countries, is compelled to collect its revenues in one form of currency (the rupee), and to pay its foreign creditors in another (the pound sterling), for debts contracted to meet the wants of the Treasury, or debts for railways guaranteed by the State, for the expenses of the English army in India, for the purchase of material and munitions, and for pensions. These constitute a total of £16,000,000 rupees. But as the depreciation of silver has forced the value of the rupee in gold down to 1s. 3d., an additional expenditure of 90,000,000 rupees has to be borne by the Indian Treasury in consequence. A decline of a penny means an ad-ditional charge of 18,000,000 rupees. The advocates of a modification of the monetary system of Iudia lay stress on the fact that the instability and the fall compel the Govern-ment to tax the ratepayers in order to meet the engagements con-tracted with the mother country. The loss in exchange is severely felt by the officials, who have to make remittances for life insurance premiums, for investments of their savings, the support of their fam-ilies, the education of their children in England, and, it is claimed, that a lower grade of men will have to be found to fill their places. The difficulties of India arise in great part from the fact that its debt to the mother country—a debt covered by drafts of the Government on the Indian Treasury—has been on the increase.

The following table is very instructive in this connection :

Period.	Imports of silver into India.	Amount of Council bills.	Rate of exchange.		
1855-56 to 1859-60 1860 61 '' 1864-65 1865-66 '' 1869-70 1871 72 '' 1874-75 1875-76 '' 1879-80	49,700,000 47,100.000 15,900,000	Rs. 4,900,000 23,600,000 27,400,000 56,800,000 64,400,000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

As well as this other, giving the value of the trade in millions of rupees :

Period.	Merchandise exported to England.	Merchandise imported from England.	Merchandise exported to China and the extreme East.	Merchandise imported from Chiny.
1871-'2 to 1875-'6 1876-'7 '' 1880-'1 1881-'2 '' 1885-'6 1886-'7 '' 1890-91	Rs. 1,454,000,000 1,419,000,000 1,752,000,000 1,786,000,000	Rs. 1,376,000,000 1,642,000,000 2,057,000,000 2,507,000 000	Rs. 716,000,000 832,000,000 825,000,000 923,000,000	Rs. 110,000,000 134,000,000 175,000,000 221,000,000

Stamping of English Manufactures.—According to the "Bulletin" of the British Iron Trade Association, a motion was introduced at the last meeting of the Board of Managers by Mr. Francis Bolling, to the effect that steps should be taken by the association with a view to having manufactured iron and steel regularly stamped as of British manufacture. The proposal was discussed at some length and was warmly approved of, and a committee was appointed to frame a suit-able address on the subject.

Treatment of Refuse Pyrites.—In a series of experiments made re-cently and reported to the Industrial Society of the North of France, Messrs. Blattner and Koestner found that when they passed a current of chloral hydric acid in a gaseous form through the refuse of copper-bearing pyrites, heated to a certain temperature, the chloral hydric acid did not combine with the oxide of iron, but only with the cop-per, thus making it soluble in water; at the same time a notable pro-portion of the acid was decomposed by the action of the pyrites, setting free chlorine, the action being very similar to the copper bricks in the Deacon apparatus. This process, if it can be earried out on a commercial scale, will make it possible to extract all the copper re-maining in the pyrites, and will serve also for the production of chlorine.

The above are not Sir John Lubbock's own words, but a re-translation from the enon of what he has said in English.-Translator. t.This report has now been completed, and is referred to elsewhere.

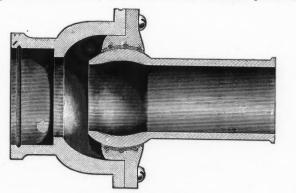
RECENT DECISIONS AFFECTING THE MINING INDUSTRY.

Supreme Court of California.

Supreme Court of Odlifornia. Location of Mines in Agricultural Lands. A location of a mine is not invalid, as against a subsequent location, because a portion thereof was made on agricultural land, which was afterward patented, where the agricultural land could be profitably worked only by commencing on the other portion of the location, and the money expended on such other portion was sufficient to make a valid location of the whole, the subsequent locator not connecting his claim with the holders of the agricultural patent.—Richard versus Working, April 27th, 1893. 32 Pac. Rep. 971. Duty of Managing Partner to Disclose. An absent partner in a mining venture offered to sell his interest to from ananging partner for a stated consideration, in the belief that the property was not valuable, and that there were no promising indica-tions of paying ore. The managing partner had before this stated, in a letter to his brother, that the indications were very promising, and hority after a local paper announced that a small quantity of ore had been, and more was expected to be, found. The same paper after-ward announced that the expectation had been realized. Thereafter a contract was signed by the managing partner receiting that a "lode or vini is now by all believed to have been struck," and the managing partner condition of the mine, and a sale on the terms offered by the the true condition of the mine, and a sale on the terms offered by the basent partner, who continued ignorant of the discovery, could be partner bartner, who continued ignorant of the discovery, could be partner bartner, who continued ignorant of the discovery, could be partner bartner, who continued ignorant of the discovery, could be partner bartner, who continued ignorant of the discovery, could be partner bartner, who continued ignorant of the discovery, could be partner bartner, who continued ignorant of the discovery, could be partner bartner, who continned ignorant of the discovery bartner to disclose

THE FALCON PLEXIBLE JOINT FOR PIPES.

The accompanying illustration shows a ball joint especially designed for pipes iaid under water, which has been invented and patented by



THE FALCON FLEXIBLE PIPE JOINT.

Mr. Joseph G. Falcon, of Evansville, Ill. The arrangement and con-Mr. Joseph G. Falcon, of Evansville, Ill. The arrangement and con-struction of the joint will be readily understood from the drawing, which shows it in section. The advantages claimed are that it is a strong joint; it does not close any of the opening; no matter at what angle it is set, the bell being large, there is plenty of room for water to pass; the lead packing covers a long space on the body of the bail, insuring its tightness; it is calked on both inside and outside. It is also easy to connect under water, and can be made to stand 200 lbs. pressure or over. This joint has been used in a number of cases with good results. good results.

THE MINES OF NEW JERSEY."

THE MINES OF NEW JERSEY." The Legislature of New Jersey, at its session in 1892, passed an act authorizing the appointment of a commissioner of mines. Under this act, Mr. Robert O'Hara, of Phillipsburg, was appointed commis-sioner, and he has submitted his first report, covering the period from his appointment, in March, to the close of 1892. The report states that the mines now in operation are in Warren, Sussex and Morris counties; they are 24 in number, 18 of which are producing iron ore, four zinc, one ochre for use in the manufacture of paint, while the remaining one has produced, but is not yet shipping, copper. In these mines 1,827 men are employed; 1,384 underground and the remaining 443 on the surface. In all 58 steam engines and 93 boilers are in use for hoisting and other purposes at the mines. The mines of New Jersey—at least those now in operation—are not as a rule very deep, and the commissioner says that in all of them natural ventilation is depended upon to clear the workings of impure air. During the period covered by the report seven accidents have occurred, five of them being fatal, most of them being caused by fall of rock or by mishaps to the hoisting apparatus. The commissioner having been in office long enough to study the workings of the law, makes a number of suggestions, among which

The commissioner having been in office long enough to study the workings of the law, makes a number of suggestions, among which are the following: A second outlet to be provided at each mine; ac-curate surveys and maps to be provided at all mines; ladders and landings to receive more attention; safety appliances to be provided for hoisting apparatus to work in case of breakage of ropes or to prevent over-hoisting; a careful inspection of hanging walls and their supports to be made at frequent intervals. He also recommends that surveys and maps should be filed with the commissioner; that all new mine openings should be reported to him, and that prompt reports of all accidents should be required. As a further preventive of accidents

* Abstraot from report of Robert O'Hera, Commissioner of Mines of New Jersey.

aband med workings should be securely covered and the storage of quantities of explosives in the mines should be prohibited. Some of the milles are well provided with hoisting apparatus of recent date and other modern appliances, but in others the plant is old and some of the appliances out of date. The commissioner has recommended a number of improvements during his visits to the mines, and reports that his suggestions have generally been complied with. The iron mines now in operation in the State are the Crow, Cham-pion, Fellows, Queen, No. 3, Shoemaker and Washington, in Warren Connty; the Hurd, Iron Hill, Mount Hope, Mt. Pleasant, Orchard, Upper Weldon, Lower Wood, Richard and Wharton, in Morris County; the Edison, in Sussex County. The zinc mines are the Passaic, Parker, Taylor and Trotter, all in Sussex County. The ochre mine is a new opening recently made near Hamburg, in Sus-sex County. sex County.

PATENTS PUBLISHED IN GREAT BRITAIN.

The following is a list of the patents published by the British Patent Office on subjects connected with mining and metallurgy :

WEEK ENDING JUNE 17TH, 1893.

WEEK ENDING JUNE 17TH, 1893. 10,354 of 1892. Galvanizing Apparatus. H. J. Walduck, Tipton, Staffordshire. 13,123 of 1892. Sorting and Loading Coal into Cars. W. Hay, Burton-on-Trent. 13,318-9 of 1892. Miners' Safety Lamps. J. Thorne, London. 13,399 of 1892. Molding Machines. W. Edgar, Sandford, Fla. 13,542 of 1892. Electrolytic Cells. F. F. and A. S. Elmore, Leeds. 4,027 of 1893. Annealing Furnaces. A. J. Boult, London (C. Hencken, Aix-la-Charelle). 6,922 of 1893. Electric Furnaces. W. Mitchell, Malden, Mass. 8,315 of 1893. White Lead. H. H. Lake, London (W. B. Browne, Cambridge, Mass.)

PATENTS GRANTED BY THE UNITED STATES PATENT OFFICE.

The following is a list of the patents relating to mining, metallurgy and kindred subjects issued by the United States Patent Office: TUESDAY, JUNE 27TH, 1893.

500,114. Mining Car. Hemlet Corrigan and Hardman E. Fulkerson, Smith's Mills, 500,114. Mining Car. Hemlet Corrigan and Hardman E. Fulkerson, Smith's Mills, Pa.
 500,124. Coal Drill. Charles Grotz, Ottumwa, Ia., Assignor to the Hardsocg Manu-facturing Company, same place.
 500,128. Electric Motor and Uynamo Electric Machine. Rudolnh M. Hunter, Phil-adelphia, Pa., Assignor to the Thomson-Houston Electric Company, of Connecticut.
 500,135. Electric Motor. Charles S. Jones, Chicago, Ill. Susan H. Jones, executrix of said Charles S. Jones, deceased.
 500,137. Composition of Matter for the Extraction of Precious Metal from Ore. Edward D. Kendall, Brooklyn, N. Y.
 500,112. Well Drilling Machinery. Joseph G. Lee, Dallas, Tex., Assignor of one-half to Rohert E. Lee, same place.
 500,206. Test-Tuhe. Edward, Forest Hill, England.
 500,216. Cask for Petroleum. John D. Sprunt, London, England.
 500,230. Electric Generator and Motor. William Stanley, Jr., and John F. Kelly, Pitsfield, Mass., Assignors to the Stanley Laboratory Company, same place.
 500,301. Electric Generator and Motor. William Stanley, Jan, and John F. Kelly, Pitsfield, Mass., Assignors to the Samuel Fabringer Mahango Gitz

place. Slate Picker. Frederick Stoeekel and Samuel Fahringer, Mahanoy City, 500,302. 500.333.

500,340. 500,345.

500,386. 500,387. 500,400.

590,410. 500,424. 500,445. 500,495.

State Picker. Frederick Stoeekel and Samuel Fahringer, Mahanoy City, Pa.
Gas Manufacturing Apparatus. William A. Koneman, Chicago, Ill., Assignor to the Chicago Heat Storage Company, same place.
Wind Engine. Samuel W. Martin, Springfield, O., Assignor to the Mast. Foos & Co., same place.
Shield for Metal Rolls. Theophilos D. Morgan, New Philadelphia, Assignor of one-half to John Ashton, Canal Dover, O.
Iron Notch for Blast Furnaces. John M. Hartman, Philadelphia, Pa.
Blast Furnace. John M. Hartman, Philadelphia, Pa.
Dynamo Electric Machine or Motor. Philip Lange, Pittshurg, Pa., Assignor to the Weslinghouse Electric and Manufacturing Company, same place.
Furnace for Annealing Wire. James McConnell, Anderson, Ind.
Apparatus for Dredging and Pumping. Joseph A. Wade and John Cherry, Hornsee, England.
Asphalt Disintegrating Boiler. Alfonso Haskins, San Francisco, Cal., Assignor to the Jordan Bluminous Rock Company, same place.
Sectional Boiler. William H. Page, Norwich, Conn., Assignor to the Wrm.
H. Page Boller Compuny, same place. 500,507. 500.514.

DIVIDENDS PAID BY MINING COMPANIES DURING JUNE, 1893.

NAME OF COMPANY.	l'aid in June.	Paid since Jan. 1st.	NAME OF COMPANY.	Pald in June.	Paid since Jan. 1st.
Alaska Tr'dw'll, Alaska	\$150,000	\$975.000	Lexington, Colo	2 000	10.000
American Turquoise		60,000	Maid of Erin, Colo	3,000	18,000
Aspen, Col	20,000	90,000	Mard of Erill, Colo	10.000	150,000
Aspen, Colore N II		20,000	Mayflower Gravel, Cal.	10,000	60,000
Belden Mica, N. H	5,000	200,000	Minnesota Iron, Minn.	10000	420,000
Blmetallic, Mont				150,000	900,000
Calumet & Hecia, Mich.		500,000		7,200	43,200
Centennial – Eureka,	15 000	105 500	Napa Cons., Cal		40.000
Utah	15,000		North Star. Cal	50,000	100,000
Champion, Cal	3,400	20,400	Osceola, Mich		50,000
Cleopatra	37,500	225,009	Pacific Coast Borax		15,000
Colorado Central, Colo.		27,500	Parrott, Mont	- 18.000	108,000
Colorado Fuel Co., Colo.			Pharmacist, Colo	12,000	48,000
Cons. New York, Nev		10,000	Plumas, Eureka, Cal		26,367
Copper Queen, Ariz		200,000	Quincy, Mich		150,000
Dalv, Utah		187,500	Red Cloud, Idaho		10,000
De Lamar. Idaho		250,000	Rico-Aspen, Colo		25,000
Elkhorn, Mont	65,625	153,125	Seven Stars, Arlz		97,500
Enterprise, Colo	25,000	150,000	Sierra Butte, Cal		15.318
Golden Reward, S. Dak.	5,000	30,000	Standard, Cal		10,000
Great Western Quick-			Tamarack, Mich	200,000	200,000
sllver, Cal	12,500	75,000	Trinity River Hydrau-		
Hecla Con., Mont	15,000	90,000	lic, Colo	2.500	12,500
Homestake, S. Dak	12,500		Utah, Utah		5.000
Hope, Mont		125,000:	Victor	10.000	50,000
Horn Silver, Utah	87.590	137,500	W. Y. O. D., Cal	3,000	18,000
Idaho. Cal		46,500		0,000	10,000
Iron Mountain, Mont	15,000	15,000	Total	934.725	E 000 005
Kennedy, Cal		50,000	10001	331.123	5,699,025

Readers of the "Engineering and Mining Journal" will confer a favor on the pub-ishers if they will notify the "Journal" of any errors or omissions in the above able. Second. 1. 31 - M. A. S. A.

PERSONALS

Mr. Henry F. Lefevre, mining engineer, has gone to South America on professional business. Let-ters addressed to Panama, Republic of Colombia, will reach him.

Mr. Leo von Rosenberg, of New York, has gone West on a business trip relating to some mining properties. His address for the present will be at Brown's Palace Hotel, Denver, Colo.

Mr. M. S. Berray, foreman of the Old Dominion Copper Company, at Globe, Ariz., has been ap-pointed superintendent, to sncceed Mr. A. L. Walker, whose resignation was noted in our last Copper vointed

Prof. S. B. Christy, of the chair of mining and metallnrgy, at the University of California, has been inspecting the mining industry of Amador County, California, accompanied by a number of his students

Mr. Wm. M. Curtis, mining engineer, of Detroit, Mich., who has been ill since last October, from ty-phoid pneumonia, and its after effects, contracted on a hard professional trip throngh Arizona, California and Washington, has now so far recovered that he is now able to attend to business.

Mr. A. G. Charleton, mining engineer, leaves Argeles, France, for England early in July, having completed an elaborate survey, with plans and esti-mates for a large concentration plant for treating silver-lead and zinc ores, which he was especially commissioned to prepare for the New Pierrefitte Mining Company.

Mining Company. Mr. Victor M. Clement, mining engineer, lately general manager of the Bunker Hill & Sullivan Mining Company, of Wardner, Idaho, and formerly superintendent of the Minas Nuevas Mining Com-pany, of Alamos, Sonora, Mex., and mill superin-tendent of the Triumpho Mining Company, of Lower California, is now in this city en route to Sonth Africa, where he will fill an important posi-tiou for Barnato Brothers, the well known mining men of the Transvaal. Mr. Clement's long experi-ence in the gold mines of Grass Valley will un-doubtedly render him an important factor in the success of the South Africa gold mining industry.

OBITUARY.

George P. Bangs, of the firm of Bangs & Hor-ton, well known coal dealers, of Boston, Mass., died in that city on Jane 28th.

G. H. Brown, a well known iron merchant, of Pittsbnrg, Pa., died suddenly of heart failure at Chicago, on June 27th, aged 58 years.

Chicago, on June 27th, aged 58 years. George W. Bowers, one of the owners of the noted Harqua Hala mines, in Arizona, died at his residence at San Francisco, June 17th. He was a native of New Hampshire, and at an early age went to the West, where he had a varied career as cattle speculator and miner. In 1868 he became identified with sev-eral mining enterprises in Arizona, among his for-tunate investments being an interest in the Cliff silver mine, at Casa Grande, and the Tiger mine, at Prescott. In 1889, in conjunction with A. J. Hubbard, he invested in the Harqua Hala mines, at that time regarded doubtfully by mining men, and had since reaped a rich reward for his foresight. Mr. Bowers was within a month of being 65 years of age, and leaves a widow to whom will pass his estate, valued at over \$1,000,000.

SOCIETIES AND TECHNICAL SCHOOLS

American Society of Civil Engineers.—At the regnlar meeting, June 21st, Mr. J. A. Ockerson read an interesting paper on the "Erosion of Banks of the Mississippi and Missonri Rivers." A brief discussion followed.

discussion followed. General Mining Association of Qnebec.—The July meeting will be held at Sherbrooke, July 5th and 6th. On the first day there will be a business meet-ing in the morning, and an afternoon session at which several papers will be presented. In the evening there will be a reception given by the local authorities. The second day will be occupied by an excursion on Lake Memphremagog.

an excursion on Lake Memphremagog. Engineers' Club of Cleveland.—At the regular meeting June 13th, the Committee on the Colum-bian Exposition made a report of progress, which was approved. A committee was appointed to make arrangements for the annual pienic of the club. Mr. James Ritchie read a paper on "Pre-liminary Snrveys for a Railroad." which was dis-cussed by a number of the members present.

University of Pennsylvania.—A new building has inst been completed for the mechanical and elec-trical laboratories, which is very completely equipped with apparatus in both departments. The main building is three stories in height and there is a wing one story high, containing the boilers. The engines are in the basement of the main build-ing. The power is used to light the University buildings as well as for the purposes of the labora-tory.

American Society of Mechanical Engineers.-At a meeting of the council. held June 22d, the fol-lowing minute and resolution were adopted:

It having come to the knowledge of the council of the American Society of Mechanical Engineers, that the Iron and Steel Institute of Great Britain has recently bestowed npon a member and exvice-president of the Society the Bessemer medal for 1893, the conncil avail themselves of this occasion to tender their congratulations to Mr. John Fritz on the receipt of snch a well merited and distin-guished honor from his friends beyond the sea. The conncil desires to commend the excellent judgment of the Iron and Steel Institute in select-ing for this honor one who by his genius, skill and industry throngh many years, has done so much toward the improvement of metallurgical proc-esses, especially in the construction of the me-chanical appliances now in nse in the manufacture of iron and steel in this country, as to have ma-terially aided in making this industry the important one it now is.

of roln and steel in this country, as to have ma-terially aided in making this industry the important one it now is. That in conferring the Bessemer medal in this, the year of our Columbian Exposition, npon an American engineer, the Institute has in a pleasant way added further evidence of the kindly feelings and hearty good-fellowship which in so many ways have of late marked the action of engineering so-cieties, and engineers in this contry and in Enrope; and we cannot but believe courtesies like this tend to a closer union of engineers in all lands; that while it is the mission of our profession to compel the rnde forces and materials of nature to contribute to the welfare and confort of mankind, it is its mission as well to bring in closer touch nations and individuals, and in this way to aid, in a degree, in which it would seem no other profes-sion can, to bring about those better days which in all ages past the world has hoped and struggled for.

and ages past the world has bode and struggled for.
American Institute of Mining Engineers.—The forth meeting of the Institute will be held at Chicago, III, beginning on Monday, July 31st, 1893. This meeting will be held in two sections, held second advisable, and constituting the deemed advisable, and constituting forgress, representing, respectively, mining and metallury. Headouarters will be held the Associated Engineering Headouarters, No. 10 Van Buren street, Chicago, where members attending the meeting are expected to register npon arrival, and will receive cards of admission to the sessions of all divisions of the said congress, and to the engineering quarters in the Mines and Mining Building, at the Exposition, from Mr. Max Schmidt, secretary of the General Committee of Engineering Societies, Columbian Exposition. The Associated Engineering Societies, Columbian Exposition. The Associated Engineering Societies, Columbian Exposition. The Associated Engineering Societies, at No. 10 Van Buren street, are congress, and to the engineering the adquarters, at No. 10 Van Buren street, are open from 8 a. m. to 10 p. m. on week days, and from 12 to 2 p. m. on Sundays.
The Congress comprises the following divisions: Division A.—Civil Engineering, in charge of the American Institute of Mining Engineers.
Division B.—Mechanical Engineering, in charge of the American Institute of Mining Engineers.
Division D.—Metallurzical Engineering, in charge of Marce al committee, Prof. 1. O. Baker, University of Mining Engineering, in charge of Marce and Struggled, Normor's Island, X.
The opening central session of the congress, will be held in fifterent balls in the same building, during the forenoors of Monday, Tuesday, Wate, Marged, Marged

tee in charge of the congress, and may be had at headquarters. There will be no special hotel headquarters. Members may write for further information to Mr. Max Schmidt, secretary of the Associated Commit-tee, No. 10 Van Buren street, or to Dr. David T. Day, secretary of the Institute Columbian Committee, 6235 Woodlawn avenue, Chicago, Ill. A large num-ber of papers have been promised for this meeting.

INDUSTRIAL NOTES

The Braddock Wire Works, at Rankin, Pa.. have shut down indefinitely. Over 700 men are thrown ont of work.

The Union Malleable Iron Company is increasing its works at Moline, Ill., by a new foundry 82×94 ft. in size.

The two Bird Coleman furnaces at Cornwall, Pa., have been blown out. About 300 men are thrown out of employment.

William B. Pollock & Co., Youngstown, O., are working on several large orders for smelting ma-chinery to go to Montana.

The Colorado Iron Works, at Denver, Colo., re-cently received an order for a 10-stamp mill and a complete plant to go to Arizona.

The Lloyd-Booth Company, in Yonngstown, O., recently shipped a set of rolls to the Durango Steel and Iron Company, Durango, Mex.

Emaus fnrnace, at Emans, Pa., has gone out of blast and is to be re-bnilt and improved by the ad-dition of a new blowing engine and boilers.

The Albany Iron Works, Troy, N. Y., are run-ning the 14-in. and 18-in. trains and the axle ham-mers. The steel works are also running full time.

The Shiffler Bridge Company, Pittsburg, Pa., is building a large dynamo and pnmp honse for the Yonngstown Bridge Company, at Youngstown, O.

The Edgar Thomson mill, at Braddock, Pa., is be-ing enlarged by the addition of two new furnaces to the blooming mill, each having a capacity of 30

The Pittsburg Department of Public Works has let some large contracts for cast iron water pipe to the National Fonndry and Pipe Company, of Scottdale, Pa.

Jones & Laughlins are patting up a new plate mill, at their plant, in Pittsburg, Pa. The new con-tinuous mill is nearly completed and will begin operations in a short time.

The Hazard Manufacturing Company, Wilkes-Barre, Pa., recently shipped to the Citizens' Trac-tiou Company, in Pittsburg, a wire cable 25,800 ft. long, and weighing in all about 75,000 lbs.

The Bethlehem Iron Company has completed and shipped to the American line a spare crankshaft for the steamship "Paris." It is made of nickel steel and has the high tensile sterngth of 90,000

The Ordnance Bnreau of the Navy Department is about to advertise for some 750 tons of steel forgings to be nsed in the construction of 12-in. and S-in. guns, and of 4-iu. and 5-in. rapid-fire gnns.

The Abendroth & Root Mannfacturing Company, New York notes a demand for the Root patent spiral riveted water pipe from foreign countries, and has just shipped a large snpply of this pipe to Sonth Africa.

The M. C. Bullock Company has removed its Chicago office from South Canal street to its ex-hibit in the Mines and Mining Building, at the Ex-position. The exact location is in the Sontheast Section, P. 21.

The Pittsburg Locomotive Works have recently received a contract for 20 locomotives for the Man-hattan Elevated Railroad, in New York City. They are of the eight-wheel Forney pattern, which is the standard of the Manhattan company.

The Mecklenburg Irou Works, Charlotte, N. C., are just completing the shipment of a 20-stamp mill with all attachments, besides other mining material, and three chlorinators for the Theis method, to the Lustre Mining Company, El Oro, Durango, Mex.

The B. F. Sturtevant Company, Boston, Mass., has printed a third edition of 10,000 copies of its 200-page general catalogne No. 61, which describes the uses of the blowers, exhausters, engines, forges, heating and ventilating apparatus, made by the company, and desires to place a copy in the office of every one nsing such machinery.

The Lidgerwood Manufacturing Company, New York, recently received an order from Sweden for one of its Miller patent transfers. This company recently shipped to the South Gila Canal Com-pany, near Sentinel, Ariz., the largest hoisting and conveying cableway ever built, it being 1,500 ft. span, or 150 ft. longer than the great cableway at the Anstin dam, in Texas.

In the suit brought by certain stockholders to compel William W. and Walter Scranton to pay into the treasnry of the Scranton Steel Company \$350,000 bonds of the Lackawanna Iron and Steel Company, received by them, the court has decided in favor of defendants, holding that the bonds were paid to them individually, in consideration of their memory that the other into any computing husings ement not to enter into any competing business for 10 years.

Messrs. William Hoskins & Co, have issued an illustrated catalogue describing Hoskins' patent hydro-carbon blowpipe and furnaces. The latter include crucible furnaces of different kinds and muffle furnaces. The blowpipe has been used with excellent results. These furnaces are the only ones in use in the laboratory of the Mines Building, at Chicago. The makers applied for space as ex-hibitors, but the chief of the department desired to use the furnaces in the laboratory.

The sale at auction of the entire assets of the Ozark Onyx Company, at St. Louis, on July 10th, notice of which is given in another column, offers a chance to purchase one of the most thoroughly enninned onyx plants in America. The onyx mines of this company, the discovery of which created a great excitement in Missouri about two years ago, are still undeveloped, and in fact only partly ex-plored. What they may contain has not been fully ascertained, as the Ozark company has never had sufficient means to test them.

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The appeal in the case of the Pittsburg Reduction Company, of Pittsburg, against the Cowles Electric Smelting and Aluminum Company, of Cleveland, pending before the United States Circuit Court of Appeals, at Detroit, Mich., was recently dis-missed on motion of the appellants for the Cowles company, at its cost. The patent at issue was the Hall patent, which covers the only commercial method at present used for manufacturing aluminum. The patent had been adjudicated and entertained by the United States Circuit Court for the Northern District of Ohio.

the Northern District of Ohio. The American Casualty Insurance & Security Company carries a considerable amount upon min-ing companies, in all 21 companies footing up \$4,692,000. Of this amount the Boston & Mon-tana Consolidated Mining Company has \$1,100,000. Nearly all the plants carry both employers' liabil-ity and contribution insurance. This latter form of policy provides for half, and in some cases three-quarter, wages to men who are injured while in the discharge of their duties, with additional benefits of free medical attendance, and in case of death ensuing from the injuries a sum equal to one-half or three-quarters of the annual income of the de-ceased paid to his legal representatives. These general policies can be written at rates below what individuals would obtain. The Crum Creek Iron and Steel Company. of

individuals would obtain. The Crum Creek Iron and Steel Company, of Chester, Pa., has made an assignment. The com-pany estimates its liabilities at about \$120,000, and its assets, including the capital stock, at \$119,-000, which would virtually make it solvent, but the assets include about \$40,000 due the company from a former agent, which is doubtful. This heavy loss and the dullness of the iron trade made payments slow, and suits threatened by creditors led to the assignment. The plant will be sold. The officers of the company are D. Reese Esrey, presi-dent; H. B. Birtwell, treasurer and general man-ager; Walter L. Birtwell, secretary, and Jared Swanger, superintendent. All are residents of Chester. The failure seems to have been the re-sult of a combination of unfortunate circum-stances. stances.

surf of a combinator of unfortunate credu-stances. Messrs. Shepard & Searing, mechanical and elec-trical engineers, of Denver, Colo., have just com-pleted the plans for the new lighting and power plant for the Omaha & Grant smelter, of that city. The smelter has been erecting a new engine, boiler and blower plant with a view of doubling its pres-ent capacity, and at the same time centralizing all its machinery in one building, all the smaller en-gines for driving crushers, hoists, fans, etc., being replaced by 500-volt electric motors operated by generators in the main blower-room. The capacity of the arc and incandescent plant will also be doubled. The whole electric plant when complete will consist of two 25-light arc machines, two 200-light incandescent machines, and two 65-H. P. generators, driven from a countershaft. The countershaft will be driven from the main blower shaft by rope belting. The whole plant, including countershafting, reserve engine, switchboards and free space around machines, occupies only 24 ft. by 43 ft.

MACHINERY AND SUPPLIES WANTED.

If any one wanting machinery or supplies of any kind will notify the "Engineering and Mining Journal" of what he needs, he will be put in communication with the best manufacturers of the same. We also offer our services to foreign correspondents who desire to purchase American goods, and shall be pleased to furnish them information concerning goods or any kind, and forward them catalogues and dis-counts of manufacturers in each line. All these services are rendered gratuitously in the in-terest of our subscribers and divertisers; the proprie-tors of the "Engineering and Mining Journal" are not brokers or exnorters, nor have they any pecuniary in-terest in buying or selling goods of any kind.

GENERAL MINING NEWS.

ALABAMA.

Cherokee County. (From Our Traveling Correspondent.)

Cherokee County. (From Our Traveling Correspondent.) At the present time business in this county is very much depressed in the southeastern portion, which is a large producer and shipper of brown iron ore, because of the closing down of the Baker Hill mines, owned by the Tecumseh Iron Company, indefinitely. The commany has increased the force at the State Line banks, working two shifts eight hours each, and paying 9c. an hour for all labor excent shift bosses and engineers. The ore mined at these banks carries a very low percentage of phosphorus and high in metallic iron, consequently is more valuable and sought after even by the coke furnaces than the ore from Baker Hill, which is higher in phosphorus. At present, the shipments average from 75 to 125 tons a day. This ore is not encountered in the banks in solid bodies, as is the case in the Baker Hill, but is all contained in the gravel or clay which varies in richness, so that it is impossible to estimate with any degree of exactness what is ahead of the work, and besides the banks have been mined for years, the ore in the shake have been mined for years, the ore in the past having been are body but and we verything is washed through the new McLanahan & Stone washer, erected ', ty ear. The water supply be ing bromatic and with the new McLanahan & Stone washer, erected ', ty ear.

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ALASKA.

ALASKA. (From our Special Correspondent.) Alaska-Treadwell Gold Mining Company.—At the annual meeting held on Wednesday last the fol-lowing directors were elected for the ensuing year: E. W. Hopkins, R. D. Fry, H. Smith, Jr., William Alvord and J. D. Fry. At a meeting of the di-rectors the following officers were elected: W. Al-vord, president; J. D. Fry, vice-president; A. T. Corbus, secretary and treasurer, and R. Duncan, Jr., superintendent. ARIZONA

ARIZONA.

According to James Finley, in the "Arizona Weekly Citizen," there is not a silver mine or mill in operation in the Territory of Arizona, owing to the low price of silver.

Cochise County.

Hermosa M.—A shipment of 4,000 oz. of bullion from this property was seized recently under a judgment against A. A. McGovney, of Colorado, who has been recently running a mill on the prop-

CALIFORNIA.

Amador County.

Amador County. Amador Gold Mine, Limited.—Judgment has been rendered against this company in the sum of \$149,-259, with interest and costs, in favor of William A. Wallace. Mention of the grounds for this suit has been made in previous issues of the "Engineer-ing and Mining Journal."

ing and Mining Journal." Keystone Mining Company.—This company has brought suit against the South Spring Hill Gold Mining Company, alleging that the latter company has extracted ore from its territory, and that the apexes of a portion of the vein worked by the South Spring Hill Company lie within the limits of the Keystone claim. It is claimed that in the two years' work by the South Spring Hill Company on this portion of the property, some 10,000 tons of ore were extracted, having a value of \$200,000. Butte County

Butte County.

Butte County. Golden Feather Channel, Limited.—The water in the river is too high to permit of work at present. But it is expected that by July 1st the channel may be drained and the river diverted. Calaveras County. (From our Special Correspondent.) An 11-ft, ledge of excellent rock is being worked three miles from Angels. The rich streak running through it ranges from 6 to 12 in. in width and is rich in free gold. A two-stamp mill is being erected. erected.

Los Angeles County.

Los Angeles County. (From our Special Correspondent.) In 1863 a party of miners prospected on Cata-lima Island, and discovered rich mineral. They took out 250 tons which was sold on the ground at \$100 per ton, but shortly after an injunction was served by the owners of the island, which was then controlled by the Lick estate, and work ceased. In abandoning their find the men covered up all traces of the mine and for 30 years it has remained undis-covered despite the fact that it has been repeatedly sought for. It has now been relocated and is in Cherry Valley and quite easy of access. Originally the ore was taken out by tunnelling, but a shaft is being now sunk and at a depth of 12 ft. a small ledge was struck, which at first was only ¼ in. wide, but which now shows 6 in. of silver-lead ore, assay-ing \$11.50 and 80% lead. Mono County. (From our Special Correspondent.)

(From our Special Correspondent.) Bodie Consolidated Mining Company, Bodie.—At the annual meeting held this week there were rep-

resented 54,512 out of 63,473 shares of stock, the balance of the 100,000 shares being in the treasury. The following officers and directors were elected: H. D. Walker, president; L. Osborn, vice-president; J. W. Kelly, E. P. Danforth, R. H. Linton, W. H. King and A. Herman, directors. The company has \$9,069.41 in the treasury.

Napa County.

Development work has been prosecuted for some time on a quicksilver property, in the Oak Hill min-ing district. Some of the ore now extracted assays 30% quicksilver. There is plenty of wood and water in the vicinity of the works, so that work there will be economical. It is dwned by H. Fraser, G. A. Saery, J. B. Jamison and S. E. Shore. Nevada County.

Nevada County. (From our Special Correspondent.) The Coan Mine.—This property, which adjoins the Chapman ranch and is owned by the Coan Brothers, has been purchased by R. B. Colgate, of the celebrated firm of soap manufacturers, for himself and other Eastern capitalists. The pur-chase price was \$12,000, and \$4,500 is reported to have been paid for the Green property adjoining the Coan on the west. Placer County.

Morning Star Gravel Mining Company.—This company has declared a dividend of \$1 per share, aggregating \$2,400. The place of operation is Iowa Hill.

San Bernardino County.

(From our Special Correspondent.) A rich placer field is reported eight miles from the Dry Lake location, northeast from Mohave. The ground is said to be easily worked, and so soon as dry washers are received some rich finds are anticipated. Most of the good ground has already how token up anticipated. A been taken up.

Sierra County.

Sierra County. Rising Sun Mining Company.—This company is preparing to put in an electric power transmission plant. The dynamo and water-wheel will be placed on the Middle Yuba 2½ miles from the motor. Ruby Drift Gravel Mine.—Twenty-eight men are being worked on this property. An examination of the mine has recently been made by Mr. Ross E. Browne, of San Francisco.

Tuolumne County. Kincaid.—This gravel property, on the Kincaid Flat, is worked by a monitor under 200 ft. head; the banks are 60 ft. high and the bedrock tunnel discharging into Sullivan Creek is about a mile low

COLORADO.

Clear Creek County.

-This 15 Ohio Gulch Mining and Milling Company.—This company is now building a mill to contain 15 stamps, one pair of rolls, six jigs and three buddles. It is said to have a large body of concentrating ore in its mines.

Custer County.

Geyser.—This property, which has absorbed the money of its stockholders for some years past, has levied another assessment of 10 cents a share. Statements are made at the same time that the ore is improving in quality and that a strike will shortly be made. This is an old story with the Geyser property property.

Dolores County.

Atlantic Cable Mining Company.—Considerable ore of good grade is being stoped in this ground. Rico Aspen Mining Company.—Two hundred men are now being employed in this property; large quantities of good grade ore are being shipped.

Southern Consolidated Mining Company.—The tunnel on this property is being pushed with activ-ity; the vein will be struck, it is expected, at 100 ft. El Paso County.

El Paso County. Calumet Mining Company.—The litigation be-tween this company and Patrick Burns has been settled, the company having compromised by the payment of \$3,000 shares of stock and due-bills equivalent to 232,000 shares which were claimed by Burns. The Pharmacist Mining Company has paid \$5,000 to the Calumet company for trespass on the latter company's property.

Gilpin County.

Cleveland Mine.—Development work is being pushed rapidly on this mine. The pay streak is about 8 in. wide and averages about \$78 a ton, net:

about 8 in. wide and averages about \$78 a ton, net: Gould Mining Company.—This property is being worked by leasers, who are stoping and drifting on a 150-ft. level. A pay streak 6 to 10 in. wide has been opened up here; the mineral is high-grade galena and gray copper. Mountain Boy.—A rich strike has been recently made in this property at the depth of 30 ft. Speci-mens from the S-in. pay streak have assayed as high as \$8 a ton. New Gragory Mining Company.—A hody of mill-

New Gregory Mining Company.—A body of mill-ing ore running 6 oz. per cord has been onened be-tween the 500 and 600-ft. levels in the Bobtail mine.

tween the 500 and 600-ft. levels in the Bobtail mine. St. Louis-Gunnell.—This property is being drained prior to an examination. Two-Forty.—Fifteen to 20 cords of milling ore and 10 tons of smelting ore are being shipped. monthly from this property. The milling ore runs. about 5 oz. gold to the cord, and the smelting ore from \$80 to \$200 a ton.

THE ENGINEERING AND MINING JOURNAL.

Yankee Hill Mining and Milling Company.—A 20-tamp mill is to be erected on this property shortly. ately a 3-ft. body of free milling gold ore has een opened up. Lake County

Lake County. (From our Special Correspondent.)

(From our Speelal Correspondent.) At the Mahala, the management have again hrought the diamoud drill into use to see what they cau find at greater depth than the present work-ings. Although the Mahala people are down 900 ft., they have never explored or developed but one contact, but from this contact they have heen for over a year shipping 1,200 tons per month. A statement just issued by the Grey Eagle-Po-eahontas-Penrose-Orion consolidation shows the work for May to be as follows: There were 350 net tons spipped from the Orion lease, yielding \$26,925; from the Grey Eagle-Pocahontas, 1,045 net tons, yielding \$25,931; Penrose, 140 tons, yield-ing \$14,616. The expenses, however, would greatly reduce profits.

Sixth Street.—These people are preparing to close down on account of existing conditions. The pumps, however, will not he pulled out, so that the work can again he resumed whenever things look more can agai favorahle

can again he resumed whenever things look more favorable. Star of Hope.—Attachments amounting to \$40,-000 have been issued against this property, hui it is understood that a satisfactory settlement is be-ing effected. At any rate, satisfactory arrange-ments have heen made to continue working the mine. The attachments were made by the Carey Hardware Company and McCarty & Moore's iron foundry. Now that it has been decided to keep the mine operating, plenty of mineral will be mined, as these people have one of the largest iron ore holies opened up west of the Pendery fault. Some very good carbonate ore is also heing taken out. A certi-ficate was filed at the county clerk's office this week signed by John P. Jones, president, and a majority of the directors of the Star of Hope Mining Com-pany, showing that the whole capital stock of this company had heen all paid in hy the assignment and delivery of certain mining property in Cali-fornia mining district, this county. Ouray County.

Ouray County.

Raleigh.—Development work on this property, which was sold last winter to a Pittsburg syndi-cate for \$45,000, has commenced. A cross-cut tunnel is to he run 300 or 400 ft., cutting the vein, 700 ft. below the surface.

FLORIDA.

Alachua County.

Imperial Phosphate Company.—This company has been incorporated to operate phosphate works in this connty, the incorporators being S. R. Pyles, Ocala, Fla.; J. H. Porter, Dalton, Ga.; W. S. Trimble, Atlanta, Ga. Citrus County.

Globe Phosphate Mine.—This mine has heen sold to Capt. William McKay, who is now building a branch railroad to connect the mine with the Silver Springs, Ocala & Gulf Railroad. Marion County.

Central Florida Phosphate Company.—This com-pany has bought part of the old Hopkins plantation, near Anthony, Fla., and will put up a large plant on the tract.

Ocala & Blue River Phosphate Company.—This company will issue \$225,000 in bonds, \$150,000 having already been placed. The money will be used to pay off the floating debt and to build a rail-road to the company's mine.

Polk County. Fort Meade Phosphates Land and Investment Company.—This company has started a river dredge at work in the river at Fort Meade, Fla. The dredge is fitted with a Morris centrifugal pump and a Dean duplex force pump. When in a drift it will easily raise from 10 to 11 tons an hour of clean pehble. The company is putting in a Clark rotary dryer, made by the Mahoning Rolling Mill Company, at Danville. Pa., which has a capacity of 300 tons per day. The phosphate is carried from the dryer to the shipping hins by a Jeffrey eleva-tor.

GEORGIA.

GEORGIA. White County. Number Ten.—The Cleveland "Progress" reports the discovery of a new vein of rich gold ore on this property, now owned by J. R. Lumsden and J. H. Westmoreland, who have been at work prospect-ing for some time. It is believed to be an exten-sion of the once famous Reynolds vein, which was first discovered some 60 years ago, and from which many thousand dollars were taken before the War.

IDAHO. Alturas County.

Camas No. 2.—This property has been sold at sheriff's sale for \$30,000, to St. Joseph. Mo., parties. The sale is subject to confirmation by the district court.

Idaho County.

Idaho Connty. (Reported for the "Engineering and Mining Journal." Elk City mining district is situated on the South Fork of the Clearwater River. and embraces an area of about 140 souare miles. It is situated about 120 miles from Lewiston, the Union Pacific terminus, and 135 miles from Genesee, the termi-nus of the Palouse branch of the Northerr Pacific Bailroad. The watershed of the South Fork of

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Lemhi County.

Lemni Connty. Lemni Placer Company.—Two giants are now in operation. The larger one is throwing 1.150 miners' inches through a 61%-in, nozzle under 375 ft, press-nre. The smaller giant is used merely to increase the amount of water. The grounds are lighted hy electricity and work is carried on night and day.

Shoshone County.

Shoshone County. There seems to be resumption of the labor diffi-culties in the Coeur d'A'ene mine. Some of the car-men and shovelers at the Helena & Frisco Mining Company's property have struck for a raise of wages from \$3 to \$3.50 per day. The Gem mine has shut down: the Tiger has shut down on account of the hoisting engineers' strike for eight hours' work daily. Other mines are still running.

ILLINOIS.

Illinois Fuel Company.—This company, which has its headquarters in Chicago, and operates sev-eral coal mines, on June 27th confessed judgment for \$28,000 in favor of the Commercial National Bank of Chicago. The total liabilities are said to Bank of Chicago. be about \$60,000.

Lemp's Mining, Milling and Educational Com-pany.—This company has filed articles of incor-poration with \$500,000 capital stock; office in Chicago. The incorporators are C. P. Stringfield, John Higgins and John A. Don-nelly. The objects are to mine and mill ores; what the educational part of the title is to cover is not stated.

Menard County.

Menard County. Curtis Coal Company.—This company has heen organized at Sprinzfield, III., with \$30,000 capital stock, to sink a shaft near Petershnrg, on the Chi-cago & Alton Railroad. The officers are Thomas White, president; John W. Ryan, secretary; P. H. Giblin, treasurer.

MAINE. Hancock County.

Crotch Island.—This granite quarry was bought last fall hy Goss & Small, who have made many improvements, putting in a very large new derrick and a new 30-H. P. hoisting engine.

Waldo County.

Heagan Mountain Quarry.—At this granite quarry 175 men are now employed getting out building stone and paving blocks.

and paving blocks. Washington County. St. Croix Coal and Freestone Company.—This company has bought the mineral rights over an ex-tensive tract of land in the towns of Perry and Pembroke, and is making arrangements to quarry the freestone, which is of fine quality. The com-pany has also set up a drilling plant, and is using the diamond drill in exploring for veins of coal, which are said to exist. Some prospecting for coal was done in Perry as long ago as 1842, but without any practical results.

MARYLAND. Montgomery County. Huddleston.—Mr. L. W. Weed, who has been sinking a shaft on this place has, it is reported, found some rich ore. The ore is quartz, carrying free gold. Similar finds have beeu made in this county from time to time, hut they have all been small pockets and no regular vein has ever been developed.

MICHIGAN. Copper.

Copper. Copper. We take the following from a late issue of the Lake Linden "Native Copper Times": Drifting south on the Osceola anygdaloid from the cross-cut in No. 4 shaft Calumet is going on with vigor. Disclosures of value are being made. From this quarter resources of unquestioned value are begin-ning to appear. And the lode making north into Calumet & Hecla property from the Osceola hound-ary is rich as mud, and that is about 10.000 ft. south of the cross-cut. This large tract of virgin ground, virtually known to be rich in mineral from surface to great depth, and all along the property from north to south, is territory enough to make another immense mine. But another cross-cut from the conglomerate to the Osceola lode and it must he getting pretty well into the helt; should it be found rich in this latest cross-cut it is very likely that extensive operations will be carried ou in the course of a year or two on that vein in the Calumet & Hecla property. Iron-Gogehic Range. Press dispatches from Ironwood state that an oridomic of typoind force has broken out et that

Press dispatches from Ironwood state that an epidemic of typhoid fever has hroken out at that place. So many of the miners have heen stricken that several of the mines are practically closed.

Norrie,—This mine, at Ironwood, closed down on June 22d. It had been working a half force of 650 men, but will stop everything except shipping from stock piles. Other big mines at Ironwood are re-ducing forces also.

Iron-Marquette Range.

Lake Superior Iron Company.—At the Lake shaft Lake Superior mine the management will put gangs of men at work exploring the ground above the 444-ft. level. Two rises will be started for this purpose. There is a large territory there that has not yet been thoroughly tested for ore. The new shaft at Section 16 has.

Republic.—A press dispatch from Ishpeming states that the owners of the Republic mine have sent orders to close down for two months, commenc-ing July 1st. The Bond & Cleveland mine, employ-ing 700 men, will also, it is said, be closed indefin-itate itely.

MINNESOTA. Iron-Mesaba Range.

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ore loading is going on directly from the ore body same time bridges on the Duluth & Iron Range Railroad, between Tower and Ely, 60 miles from Virginia, were burned by forest fires. Shipments from the big Chandler mine, at Ely, will be hindered for a short time. At the big Biwabic mine, in Section 3, 58, 16, at the rate of a 24-ton car every four minutes. The ore is loaded by a steam shovel of two-ton capacity, which is working directly ahead into the end of a cut. When the shovel is able to work sideways the work will be easier, for there will be less distance to traverse. The shovel handles about four tons per minute, and is loading about 500 tons daily. This week it begins on an ont-put 1,000 tons daily. The ore is dry and fine grained, and is handled with much ease. The wisdom of stripping off the 30 ft. of surface over the ore in this property, which had been generally questioned, is now universally recognized. Iron-Vermilion Range.

Iron-Vermilion Range.

recognized. Iron-Vermilion Range. Minnesota Iron Company.—This company, operat-ing the Minnesota and Chandler mines, has laid off over 900 men, and for the first time in the history of these mines since they became shipping properties they are mining with a day drift only, says the Tower "Iron Journal." The action of the company is due entirely to the depressed condition of the ore market. On the other hand, there is in-creased activity in the shipment of ore from the stock piles. The force has been nearly doubled within the week and 20 to 24 ore trains a day as a now in service between Soudan and Two Harbor. The new ore crusher at No. 8, where is stocked 170,000 tons, is in operation and cars are being loaded from its pockets. The apparent intention of the management is a curtailment of further exten-sive mining operations, but increased activity in shipments of the ore already mined. Zenith.—This mine, at Ely, has been closed down entirely and the pumps taken out. The latter fact is conclusive that the company anticipates no further operations, this season. There are about 15.000 tons in stock. MISSOURI.

MISSOURI.

Jasper County. (From our Special Correspondent.)

Joplin, June 26.

(From our Special Correspondent.) Jopin, June 26. The mining operations of the past two weeks in five, and the outlook is anything but encouraging, the zinc ore market has milled at an average of source of the second at the lead ore market closed the zinc ore market has milled at an average of source of the second at the lead ore market closed the past two weeks was \$19 per thousand. The coal strike is still on and no prospects of an agreement the second that encough of coal could be had to keep the zinc smelters mining, but the latest re-of 58 furnaces show that 24 furnaces were closed thow next, which means the closing down of every mine this helt. Following are the sales of ore throw weeks, which means the closing down of every mine in this helt. Following are the sales of ore throw and 23,970 lead, value \$20,650: Webb City at 112,000 lead, value \$17,091; Zincite mines, 4,24, the \$5,140 lbs, zinc ore and 27,660 lead, value \$3,715; Carterville mines, 1,485,100 lbs, zinc ore and 112,000 lead, value \$17,091; Zincite mines, 4,24, the \$6,459; Aurora, Lawrence County. mines, the \$15,340 lbs, zinc ore and 25,560 lead, value \$45, the \$6,459; Aurora, Lawrence County. mines, the \$4,59; Aurora, Lawrence County. mines, the \$4,59; Carterville mines, 1,260,340 lbs, zinc ore and 132,000 lead, value \$17,500 lead, value \$17,500 lead, the \$6,459; Aurora, Lawrence County. mines, the \$6,459; Aurora, Lawrence County. mines, the \$6,459; Carterville mines, 1,260,340 lbs, zinc ore and 25,500 lead, the \$6,459; Carterville mines, 1,260,340 lbs, zinc ore, and 23,500 lead, the \$1,540 lbs, zinc ore and 25,500 lead, value \$17,500 the \$1,500 lbs, zinc ore and 25,500 lead, value \$17,500 the \$1,600 lbs, zinc ore, value \$1,709; Conorgon the \$1,600 lead, value \$1,709; Conorgon the sinc ore and 55,140 lead, value \$1,709; Conorgon the sinc ore and 55,140 lead, value \$1,709; Conorgon the sinc ore and 55,140 lead, value \$1,709; Conorgon the sinc ore and 55,140 lead, value \$1,709; Conorgon the sinc ore and

MONTANA.

Deer Lodge County.

Hope Mining Company.—This company has de-clared a regular quarterly dividend of 25 cents a share, payable July 1st.

Lewis and Clarke County. Hubbard Tunnel.—This long tunnel has at last cut the vein. The ledge is said to be 5 ft. wide and rich.

Piegan Mining Company.—At the recent annual meeting of this company it was determined to re-sume work. A considerable amount of supplies have been purchased.

have been purchased. St. Louis Mining and Milling Company.—This company is shipping high-grade ore from its mine. This company has filed another suit against the Montana Mining Company, Limited, for the posses-sion of certain premises, \$10,000 damages and an injunction until the final termination of the case. It is virtually a re-opening of the suit which was decided against the plaintiff a few weeks since. The question again is one of the apex.

Silver Bow County.

American Development and Mining Company.— The office of this company has been removed from Marysville to 209 North Main street, in Butte.

Gambetta.—Sinking is still in progress on this roperty; it is thought that the 600 level will be eached shortly.

reached shortly. Glengarry No. 2.—The Montana Ore Purchas-ing Company has been paying \$5,000 a month royalty on an ore extracted from this property, which is situated on the flat between the Silver Bow mill and the Parrot smelter. The first in-stallment on the purchase of this property of \$10,-000 has been paid, however, and it is said that the mine will be taken over shortly by Mr. Heinze and his associates.

Indiana Mining Company.—Work will be resumed n this company's property, in Park Canyon, it is on said.

Ophir Mining Company.—Work will be suspended on this property for an indefinite period.

NEVADA.

Churchill County.

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Nye County.

The Clementina & Keystone mines, at Yellow Pine, are said to be looking extremely well. Magnolia Manufacturing Company.—This com-pany has leased the Hiko mill for two years. It will be repaired and it is expected to start to-day.

Storey County.

Belcher Mining Company.—None of the explora-tion work in this property shows any sign of im-provement. During the week 33 tons of ore have been taken out.

been taken out. Consolidated California & Virginia Manufactur-ing Company.—Some fair grade ore is being ex-tracted from various portions of the 1,650 level. On the 500 level a few tons of ore has been ex-tracted that assayed \$21 a ton. From all parts of the mine 277 cars of about 270 tons was extracted, the average assay value of which, per car sample. was \$36.20 per ton. Ninety-one tons were shipped to the Morgan mill, which was to have commenced crushing June 17th. Crown Point Wining Company.—A portion of the

crushing June 17th. Crown Point Mining Company.—A portion of the ore encountered in the west cross-cut on the 400 level is nay-ore. From No. 1 cross-cut, on the 700 level, 150 tons are being taken out for milling test. Stoping is going on on the sixth floor of the south raise of the 100-ft. level. Here there is a streak of ore from 2 to 3 ft. wide, assaying fairly well. During the past week 69 tons have been shipped to the Mexican mill, the average battery assay of.

Hale & Norcross Mining Company.—Work in the upraise in the west cross-cut on the south boundary on the 1,800 level has been stopped, as it failed to show anything of value.

to show anything of value. Justice Mining Company.—The face of the south drift from the north drift on the 822-ft. level is at present in low grade quartz; 8 to 10 tons a day are being taken out from the north and south stopes on this level, which average \$20 a ton; 81 tons have been shipped to the Washoe mill during the last week, the average battery assay of which was \$19.09.

Potosi Mining Company.—The top of the raise on the north drift, 100 ft. north of the east cross-cut, on the 930 level, shows 2 ft. of good ore; the north raise from the 1,000-ft. level, has made con-nections with the north drift on the 930 level. The south stope is yielding the usual amount of fair grade ore. During the past week 652 tons raised from the 550, 1,000 and 1,150 levels were shipped to the Nevada mill. During the week 670 tons was milled. The average battery assay was \$24.02; average car sample assay, \$28.72. Savage Mining Company.—Some fair grade ore is being extracted from the fourth floor to the twelfth floor of the 1,100 level. During the week 102 cars, averaging \$37.50 per car sample, have been hoisted from this level; 135 tons of ore have been shipped to the Nevada mill. Silver Hill.—Operations have been suspended on

Silver Hill.—Operations have been suspended on this property and the mine is shut down indefinitely.

Silver Hill,—Operations have been suspended on this property and the mine is shut down indefinitely. Storey County—Comstock Lode. (From our Special Correspondent.) Crown Point Mining Company.—A shipment of 500 tons of ore has been made to the Mexican mine for a test run with the Frue concentrators recently put in the mill. The ore is low grade; and if re-sults are satisfactory, further shipments of simi-lar ore will be made. Crown Point Mining Company.—Shipments of ore will commence this week. On the 1,100 level are stoping north from the raise, above the sixth floor of the south raise, on a streak of ore which ranges from 2½ to 3 ft. wide, yielding fair assays. There is now being taken out 150 tons of ore from No. 1 cross-cut, 700 level, for a milling test. Yellow Jacket Mining Company.—The upraise from the ore body found in the east cross-cut, 1,100 level, shows the ore to be improving and the pres-ent indications are favorable for finding an ore body. Some of the assays have run into the thou-sands.

ent in body. sands.

The following is the weekly tabulated statement of ore hoisted from Comstock mines and milled, with the car and battery assays, bullion shipments. etc.:

Mines.	Tons	AvCar S'mple Assay.	Tons		Bullion shipped.				
Belcher	133				 				
C. C. & Va.	270	36.20	291		 				
Crown Pt.			69	17.42	 				
Justice	* 70	20.00	81	19.09	 				
Potosi	652	28.72	670	21 92	 3 377 tb				
Savage	4102	37 50	5135		 				

¹ Good grade ore. ² Commence crushing at the Morgan mill this week. ³ Crude bullion. ⁴ Cars. ⁵ Shipped pre-paratory to commencing crushing.

paratory to commencing crushing. The Eureka mill will start up about July 1st. The pans and settlers have just been put in and all will be in readiness, it is expected, by that date. The mill will be lighted by electricity. It is under-stood that the mill will be about eight acres in ex-tent, with a depth of from 6 to 8 ft. It has been estimated that with the mill working 100 tons per day there are enough sluice and tailings to keep it running for four years. It is difficult to fix any average value to these accumulations. Of course these are regarded as perquisites of the mill-owners, but a short calculation, with the above figures as a basis, will show what a valuable perquisite the tail-ings are likely to prove. White Pine County.

White Pine County.

Chainmau.—Work has been discontinued on this property and it is stated that the development work prosecuted by Mr. D. H. Jackson did not make a favorable showing.

NEW HAMPSHIRE.

NEW HAMPSHIRE. Grafton County. Tegoried for the "Engineering and Mining Journal." Dodge Mine.—A letter from Superintendent C. A. Ware gives the results of a week's run on or from this mill with the Crawford mill. During the week samples were taken direct from feed heads and outlet (tails) every 30 minutes, each the assays of the cach 12 hours being carefully simpled down and from two to six assays made to get average of each 10, for each 12 hours' run. The assays of the heads showed from \$8.01 to hothing to \$1.64 per ton. The average for the six saying of \$8.084 per ton, or over \$32' of the sold, after retorting mercury, added to assay value of concentrates from under disc, amounted to with at \$3 of the amount that the ore should have yielded at \$8.08 per ton, proving the assay value correct. In running the mill the speed was \$2 revolutions; 10'4 bs, ore per minute was the average feed and at 8 gallons water were used. During the week, the

speed, feed and water were changed but once, and that was Saturday, when speed was increased to speed, feed and water were changed but once, and that was Saturday, when speed was increased to 85 revolutions per minute, water decreased about 0.2 gallon per minute, and feed increased 1/4 lb. per minute. Under these conditions a series of as-says showed the tails to be entirely free from gold. In the Dodge ore the gold occurs in very fine par-ticles, and it has always heen considered impossible to save by stamps or otherwise over 50% of the assay value; the rock contained about 6% pyrites.

OHIO

Belmont County.

Pittsburg & Wheeling Coal Company.—This com-pany's mine, at Wheeling Creek, near Bridge-port, is now being operated in a seam of fine coal, averaging about 6 ft. in thickness. The wire rope system of haulage has recently been introduced and a number of new sidings put in for handling loaded and empty cars.

Muskingum County.

Christy Coal Company.—This company is making arrangements for the operation of its mine near Zanesville, O., and expects to begin shipments in a short time.

PENNSYLVANIA.

Anthracite Coal.

Anthracite Coal. Green Ridge Colliery.—By an explosion of gas in this colliery, at Mt. Carmel. on June 28th, one man was killed and two others injured fatally. Mid-Valley Coal Company.—The breaker of the company, near Mt. Carmel. which cost \$100,000, was destroyed by fire June 16th. Packer No. 3.—Work is progressing rapidly on the new slope on the Holmes vein, at Packer No. 3 colliery, which when completed will much in-crease the shipments, says the Scranton "Tribune." The slone is being sunk from the surface at a point about 500 ft. sonthwest of the Mammoth slope, and will go to a depth of 500 ft. The hoisting en-gines to be used during the progress of the sinking have been brought from Continental colliery, Cen-tralia. tralia

Truman M. Dodson Coal Company.—This com-pany, with headquarters at Bethlehem, has been incorporated; capital, \$150,000.

incorporated; capital, \$150,000. York Farm.—An airway has been just com-pleted at York Farm colliery, which is considered an important mining feat. The opening was ex-tended from the hig tunnel on No. 1 lift to the sur-face on Sharp Mountain. The tunnel runs south 3,000 ft. from the slope and the airway was driven from its southern limit. It is 900 ft. long, and for the first 500 ft. pitches at an angle of 35°. For the rest of the distance the pitch is 75°. Bituminous Coal. Mr. John S. Newmeyer, the coke operator of

Bituminous Coal. Mr. John S. Newmeyer, the coke operator, of Dawson, is reported to be in financial straits. Dur-ing the past week judgments aggregating \$45,000 have been entered up against him, at Uniontown, and mortgages amounting to \$126,225 are on record. Mr. Newmeyer owns 2.170 acres of coal lands in Perry Township, including 580 acres of surface, which cost about \$2,100 an acre, and \$55,000 have been expended in sinking shafts, opening mines, buildings and other developments of the property. Mr. Newmeyer's embarrassment is the result of overloading with coal lands which cannot be realized on in a tight money market. Some capi-talists in Fayette County are organizing a company with \$300.000 capital to take his holdings and complete the plant. tI is thought there are some large notes not yet entered up, and that the liabil-ities will exceed \$200,000. Forest Hill Mines.—At these mines, near West

Forest Hill Mines.—At these mines, near West Newton, Ellsworth & Co. have 75 men at work pushing the opening. Work on the hoisting and other machinery is nearly completed. When the mine is fully opened it will employ some 300 men.

mine is fully opened it will employ some 300 men. Ten-Mile Coal Company.—This company was or-ganized at Brownsville, last week, by electing Samuel Pearsall, president: J. Holmes Patton, secretary, and Daniel Pearsall, treasurer. The fol-lowing board of directors was also elected: J. D. Bakewell, D. M. Hart and C. L. Snowden. This company will soon develop and operate the large tract of coal recently purchased above Brownsville. It is about three miles square and has a river frontage of one and a half miles.

SOUTH CAROLINA.

Columbia Phosphate Company.—At the annual meeting in Columbia, S. C., June 12th, the follow-ing officers were elected: W. A. Clark, nresident; John C. Haskell, vice-nresident; C. M. Teed, sec-retary; John C. Haskell, Jr., superintendent. The reports show a satisfactory business for the past year.

Wando Phosphate Company.—At the annal meet-ing, June 12th, the following directors were elected: Francis B. Hacker, Charles Richardson and C. B. Richardson. At a meeting of the di-rectors Francis B. Hacker was elected president; John W. Robinson, treasurer; J. P. Lockwood, secretary secretary.

SOUTH DAKOTA.

Lawrence County.

Bristol Mining Company, Development work is being resumed on this property. Horseshoe — A new shaft is being sunk on this property. Previous development work did not suc-ceed in finding ore of any value.

TENNESSEE.

Falls Branch Coal Company.—This company is preparing to put in an electric haulage plant at its mine, near Jellico.

preparing to put in an electric haulage plant at its mine, near Jellico. Indian Mountain Coal Company.—This com-pany's tunnel, near Jellico, has reached the main vein, which averages about 3 ft. 6 in. in thick-ness, and drifting on the vein has been begun. The erection of the engine-house, tipple and storage bins has been begun. This mine will be equipped with an electric haulage plant; the Jeffrey mining machines will be used and power will be transmitted by electricity from the generator out-side the mine, which will be run hy a 200-H. P. engine. The buildings and machinery will be suffi-cient for an output of 1,000 tons per day. Proctor Coal Company.—This company, which already operates two coal mines, is now opening a new mine which will be known as the Grimstead, two miles from Jellico. The tunnel has already reached the vein and work is being pushed on the tipple and other buildings. Shipments from this mine will probably begin about August 1st. VIRGINIA.

VIRGINIA. Spottsylvania County.

Powhatan Land and Mining Company.-This company is now getting out some ore of very good quality. The company has just completed a mill for working its ores.

FOREIGN MINING NEWS.

BRAZIL.

Dom: Pedro Gold Mining Company.—It is stated that stoping has been commenced on the south of the 50 fathom crosscut, that the vein is rich, and a large output is expected.

Ouro Preto Gold Mining Company.—During April 3,002 tons of ore were raised, producing 774 oz. of gold.

3, W2 tons of ore were raised, producing 7/4 oz. of gold. Santa Barbara Gold Mining Co.—At the annual meeting held April 29th, it was stated that the re-sult of the year's work was unfavorable, the mine working account showing a loss of \$685. The ore treated during the year amounted to 8,970 tons, a decrease of 3,080 tons as compared with the pre-ceding year. The average yield of the ore treated was 031 oz., against 0.38 oz. In 1891. The ore raised was 11,410 tons, against 15,159 tons in 1891; total value of output, £11,124, against £16,567, in the preceding year. Expenses in Brazil and England were £12,759 in 1892, against £15,806 in 1861. During the year a new shaft was sunk 13 fathoms, making a total depth below the deep adit of 164 fathoms. Limited explorations led to no discovery of impor-tance. Mr. Treloar, the superintendent, ascribed much of the difficulty to the deficiency of lahor, but it was hoped that the Brazilian Government would succeed in its efforts to introduce Chinese coolies into the country. into the country.

St. John del Rey.—The tram level west has passed through 62 ft. of mixed mineral, and the south wall has not yet been found. During March 842 tons were crushed.

BRITISH COLUMBIA.

New Vancouver Coal and Land Company.-This company has just received the fourth electric loco-motive for its mines at Nanaimo. It was built in the shops of the Canadian General Electric Com-pany, at Peterboro, Ont.

Kootenai.

Sampling works will be built at Kaslo with a capacity of 100 tons a day. ENGLAND.

ENGLAND. Dolcoath.—At the quarterly meeting of this com-pany the statement of profits showed a net earning during 12 weeks of £10,771; total available balance, £16,493, and a dividend of £2 53, per share was de-clared. Capt. Josiah Thomas stated that the mine was improving at the bottom and that it had most excellent prospects. The stockholders, in re-cognition of Capt. Josiah Thomas' services for the past 25 years, during which time he has had com-plete control of the mine, voted him a memorial piece of plate, to cost 100 guineas.

MEXICO.

(Special Correspondence of Richard E. Chism. Propriedad literaria reservada en la Republica Mexicana.)

MEXICO CITY, June 20. Chihuahua.

Chihuahua. It is greatly to be feared that the Palmarejo dis-trict in this State will be the scene of another flasco on the part of an English mining company. It is due to our transatlantic cousins to say that as in-dividuals they are very successful in mining in this Republic. English companies, however, are and always have been since they commenced to mine in this country, abnormally and phenomenally unsuc-cessful. They are frequently deceived in buving their mines and the properties are usually managed at this end without skill, economy or common hon-esty. The history of this company has been pretty fully given in the "Journal." According to the latest reports some \$4,000,000 have been invested in..one way or another in the property, while the monthly output of the latter is stated to be some \$40,000, of which from 75% to 80% are consumed in expenses.

Durango.

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ONTARIO.

Ontario Natural Gas Co.—This company is making arrangements to put down pipes from its gas wells at Kingsville to the towns of Walkerville and Windsor. The cost will be about \$140,000.

QUEBEC.

American Asbestos Company.—This company has recently resumed work on its mines at Black Lake, which have been closed down for two years. Mr. J. Klein is Superintendant.

Anglo-Canadian Asbestos Co.—This company is working on its property at Black Lake, but the number of men employed is still small.

Hall Mica Mine.—This mine at Escumains, below puebec, is now working with a small force. The nica is heing taken from a shaft about 25 ft. deep. The vein runs from 50 to 60 ft. in width and has heen xplored for a distance of about 1,700 ft. The mica s a good quality and gives an average size of about c_4 . explore is a goo ×4.

SOUTH AFRICA.

According to statements made by officers of the South West Africa Company, a discovery of a large body of copper ore has been made in Damaraland, north of Otavi.

Transvaal.

Transvaal. The gold production on the Witwatersrandt gold fields for May was 116,911 oz., an increase of 4,858 oz. over the previous month. The total output re-ported to date is 3,578,821.02; the cyanide process extracted 24,000 oz. of gold during May... Eighty-five Fathoms Level West.—The lode at this point is still well defined, and yields a little ore. At the new shaft there are as yet no indications tha

the lode is near. In 1892 this company's output was 1,405 metric tons, according to the "Mineral Indus-try," in which the production of all the leading mines of the world is noted.

Geldenhuis Deep Levels.—The water found in sinking the two shafts has much interfered with sinking. It is now heing removed and sinking is being pushed rapidly. One shaft, 12 ft. by 4/4 ft., is down 190 ft., and the larger one, 20 ft. hy 5/4 ft., is down 156 ft.

Namaqua Copper Mining Company.—At the Twee-fontein mine, the 95 fathows level east has passed out of the ore ground for the present, but is heing continued in order to prove whether it may make again farther east.

continued in order to prove whether it may make again farther east. Rietfontein Gold Miuing Company.—The direc-tors' report, for the quarter ending March 31st, states: Mine, feet sunk and driven, January, 494; February, 374; March, 504; total, 1,373. Develop-ment has heen pushed on both at the east and west ends of the property, and the reef is being pros-pected by a winze near the rock house. Further east the reef was again struck in a hore-hole by the diamond drill. At each of these strikes the reef maintairs its richness. Mill.—The mill (20 stamps) ran, in all, 74 days, crushing 3,734 tons, at an aver-age of 2½ tons per stamp, giving a yield of 29°817 dwis. per ton of rock milled. Tramroad from east to west, 7,000 (t. long, has heen built; rock sorting house has heen erccied, and is now ready for work. The new 30-stamp mill is almost ready, and the ser-vice reservoir completed. The cyanide works erected by the African Gold Recovery Company, under con-tract with this company, will shortly commence operations. The account of working expenditure and revenue for the quarter shows a net profit of £15,000. SOUTH AUSTRALIA.

SOUTH AUSTRALIA.

Royalist Mine.—This mine at Naunine has been yielding largely of late. The ore is quartz contain-ing free gold and the vein is of fair width. A recent lot of 100 tons gave 450 oz. of gold, and this is about the average yield.

lot of 100 tons gave 450 oz. of gold, and this is about the average yield. Wallaroo & Moonta Miuing Company.—The report for 1892 states that the business for the year shows a loss of £8,522, of which £981 is caused by the re-valuation of silver ores purchased early in 1892, and £2,430 hy the writing off to depreciation account of second-hand material at the mines. The halance of loss after deducting these items, £5,110, is more than accounted for hy the unprofitableness of the opera-tions at the mines during the first three months of the year. The total production of the Wallaroo and Moonta mines for the year was equal to 3,892 tons fine copper, and the refined copper shipped and sold in the colonies 3.522 tons. The ore raised at the Moonta mines was 16,630 tons net, producing 2,766 tons fine copper, equal to 1646%, against 12,412 tons for 1891, producing 2,611 tons fine copper, equal to 195%. The ore raised at the Wallaroo mines was 8,723 tons net, producing 1.126 tons fine copper, equal to 129%, against 13,544 tons for 1881, producing 1.578 tons fine copper, equal to 11%. The falling off in the percentage of the Moonta ore has been caused with the restarting of operations after the strike. The report also states that the new gold and silver works have heen completed. SPAIN.

SPAIN.

SPAIN. Tharsis Copper and Sulphur Co.—The directors of this company have, after writing cff the usual de-preciation out of the net profits for the year— namely, £246,377—set apart £40,000 to the reduction of mines, piers, railway and rolling stock. They recommend a dividend of 15 per cent. for the year, which absorbs £187,000 and allows £18,877 to be carried forward.

SUMATRA.

SUMATRA. Petroleum.—The Petroleum Company of the Neth-erland Indies recently submitted a quantity of the petroleum obtained from Sumatra to Professor Engler, in Karlsrühe, for examination and analysis. He reports that it is superior in quality to both American and Russian oil, and that refined oil from it is superior in illuminating power by 40% to Baku oil. The company is sinking several wells at differ-ent points. ent points.

VICTORIA.

The government geologist of this province speaks hopelully concerning the prospects of quartz and alluvial mines in the Wedderhurn goldfields. This district was famous for the size of the nuggets found in the early days of alluvial mining.

MINING SIOCKS,

[For complete quotations of shares listed in New York, Boston, San Francisco, Aspen, (olo.; Raltimore, Pittsburg, Deadwood, S. Dak.; St. Louis, Helena, Mont.; London and Paris, see pages 22, 23 and 24.]

Deabwood, S. Dak; St. Louis, Refena, Mont.; London and Paris, see pages 22, 23 and 24.1 NEW YORK, Friday Evening, June 30. The slump in the price of silver has naturally de-pressed the price of mining stocks. With daily re-ports from the silver mining sections to the effect that silver mines are closing down everywhere it is not to be expected that there should be much of a mining stock market, and yet the attention of the public has been drawn to mining shares more forc-ihly than for years past; indeed, this week there really was a letter inquiry than at any time in the past four months; the inquiries come from people who, having faith in the future, regard the present as a good time to buy mining shares at a low figure. The financial stringency is, however, too widespread, and investors are timid.

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(From our Special Correspondent.)

(From our Special Correspondent.) The market for copper stocks the past week has sympathized with the general depression incident to the high rates for money and the decline in silver as well as ingot copper. Stocks have heen pressed for sale, and prices in consequence have reached a lower level with only slight rallies on purchases hy the bears to cover short contracts. There is no spec-ulative huying, and parties who have bought on margins have been torced to sell at hest price to he obtained, as it is impossible to borrow money on this class of collaterals. The Montana stocks have heen especially heavy, aud Boston & Montana sold down from $\$211_4$ to \$18, the lowest recorded price in its his-tory. The prospect of successfully placing the 25,-000 shares of new stock at par, \$25, is not very flat-tering.

000 shares of new stock at par, \$25, is not very flat-tering. Butte & Boston, which was quite strong early in the week at \$7½, declined to \$6 on realizing sales. Centennial was pressed for sale on reports that the Osceola amygdaloid had heen reached and has not turned out so well as was hoped. The stock sold in the early dealings at \$524, but the flood of stock offered for sale to-day caused a decline to \$224with a later rally to \$3. This stock sold at one time in its history at \$4712 per share. Osceola held up very well until to-day, when it yielded to the pressure and declined to \$25, gaining 4 in the later dealings. Franklin sold at \$1024 ex-div., with later decline to \$10. There is not much offered for sale, the stock being well held. Quincy holds its price, \$105, on small sales. Calumet & Hecla was very strong up to the 25th, and sold at \$2526 (\$2230). It was weak to-day, and an order to sell 40 shares could not he executed hetter than \$290. Tamarack sold at one time at \$143, but declined to day to \$137, with last sale at \$138. Atlantic declined from \$74 to \$7, and Kearsarge

Atlantic declined from \$7½ to \$7, and Kearsarge from \$6½ to \$6 A lot of 300 shares of Allouez sold at 40c. Tamarack, Jr., sold at \$14 in a small way, and Wolverine at \$124. 3 P. M.—The market closed with a slightly firmer

feeling. San Francisco.

San Francisco. SAN FRANCISCO, June 30 (By Telegraph).—The following are the opening quotations to-day: Best & Belcher, 60c.;Bodie, 20c.; Belle Isle, 10c.; Bulwer, 10c.; Chollar, 45c.; Consolidated California & Vir-ginia, \$1.55; Gould & Curry, 45c.; Hale & Norcross, 35c.; Mexican, 70c.; Mono, 10c.; North Belle Isle, 10c.; Navajo, 10c.; Ophir, \$1.15; Savage, 40c.; Sierra Nevada, 60c.; Union Consolidated, 60c.; Yellow Jacket, 95c.

London.

June 20.

(From our Special Correspondent.) The amount of husiness transacted in mining stocks has been rather greater than during the last few weeks, but it is still confined within narrow limits. The London Stock Exchange does not keep a record of the total sales, as is the custom in America, and it is only possible to judge of the vol-ume of husiness by general indications and particu-lar inquiries of leading members of the house. As

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DIVIDENDS.

Standard Consolidated Mining Company, divi-dend No. 827, of ten cents pershare, \$10,000, payahle July 25th, at the office of the Company, 100n s 15 and 17, No. 310 Pine Street, San Francisco, Cal., and at the Farmers' Loan and Trust Company, No. 16 to 22 William Street, New York. Transfer hooks close July 27, and reopen June 26.

MEETINGS.

Bankers' Gold Mining and Milling Company, at the office of Messrs. Wolffe, Wehh & Chittendon, July 10th, at 10 a. m.

METAL MARKET.

NEW YORK, Friday Evening, June 30, 1893.

Prices	of	silver	per	ounce	Troy.	
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June.	St. Ex.	London Pence.	N.Y. Cts.	Value of sil. in \$1.	June.	St. Ex.	London Pence.	N. Y. Cts.	Value of sil. in \$1.
24	4 83	371 <u>/</u> 2	80¼	620	28	4 · 821/2	34	69	·533
25	4 81%	36	77	594	29	4 · 811/2	311/2	62	·480
27	4 81%	35	73	565	30	4 · 821/2	301/2	63	·487

The action of the English government in closing the India mints for private comage of rupees has been a shock and surprise to the silver market. Silver has fallen rapidly and panic prices have been the order of the day. Silver fell to 30%d. The prompt action by the Western smelters to shut down on buying ores, and draw their furnace fires as soon as present stock is smelted, has produced a reaction in prices and silver closes stronger.

The United States Assay Office at New York re-orts the total receipts of silver for the week to be ports the 81,000 oz.

Gold and Silver Exports and Imports at New York, Week Ending June 24th, 1893, and for Years from January 1st, 1893, 1892.

Gol	ld.	Silv	Excess			
Exports.	Imports.	Exports.	Imports.			
\$13.040 68,872,845 39,699,129	5,936,154	\$486,909 15.1:3,210 11.031,206	1,254,578	\$461.443 76,985,313 43,643,381		

During the five days ending June 30th the exports and imports so far as ascertained have been as fol-lows: Exports. Gold, \$4,825; silver \$356,425. Im-ports: gold. \$72,122; silver, \$30,760. The gold came from the West Indies and South America. We have put \$4,825 gold as being exported, but as a matter of fact this amount was returned by a ship-plng firm as being contained in the silver hullion exported by them, and speaking in ordinary terms there were no exports of gold. and we what he The statistics of the outward and inward move-ment of gold and silver are of great value when cor-rect. Hitherto we have taken great care in report-ing these items, but during the present week ship-pers have put a fictitious value upon their silver exports. Such information is misleading and of no value.

NOTES OF THE WEEK.

sports. Such information is misleading and of no value. NOTES OF THE WEEK. This of the past week an event took place which, whitimate effects upon the currency and financial history of the world, can be classed as secondary of the tree coinage of silver. This action was be that in a 1818. The Indian Government specieted in our last issue, heing based upon cahles to the adoption of the single gold standard by Great Britain in 1818. The Indian Government specieted in our last issue, heing based upon cahles to the the event of this was to depress the market for silver bullion, and at present the price is the lowest known in the history of the world. Stocks of all kind have felt the slump. Silvers inter have or will shut down in a few days. Western railroad stocks are down hecause the rainsportation of silver ores for their revenue; for example; the Dewver & Kio Grande Railroad stock has dropped some five or six points, as this road has a dropped some five or six points, as this road has a freight revenue from ore transportation equal to 5% of its total freight revenue. Other roads have for day have suffered hecause they are dependent to a certain extent upon the far Western roads for freight, money has continued at an unusually high rate, it high quoted on Thursday at 75%. The banks in the strate to 6%, but on Friday monung it again opened at a high rate. The total amount of certificates, and not her the prominent national hanks. This hroke the for the prosent time amount to \$15,700,000. The far West has ceased, and we expect that a there the situation is a lerady to the present time amount to \$15,700,000. The far West has ceased, and we expect that a high rate. The total amount of extificates, sub and they share correct. A the situation is already some what relieved. A the situation is al

sum of money, arready due, there and indica-pay. A feature of considerable importance and indica-tive of returning confidence is the increased amount of National Bank notes taken out; for instance: The total amount of National Bank currency ordered from Comptroller Eckels during the 28 days ending Thursday, June 28th, has been \$3,617,700. During the same period of May the amount taken cut was only \$869,050 and the amount taken out in the same numher of days in June, 1892, was just about \$1,000, 000.

number of days in June, 1002, was seen as a se

been passed long ago. The probahility heing strong that the Sherman bill will be repealed at the extra session of Congress soon to he held, the question has arisen whether the hare act of repeal would effect the revivication of the Bland act. Emphatically No. The Revised Statutes, Section 12, say: "Whenever an act is re-pealed which reapealed a former act, such former act cannot therefore be revived unless it he expressly so provided." This is conclusive and no one need worry about the re-enactment of the \$2,000,000 a month coinage law which hears Mr. Bland's name. Under the old common law of England the repeal of a repealing act would, of itself, re-enact the act first repealed.

The "Wall Street Journal" says that the Bank of England has declined to name a price for eagles. It Is stated that sovereigns can be imported with cahle demand exchange at \$4.82@\$4.825, provided that the coins are of fair average weight. From this it would seem that the question of gold imports depends upon the settled condition of the money market at present rates. On the other hand, it is quite certain that if the money market becomes quiet with mod-erate rates for money prevailing, the rates for Eng-lish exchange will increase heyond the importing point. It should not he forgotten that a consider-able proportion of the July dishursements go to Europe. Europe.

Domestic and Foreign Coins.

The following are the latest market quotations for the leading foreign coins:

Mexican dollars	Bid. \$.56	Asked.
Peruvian soles and Chilian pesos	.52	.55
Victoria sovereigns	4.85	4.88
Twenty francs	3.86	3.89
Twenty marks	1.71	4.78
Spanish 25 pesetas	4.75	4.80

Our to-day's report must, of necessity, bear the im-print of the stirring times through which we are passing. Money was dear, hut now it may he said to he almost "out of sight," as $\frac{1}{5}$ to as high as $\frac{1}{16}$ of $\frac{1}{5}$ per day interest has heen paid for call loans, and silver, which a short time ago was in the eighties, has declined tremendously, touching as low as 60 in Thursday and closing at 65@67c. to-day. As can readily he imagined this state of affairs causes husi-ness in everything to he restricted as much as press-ing wants will admit, and the markets have all thus become more or less nominal.

thus become more or less nominal. **Copper.**—With the exception of casting copper, for which a very good demand exists at from 10%at from 10% copper, are disinclined to accept the low values, this com-modity is almost unsalable; the larzer lake com-panies hold for 11c., but other lots are offering and could certainly he bought at from 10% c. down to perhaps 10% c, but even such low prices as these at-tract neither attention nor buyers. Electrolytic is not offered at all at the moment, and Arizona pig copper guaranted 9% is firmly held at 9% c. Ex-ports continue to he made on a very large scale, and this will probably be the case for some months to come.

The firmer market in London which we reported last week exists no more, prices having declined about as rapidly as they advanced, G. M. B.'s being quoted at the close at £43 5s, for spot, and £45 15s. for three months, the speculative huying having en-tirely ceased. Consumers have not done anything to speak of for the last fortnight, and it is not to be wondered at that prices have collapsed. The mar-ket for refined and manufactured descriptions is so very nominal that we omit the usual quotations. The exports of copper from the port of New York during the past week were as follows:

To Liverpool	- Ce	opper matte.	Lbs.	
S. S. Bovic			461.024	\$20,000
		154 casks	196,128	8,700
" Adriatic.		4.885 bags	500,701	22,500
" Bissil		1.471 bags	140.110	16.300
" Halley		3,720 bags	423,108	22,800
To Liverpool	-	Copper.	Lbs.	,000
S. S. Bovic			56.250	\$6,000
		438 pigs	91,487	9,000
To Bremen-		Copper.	Lbs.	
S. S. Spree		1 pkg	900	\$98
To Rotterda		Copper.	Lbs.	
S. S. Edam		1.401 cakes	225,478	\$24,803
44 Gnamadan	0	15 caste	56,250	5,590
" "		930 plates	116.075	12,768
To Hong Kor	ng-	Copper.	Lbs.	
Ship Wm. J. F		36 cases	33,600	\$3,600
To Havre-		Copper.	Lbs.	
S. S. La Tourai	ine	62 ca-ks	77.000	\$8 900
44 64		187 pigs	56,231	5,293
60 66		21 plates	2,257	237

The has been very unsettled, due to the financial state of affairs commented upon elsewhere. In the seginning of the week the market was very strong, but it closes with 19% quoted for spot, 19% for July and 19% for August. The public transactions have not been large, but It is understood that a good many contracts have heen made privately, and tin which heretofore has been held by weak parties has been acquired by those that are strong, financially speaking. The last of the arrivals has also come in a decording to our calculations the total stock at present amounts to not more than ahout eighty-five hundred tons, enough to supply the ordinary consumptive demand of less than five months. The fuctuations in the London market have heen Monday last spot metal was quoted at £87, it has the ecline in that of silver. While on Monday last spot metal was quoted at £87, it has the price of tin lad down in London all depends to supprise demands the server to say here that the sort price of silver. The Metal Exchange "Report" says: According to present sublished of late, production of both the Banca and the Billiton mines is seriously decreasing, and the deficit for this year will probably exceed 2000 tons. For the near future it is not likely exceed 2000 tons. For the near future it is not likely exceed to the sort of the sort Tin has been very unsettled, due to the financial

Lead has been very much depressed; early in the week sales were made at 3'40, at which price the smelters practically withdrew, with the result that sales at 3'45 have followed. There are now a good many inquiries for forward deliveries, hut no sellers; 3'60 is now asked. The foreign market is very steady at £9 10s. for Spanish and £9 12s. 6d for English lead.

St. Louis Lead Market.—The John Wahl Com-mission Company telegraph us as follows: "Lead dull, with the demand very light. Last sales were made at \$3.20 with huyers holding off."

made at \$2.20 with buyers holding off." Spelter, in common with everything else, is dull; there are practically no huyers, this being especially true of the galvanizers, who are doing very little. The strike in the western coalfields continues, and we have to quote the market as nominal at 4:175/20 4:20 New York.

420 New 10rk. The foreign market we have to quote at $\pounds 17$ 16s. 5d. for good ordinaries and $\pounds 17$ 17s. 6d. for specials. Quicksilver.—There is a fair inquiry for this metal. Quotations remain unchanged at \$40 for New York and £6 17s. 6d. for London.

Antimony.—There is only a retail husiness doing Cookson's at 10½, L. X. at 10½ and Hallett's at

Platinum has been advancing somewhat lately and is now selling at \$11 per oz. The cause of the advance is found in the fact that the amount of ore coming to market is 25% less than during the same time last ycar. One reason given which seems to be plausihle, is that the winter was of exceeding severity and very late. This prevented mining oper-ations, hoth digging and washing, and there is there-fore really a short supply up to this time. It is probable that these conditions will soon change now that spring is fairly open and the hign price ought to stimulate every miner to produce all the ore he can. It would, therefore, seem as though lower prices would prevail before winter, hut the platinum market works very curiously at times and it is hardly safe to make predictions. Nickel.--Quotations for 98% to 99% are 50@52c.

Nickel.--Quotations for 98% to 99% are 50@52c.

IRON MARKET REVIEW.

NEW YORK, Friday Evening, June 30, 1893. **Pig Iron Production.**

	1	Week	From	From		
Fuel used.	June :	30, 1892.	Jan.,'93.			
Anthracite. Coke Charcoal	143	33,738 128,169 11,375	139	33,699 133,625 8,394	896,301 3,419,723 253,059	838,963 3,377,155 216,218
Totals	266	173,282	244	175,718	4,569,083	4,432,336

Totals....] 266 [173,282' 244]175,718' 4,569,083' 4,432,336
 Pig Iron.—There is absolutely nothing new to report of the pig iron market this week. The dullness is as great as ever, indeed, if anything, it is even greater just now than we have heen reporting for region, which are published in our mining news columns, indicate that a considerable reduction has heen made in the output of iron ore. At the same time we hear of furnaces going out of hlast, and all signs point to a decreased production of pig iron. All this would tend speedily to improve the market were it not that the financial condition of the country at large is not calculated to inspire very great confidence with any hranch of business. It is difficult to see how the future does not offer any hopes of improvement for some time to come. So far as actual trading in this market is concerned, we hear of nothing of importance. Prices are unchanged. We hear occasionly of sales at low prices, hut whenever this proves true, there is some especial reason for it, either that the grade is not a standard one. We quote: Northern hrands: No. 1. \$14.50@\$13.50; No. 2, \$13.75@\$14.50; (Gray Forge, \$12.50@\$13.60; Southern: No. 1, \$14.60@\$12.50; tidewater. Scotch irons: Coltness, \$21.50@\$22; Eglinton, \$19.50@\$20; Summerlee, \$20.50.

Billets and Rods.—There is no business of import-ance doing in this market. We quote: Steel hillets, tidewater, \$24@\$25; foreign, \$28.50@\$29; wire rods, \$33.50@\$34; foreign, \$40@\$40.50; Swedish, \$52@\$53.

tide water, \$24@\$20; 107e1gn, \$28:50@\$29; wire rods, \$33:50@\$31; foreign, \$40@\$40.50; Swedish, \$52@\$53.
Manufacture 1 Iron and Steel.—There is nothing new to report of manufactured iron and steel. Some small sales are reported. Prices continue low. We quote: Angles, 1.75@2c.; axlcs, scrap, 1.90@2.10c., delivered; steel, 185@2c.; bars, common, 155@1.40c.; refined, 145@12c.; car truck channels, 2@2.10c.; tannels, 1.90@2.10c. on dock; heoans, up to 15 in, 1.80@2c.; 20 in., 2.10@2.80c.; car truck channels, 2@2.10c.; tannels, 1.90@2.10c. on dock; hoops steel, 1.8@1.9c., delivered; links and pins, 1.85@2.10c., plates, bridge, 2@2.10c.; firehox, 2.5@2.8c.; flange, 2.210@2.25c.; marine, 2.50@2.75c.; sheared, 1.85@2.10c.; shell, 1.95@2.10c.; tank, 1.8@2.c.; universal mill, 1.80@1.90c.; tees, 1.95@2.15c., all on dock.
Merchant Steel.—There is nothing of interest to report of merchant steel. The market continues quiet. Quotations are : Tool steel, \$6,50@\$6.75 and upward; tire steel, \$2@\$2.10; toe calk, \$2.20@\$2.30. Bessemer machinery, \$2.10@\$2.20: ensemer bars, \$1.80@\$2; open hearth machinery, \$2.20; open hearth carriage spring, \$2.10@\$2.20: crucible spring, \$3.75 @\$4.

Old Material.—We do not hear of any business doing in old material. Quotations, in the absence of sales on which to base them, are nominally as follows: Old iron rails, \$15.50@\$16; steel rails, \$11.50 @\$13; car wheels, \$12@\$14.

(@\$13; car wheels, \$12(@\$14. **Rail Fastenings.**—The market for rail fastenings continues lifeless. Quotations remain : Fish and angle plates, 1:55(21:60c. at mill; splkes, 1:9(21:95c.; holts and square nuts, 2:45(2:50c.; hexagonal nuts, 2:55(2:60c. delivered. **Spiegeleisen and Ferromanganese.**—No husi-ness has heen done in either spiegel or ferro dur-ing the past week. Quotations are nominally as follows: 10 to 12% Spiegel \$22(@\$22.50, 20% \$256 \$25.50. Ferro, \$57(@\$37.50. **Steel Rails.**—This market continues quiet and de-void of features of interest. A few sales are re-ported, hut none was of importance. Quotations are unchanged at \$29 mill or tidewater. Girder rails, \$31(@\$33. Steel rails fit to relay can be had for \$20. **Tubes and Pipe.**—An average husiness is re-

Tubes and Pipe.—An average husiness is reported in this market. Ruling discounts on carload lots are as follows: Butt, hlack, $57/_{25}$, 10 and 5%; hutt, galvanized, 50, 10 and 5%; 10, phack, $67/_{25}$, 10 and 5%;

NOTES OF THE WEEK.

NOTES OF THE WEEK. At the conference now being held at Pittsburg, Pa., between the manufacturers and the Amalga-mated Association, the price of puddling was agreed upon at \$5 a ton. A late press dispatch states that there are strong probabilities that the union iron and steel mills in the Pittsburg district will close down at the end of this week. The failure to reach an agreement on the scale questions renders neces-sion of the iron wage scale little attention bas been paid in steel mills. Since last week the committee Association has daily held conferences on rates to he paid in steel mills. Since last week the committee Association has daily held conferences with the officials of Jones & Laugblins in an effort to reach an agreement. Reports given out at the conclu-sion of the different sessions always indicated ence between the men and the firm was almost in-significant. B. F. Jones, senior member of the steel firm, plainly and openly, it is said, told the workers' representatives that 30% reduction in every branch of the strel department must be accepted. There is astrong feeling on the part of the was minist accepting such a heavy cut and it is understood that the conference committee was instructed not to make any sinch concessions. The Cincinnati Rolling Mills Company, of Cincin-

make any such concessions. The Cincinnati Rolling Mills Company, of Cincin-nati, O., has signed the scale for '93-'94.

The conclusion and the scale for '93-'94. The stockbolders of the Bethlebern Iron Company held their annual meeting at Bethlebern, Pa., on June 27th. Hon. Charles Brodbead was chairman. The number of shares represented was 66,000. The following Board of Directors was elected: Rohert H. Sayre, Sr., E. P. Wilbur, R. P. Linderman, George H. Myers and John Fritz, of Bethlehem, and Josepb Wharton and Beauveau Borie, of Philadel-phia. The President's annual report was received with great satisfaction. The Board of Directors afterwards elected R. P. Linderman, president; Robert H. Sayre, vice-president and general mana-ger; John Fritz, consulting engineer; second vice-president, Russel W. Davenport; superintendent, Owen Leibert; assistant superintendent, Robert H. Sayre; treasurer, C. O. Brunner, and secretary, Abrabam S. Schropp. **Buffalo.** June 29.

Buffalo.

(Special Report of Rogers, Brown & Co.)

June 29.

Business in this territory during the week bas been very largely confined to malleable brands, some good-sized contracts having been placed. Work at the foundries is dropping off rapidly, as is usual at this time of the year. Demand for pig iron for gray iron use is naturally decreasing correspond-ingly. ingl W

ingly. We quote for cash f. o. b. cars Buffalo: No. 1 X foundry strong coke iron. Lake Superior ore, \$14; No. 2 X foundry strong coke iron. Lake Superior ore, \$13.25; Ohio strong softener No. 1, \$14; Ohio strong soltener No. 2, \$13 25; Jackson County silvery No. 1, \$17@\$17.30; Jackson County silvery No. 2, \$16.30@ \$16.80; Lake Superior cbarcoal, \$16.00; Tennessee charcoal, \$16; Sonthern soft No. 1, \$13.65; Alahama car wheel, \$18; Hanging Rock charcoal, \$20.50.

Chicago. June 29. (From our Special Correspondent.)

Pig iron bas fallen several points; iron and steel of all descriptions are very low in price and weak, and, while the outlook is perbaps scarcely as uncer-tain as it was several weeks ago, it is bad enough. The general curtailment of operations at blast fur-nace and mill will afford breathing time to many of them and will probably he the only means to cor-rect the evil of overproduction.

rect the evil of overproduction. **Pig Iron.**—Large consumers in the implement trade bave placed their annual contracts for local coke iron. The aggregate tonnage was the same as last year. The buyers realized that raw material was exceedingly low, and that this was a propitious time to close. Inquiry is a little better, and local furnace agents begin to feel more hopeful of the near future. Southern Coke Iron.—Selling agents are crowd-ing the market in everá way possible, wbile buyers are taking such material as they require at pretty much their own figures. There is a very moderate inquiry for small lots, and several for 500 to 1,000 tons, but there will be no activity at all until August. Lake Superior cbarcoal iron con-tinues dull. Quotations per gross ton f. o. b. Cbicago are: Lake

Quotations per gross ton f. o. b. Cbicago are: Lake Superior cbarcoal, \$16.25(#\$16.75: Lake Superior coke, No. 1, \$13.75(#\$14.00; No. 2, \$13.25(#\$18.50; No. 3, \$12.25(#\$12.50; Lake Superior Bessemer, \$14.00; Lake Superior Scotch, \$14.50(#\$15; American Scotcb, \$16.00(#\$16.50; Southern coke, foundry, No. 1, \$14.00; No. 2, \$12.35; No. 3, \$12.00; Southern coke soft, No. 1, \$12.75; No. 2, \$12.35; Ohio silveries, No. 1, \$16.50; No. 2, \$12.25; No. 3, \$12.00; Southern coke soft, No. 1, \$12.75; No. 2, \$12.50; Ohio silveries, No. 1, \$16.50; No. 2, \$12.55; Tennessee cbarcoal, No. 1, \$17; No. 2, \$16.50; Southern standard car wheel, \$18.50(#\$19. Structural Iron and Strel., -Several specifications

Southern standard car wheel, \$13,00@\$19. Structural Iron and Strel.—Several specifications are in the market for hridgework, but the tonnage is small and competition keen. Building material is being taken in a retail way at low prices. Quota-tions, car lots, f. o. b. Chicago, are as follows: Angles, \$1.75@\$1.85; tees, \$1.95@\$2.05; universal rlates, \$1.75@\$1.85; seared plates, \$.75@\$1.85; beams and channels, \$1.80@\$1.90. Plates.—While warehouse trade continues fair

Plates.—Wbile warehouse trade continues fair, ill business is slow and prices irregular. Steel peets. 10 to 14, \$2.25@\$2.35; iron sheets, 10 to 14, mill busines

\$2.20@\$2.30; tank steel, \$1.90@\$2; sbell iron or steel, \$2.50@\$2.75; firebox steel, \$4.25@\$5.25; flange steel, \$2.74@\$3; boiler rivets, \$4@\$4.15; boiler tubes, all sizes, 65%.

all sizes, 65%. Merchant Steel.—Several large plow manufactur-ers placed contracts during the week for miscella-neous steels, and specifications are out from other implement men, indicating that a general buying motement has set in from tbls class of trade. The tonnage placed so far is fully as large as last year. Quotations are: Tool steel, \$6.50@\$6.75 and upward; tire steel, \$2@\$2.10; toe calk, \$2.30@\$4.240; Bessemer macbinery, \$2.10@\$2.20; Bessemer bars, \$1.60@\$1.70; open bearth machinery, \$2.25@\$2.30; open hearth carriage spring, \$2.10@\$2.20; crucible spring, \$3.75@\$4. Galvanized Sheet Iron.—There is a steady

Galvanized Sheet Iron.—There is a steady though quiet run of warebouse business, but orders for mill lots are scarce. Discounts are un-changed at 70, 10 and $2\frac{1}{2}\%$ off on Juclata and 70, 10 and 10% off on charcoal and jobbing quantities at 70 and $7\frac{1}{2}\%$ off on the former and 70 and 10% off on the latter tbe latter.

Black Sheet Iron.—Orders of any size are few and far between, carloads are still called for, and deliv-eries to dealers are row quite large. Prices are steady at 2:80c. for No. 27 common, Cbicago. Jobbers quote 3c. for iron and 3:10@3:15, for steel, same gauge.

Bar Iron.-Annual contracts bave been booked at **Bar Iron.**—Annual contracts bare been booked at very low prices, and many agents of mills east of here persistently refuse to meet the figures named by mills near here. Quotations vary considerably on season's husiness, ranging from 1'45 to 1'53c. Some lively competition is expected on the 200 re-frigerator cars just booked by a firm here. Jobbers quote 1'65@1'75c. on iron and steel bars, and trade out ouist.

Nails.—Steel cut nails are in poor demand from mill and weak at \$1.20. Jobbing quotation is \$1.30 in small lots. Wire nails are in better demand in lots of 500 to 1,000 kegs, and price is firmer at \$1.45, some mills ask \$1.50. Chicago jobbers report a fair demand from stock at \$1.60.

Steel Rails.—The best that can be said is that the steel company is booking enough small orders to keep their South Chicago works busy. As to when the Joliet mills or the Union works on Stewart avenue will start up is a conundrum. Prices are unchanged at \$30@ \$31.

unchanged at \$30@ \$31. Scrap.-Offerings hv railroad companies are fre-quent, but dealers refuse to bid, and are only sup-plying steady customers. Prices are nominal. Rail-road, \$13.50; No. 1 forge, \$12; No. 1 mill, \$0.00; fisb plates, \$14.50; cast borings, \$5.00; wrought turn-ings, \$7.50; axle turnings, \$3.50; macbinery cast-ings, \$10; stove plates, \$1.50; mixed steel, \$9; coil steel, \$15; leaf steel, \$15; tires, \$14.50.

steel, \$15; leaf steel, \$15; tires, \$14.50. Old Material.—Despite the sbutdown of mills, some of the stronger bave bought a very beavy ton-nage of iron rais for quick delivery at a low cash price. These iron rails are in several lots at widely apart points, but an approximate price here would be about \$16.50@\$17. Consumers here assert they would not offer over \$16@16.25 f. o. b. Chicago. Old steel rails are very dull at \$1.25@\$13.50 as to condition, length, etc. Car wheels unchanged at \$14.50. \$14.50.

Philadelphia.

(From our Special Correspondent.)

June 29.

(From our Special Correspondent.) **Pig fron.**—Scarcely any business has been done this week. A few offers made last week were re-jected to day. There is no market for forge at any price. The suspension of work at the bar mills cuts off demand for the next two or three weeks. The foundries will run steadily all summer. No. 1 foundry iron, of good grade, can be bad at \$15; stove iron at \$14.50. Southern irons are heing offered, but the inducements are less than the risks, and hence there is no business. but the inducements are bence there is no business.

Steel Billets. -Offers have been made for large lots of steel billets for delivery as late as Septemher, the reason being that buyers are somewhat appre-hensive of an upward movement in material in July. Manufacturers bave been disappointed with the amount of business done during June.

Muck Bars.—Millowners expect to resume about the middle of July, with a good deal of business.

the middle of July, with a good deal of business. Merchant Iron.—Tbe repairing season begins Wednesday. All mills sbut down on Saturday. Quite a number of concerns will not be started up until orders justify. This means less competition and probably a little improvement in prices. Sev-eral manufacturers have said that since pig iron was advanced 50c., they have been making no money, and that bars must advance, or they will sbut down. Quotations, \$1.60@ \$1.70. Nails. There is a remachable setting distribution.

Nails.—There is a remarkably active distribution of cut nails. Some people who bave been using wire nails are coming back to cut. Some concerns are turning very mean cut nails, made largely out of old rails.

Sheet Iron.—All the nills will be idle for perhaps two weeks. Stocks of sheets have been accumulat-ing at stores. Business has been unimportant lately. The strongest feature of the market is the probable demand of stove manufacturers, who will place a good deal of business in July, if prices suit.

Skelp.—The situation bas not improved suf-ficently to warrant an early resumption. Millmen say there is a large amount of business talked of, but that is all.

Wrought Iron Pipe.—The only business heard of lately is in a retail way, from stocks in stores.

Plate and Tank Iron.—The week has been with-out special features. There is a great deal of work in band, which is absorhing plate mill stock, for which orders have not yet been placed, and which will no doubt come along fast enough to keep mills-busy. Ordinary plate, 175c.

Structural Material.—The news of the Bourse contract of 3,000 tons came out just a day too late for last week's report. There are several other small contracts for office building and bridge work, which will foot up, the brokers say, some 3,000 tone tons.

Steel Rails.—The steel rail makers have acquired such a complaining babit that they continue to re-port the rail market dull when it is not. The busi-ness for June bas shown quite an improvement, but all the orders are small.

Old Material.—A great deal of old material ls being gathered at the yards, but there is no particu-lar sale for it at present.

Pittsburg.

(From our Special Correspondent.)

(From our Special Correspondent.) (From our Special Correspondent.) Raw Iron and Steel.—There is not mucb of an encouraging nature that can be said in the way of trade at this time. There is an unusual complaint of dulhess in the iron market, several influences combining to induce caution hy botb producers and consumers. The outcome of the wage dispute is awaited witb the greatest interest, and mills are delaying to close contracts until the situation shall develop further. Buyers are taking only enough for immediate requirements, and the dis-position seems to be to constantly reduce the size of the orders. Under this condition of affairs prices have become perceptibly weaker. Witb the excep-tion of city furnaces on favorite brands of material there seems to be no standard price for anything, the ability of the buyer to pay cash enabling him to about make the price to suit bimself. The situation at present is a very unsatisfactory one. The question as to wbe ther there will be a strike or a satisfactory arrangement will probably he settled during the coming week. Meetings have been held daily, but so far no conclusions have yet been arrived at. Business seems to be paralyzed. Sales for cash are reported at very low figures; the rates were even below those of last week.

Coke Smelted Lake and	l Na.	Billets and Slabs,	
tive Ore.		1.000 B., July. at mill.	21.85
	Cash.	500 B., Im'e, at mill.	21.75
1,500 Bessemer. June,		500 B, July, at mill.	21.75
July	\$13.35	300 B., July, at mill.	21.70
1,000 B., June, July	13.30	300 B., Spot, at mill.	21.65
1,000 B, prompt	13.40	250 B., June, at mill.	21.75.
1,000 Gray Forge	12,20	Skelp Iron.	
750 B., City Furnace	13.40		
750 B., July	13.35	150 S. Iron\$1.624	4 m.
500 B., August	13,40	150 W. G 1.4214	4 m.
500 Grey Forge	12.10	100 N. G 1.4214	4 m.
500 Grey Forge	12.15	Steel Skelp.	
300 Grey Forge	12.25	180 W. G\$1.40	4 m.
200 No. 1 Foundry	14.00	Blooms, Billets and	Ran
200 No. 2 F	13,00	Ends.	Dui
200 GreyForge, Aug.	12.10		
150 No. 1 F	14.00	900 B. & B. E	\$14.75
150 No. 1 S	15.75	200 B. E	14.50
100 No. 2 S	14.75	Sheet Bars.	
100 Off B	13.00		
Charcoal.	10.00	100 S. B., at mil	27.75
100 No. 2 F	18.65	Ferro-Manganese,	
100 C. B.	25.00	180 80% delivered	
75 C. B	26,00		99.90
75 W. B	19.40	Scrap Material.	
50 C. B., extra	30.00	200 cut pipe and tank,	
Muck Bar.	00.00	net	12.25
300 N.	23,00	100 car wheels, gross	12.00
300 N	22 80	100 steel scrap, gross	13.00
950 N	22.75	50 leaf steel, gross.	20.50
250 N	46.10.	ovical sicci, gruss	20.00

Cartagena June 20. (Special Report of Barrington & Holt.)

Cartagena. June 20. (Special Report of Barrington & Holt.) The South of Spain iron ore market continues in the same unsati-factory condition; tonnage is still vere a fortnight back. The prices of ore at mines on wharf remain unchanged. A few orders for Portman ore have beenbooked for United Kingdom, and Germany is making purchases of loose cargoes. Exporters have always looked on America as the best market for their ore, but so far this year there is practically no ore going that way. Rates of frelight paid during June bave been: Cartagena to Middlesboro, 8s. 3d.; to Rotterdam, S. 9d., to Barrow, 8s. 3d.; to Glasgow, 6s. 9d. Quotations for July are as follows, per ton f. o. b. at Cartagena or Portman: 50% iron, 005% phosphorus, 5s. 6d.@6s.; 50% fron, 003% phosphorus, 6s. @6s. 6d.; Carganil Sud, 43% iron, 01 phosphorus, 6s. @6s. 6d.; 7% manganese, 03% phosphorus, 98. @98. @98. 03 phosphorus, 12s. 6d.; B manganiferous, 25% iron, 17% mangenese, 035 phosphorus, 6s. Manganese, 035% phosphorus, 6s. To marganese, 063% phosphorus, 6s. To manganese, 063% phosphorus, 6s. To manganese, 063% phosphorus, 6s. To manganese, 063% phosphorus, 6s. To myrites, 40% iron, for forward delivery, are guated at 11s. Manganese ore for forward delivery.

COAL TRADE REVIEW.

NEW YORK, Friday Evening, June 30. PRODUCTION OF COKE on line of Pennsylvania R, R, for the week ending June 24th, 1893, and year from Jan-uary 1st, in tons of 2,000 lbs. Week, 85,670 tons; year, 2,636,768 tons; to corresponding date in 1892, 2,705,236 tons,

Statement of shipments of anthracite coal (approxi-

mated) for week ending the corresponding peri-	June 2	ith, 18	93, co	mpare	d with
Wyoming region Lehigh region Schuylkill region	June 24, 1893. Tons. 5t6,822 150,972 254 819	18 T 535 127 239	ne 25, 92. ons. .267 .261 ,754	Diff Dec. Inc. Inc.	23,7t1 15,0.5
Totals. Total for year to date20	922,613 147,579		282	Inc. 1	20,331 1,516,638
PRODUCTION OF BITC June 24th and year from			for	week	ending
Shipped East and Nor Phila, & Erie R. R Cumberland, Md Broady, Pa Broad Top. Pa Clearfield, Pa Allezheny, Pa Beach Creek, Pa. Pocahrutas Flat Top Kanawha, W. Va Total.	th: W 1, 80, 80, 70, 22, 25, 47, 46,	897 905 687 344 721 897 138	3 Yean 45,3 1,930,4 30,2 345.8 2,071.7 637,5 790,11 1,413.6 1,512,7 3,778,15	r. 09 13 1 19 72 67 1 96 95 1 46 1 ×2 1	1892. Year. 43,383 98,649 28,837 1,861,314 595,352 ,227,932 100,845 ,181,411 ,181,411 ,181,458
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9.812.542 Anthracite.

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The reports of the auction sales of Reading coal were too absurd to be credited by any one who knows anything about the coal trade or about the bisiness relation of the Reading Company and the Finance Company. Actual selling prices are 15%20c, below the official schedule, which is as follows:

Hard white ash	Broken. 34 00	Egg. \$4.10	Stove. \$1.40	Chestnut.
Free white ash	3.90	4.00	4.49	4.40
Shamokin Schuylkill R. A		4.35	4.60	4.40
Lykens Valley	5.00	4 65	6.00	5.25

The Reading Railroad system reports that its coal shipment (estimated) for last week, ending June 24th. was 470,000 tons, of which 38,000 tons were sent to Port Richmond and 50,000 tons were sent to New York water. to Port Richn York waters.

York waters. The statement of the Philadelphia & Reading Coal & Iron Company for the month of May, 1893, shows that the gross receipts were \$3,660,347, against \$3,541,537 for the same month of 1892. The gross expenses were \$3,802,070 for May, 1893, against \$3,-521,272 for May, 1892. For the year, from December 1st to June 1st, the gross receipts were \$21,233,316 for this year, against \$12,134,241 last year. The gross expenses during the same time were \$21,433,513 and \$12,008,808 for 1893 and 1892, respectively. The loss for the half year has therefore been \$20,007. Bituminous.

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Biss for the half year has therefore been \$20,007.
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Bituminous.
There is but little change to report of the bituminous trade. If anything, there have been a few more orders in the market. Contracts generally have already been closed, with the exception of some of the New England railroads, of which mention has already been made in these columns. These Eastern roads usually contract for their coal in May, but this year they have not done so as yet. All along they have held off for lower prices, in expectation of a reduction in the through rates, which would enable producers to name lower prices. The main line through roads have, however, adhered to their determination to maintain rates, and no concessions have been made by them. Unless these coal-carrying lines make some "allowances," producers declare that they cannot shade the prices, especially in connection with the New England rail-road, contracts where there is no margin.
The transportation on roads to tidewater has improved so newhat and coal is reaching the shippers is good. There are a few more light draught vessels, although by no means sufficient to meet the demand for such vessels for the shoal water Eastern ports. Generally speaking, vessels arollows this week: From Philadelphia to Boston, Salem and Portland, 75c.; Sound ports, 70c.; Ware, Salem and Portland

News rates are 10c, above Philadelphia. The coal trade will hear with much regret of the death of George P. Bangs, of the well known firm of Bangs & Horton, Roston, Mass. After an illness of many months he died of pneumonia at his residence, in Boston, on Wednesday last. For a long time the firm. of which he was the senior member, has handled amounts of both anthracite and bituminous coal, and stood in the front rank of New England dealers. For many years it was the agent of the Maryland Coal Company. Few men had a wider circle of business friends and acquainlances than had Mr. Bangs, and he will long be remembered as a man of energy, tact, honor and geniality.

Boston.

(From our Special Correspondent.)

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Buffalo.

(From our Special Correspondent.) The anthracite coal trade is very quiet and prices unchanged. Orders few and far between. There is a good shipping business by lake to the West and Northwest and freight rates are without variation. Bituminous coal fairly active at steady figures for propulses tings and manufacturers' use Supply

propellers, tugs and manufacturers' use. adequate to demand.

adequate to demand. On Saturday next, it is understood, that quota-tions of anthracite coal in the market will be ad-vanced 25c. per ton both at whole sale and retail. The shipments of coal by lake west ward from Buffalo for the week ending June 24th were 100,435

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Chicago. June 29.

(From our Special Correspondent.)

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Pittsburg. June 29.

(From our Special Correspondent.)

(From our Special Correspondent.) **Coal.**—The low watr in the Ohio River con-tinues; of cour-e there was no coal shipments. The Pittsburgh harbor and the lower landings are now stockrd with coal, with towhoats plenty to convey the same to the lower markets. The June rise has failed so tar; we may expect one in Julr. The Davis Island dam continues to furnish over 6 ft. of water, thus enabling to bring coal from the pools to be readv for the first rise. A purebase of 3,000 acres of coal lands in the vicinity of Landing on the Mo-nongah-la bas just been consummated; average price, \$35 per acre. Four mines have been located, and in the near future that section will be the scene of activity. of activity.

Connellsville Coke.—Prices remains as follows, per ton of 2.000 lbs. f. o. b. at ovens: Furnace coke, \$1.75: foundry coke, \$2.15. Delivered at Pittsburg: Furnace, \$2.45; foundry, \$2.85. Freights from Con-nellsville ,to Pittsburg 70c. per ton.

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JULY 1, 1893.

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The trade at present is in a very restless condi-tion, over 250 ovens were blown out and production has dropped about 6,172 tons. Demand continues very light and prices are wavering. The depend-ence of coke upon iron trade is well shown by the present condition of affairs.

CHEMICALS AND MINERALS. ing.

CHEMICALS AND MINERALS. New York, Friday Evening, June 30. Heavy Chemicals. -There is absolutely nothing new to report of the heavy chemical market this week. Dullness reigns supreme and there is no sign of a speedy improvement. Carbonated soda ash and alkali are w hout any activity; we hear of some offers at very low prices, but in most cases they are re-sale lots offered by consumers who cannot afford to carry much stock at this particu-lar time. The glass men are idle and no business in these chemicals need be looked for, for some weeks at least. Caustic soda is quiet, although we hear of a more active demand from those buyers who are contracted for. New business in all the chemicals is very small. Statistics prove that the shipments of heavy decrease when compared with May, 1892. The fol-lowing figures show the shipments for that month of 1893 and 1892, respectively: Caustic soda, 1,242 tons, against 4,202 tons; carbonated soda ash, 7,001 tons, against 6,211 tons (an increase); salt cake, 1,346 tons, against 1,781 tons; sal soda; (63 tons, against 3,50 tons; bleaching powder, 3,370 tons, against 3,993 tons. Prices are nominally quoted as follows: Caustic soda, 6%, 20-503-10c; 70%, 2.70@2.90c, 74%, 2.724/@2.824/c; 76%, 2.80@2.90c. Carbonated soda ash, 48%, 1.20@1.30c; (58%, 1.20@1.25c. Alkali, 48%, 1.20@1.30c; (58%, 1.20@1.25c. Al

Acids.-Despite the difficulty of making collec-tions brought about by the tight money market and the financial depression which prevails in many quarters, the acid maket continues in a fairly good condition. The volume of business doing just now is satisfactory, when the season of the year is con-sidered. There is no change in prices to report this week, and we quote: Acid, per 100 lbs, in New York and vicinity, in lots of 50 carboys or more:

Acetic, \$1.871/(@\$2, according to quality; muriatic, 18°, 90c.@\$1.10; 20°, \$1@\$1.25; 22°, \$1.10@\$1.35; nitric, 40°, \$4; 42°, \$4.50(@\$4.75; sulphuric, 80c.@ \$1.10; mixed acids, according to mixture; oxalic, \$6.30@\$6.50. Blue vitriol is quoted all the way from \$3.50 to \$3.75; glycerine for nitro-glycerine, 11/(@12/2/cc, according to quality and quantity. Brimstone.—This market continues very quiet and devoid of features of interest. There are no stocks on the spot. Quotations for shipments are: \$19.25 for best unmixed seconds and \$18.25 for thirds.

thirds

\$19.25 for best unmixed seconds and \$18.25 for thirds. Fertilizing Chemicals.-Great dullness prevails just now in the fertilizer market. The effects of the financial stringency are being felt by traders, and there has been little, if any, inclination on the part of manufacturers to purchase supplies at this time. Prices are slightly lower than last week, but there are no great stocks on hand. However, there is no demand and even at lower prices no business of consequence need be expected. The outlook for this business, of which long credits are a prominent feature, is not promising. We quote this week: Dried blood, \$2.30@\$2.35 per unit for high grade, and \$2.20@\$2.25 for low grade; azothe, \$2.35@\$2.40; sulphate of ammonia, \$3.15 for gas liquor; bone liquor is offering at \$3.10. Concen-trated phosphate (30% available phosphoric acid), 75c. per unit. Acidulated fish scrap, no stocks on hand; dried scrap is quoted at \$27.50 f. o. b. fish factory. The fish catch thus far has been very light. Tankage, high grade, \$24@\$25; bone meal, \$24@\$25.50. The price of double manure salts as fixed by the syndicate is as follows: New York and Boston

\$24(a\$25.50. The price of double manure salts as fixed by the syndicate is as follows: New York and Boston, \$1.12; Philadelphia, \$1.141/3; Charleston and Saran-nah, \$1.17 cwt., basis 48(50%, in 50 ton lots on foreign weights and analyses. Sulphate of potash, 90%-96%, basis 90%: New York and Boston, \$2.07; Philadelphia, \$2.094/2; Charleston and Savannah, \$2.127, sulphate of potash, 96-99%, basis 90%, is 4% higher.

⁷ higher. Phosphates.—Quotations for high grade land rock, o. b. Charleston, are \$4.50@\$4.75. Freights re \$2.25. f

f. o. b. Charleston, are \$4.50(2)\$4.75. Freights are \$2.25. Muriate of Potash.—Arrivals during the past week aggregate 400 tons at the various ports. There is no new business of consequence to report. The mar-ket is very quiet. The prices fixed by the syndicate for 1893 are as follows: New York or Boston, \$1.78; Philadelphia, \$1.80½; Southern ports, \$1.83. Kainit.—Practically nothing is doing in kainit. Quotations for shipments previous to September are as follows: New York, Philadelphia and Bos-

ton, \$8.75 for foreign, invoice weight and test, and \$9 for actual weight; Charleston, Savannah and Wilmington, \$9.50 for invoice weight and test, and \$9.75 for actual weight. Shipments after Septem-ber 1st, 25c. higher. Nitrate of Soda.—The nitrate market is stronger and prices have stiffened somewhat, owing to an increased European demand. Quotations are: \$1.70 @\$1.75 for goods on the spot and \$1.827/@\$1.85 for futures, with no business to report in the latter. Laverprovel.

(3\$1.75 for goods on the spot and \$1.82%(3\$1.85 for futures, with no business to report in the latter. Liverpool. June 15. (Special Correspondence of Jos. P. Brunner & Co.)
There is no improvement to report in the condition of heavy chemicals and the monotonous cry of dull trade is still the general complaint. Soda ash is in retail demand and quotations are quite unreliable, varying considerably, according to export market, quantity, quality, etc. For Leblanc makes the nominal spot range is about as follows: Caustic ash, 48%, f4 15s. Qef5 per ton; 55%, f5 5s. Qef5 15s. per ton; for 58%, f5 10s. Qef5 per ton; 57, 58%, f5 5s. Qef5 15s. per ton; for 58%, f5 10s. Qef5 per ton; 58%, f5 5s. Qef5 15s. per ton; for each ash, 58%, is slow at f4 7s. 6d. Qef4 15s. per ton; less 2½%; a ccording to brand. Soda crystals are not active, but prices remain steady at £1 7s. 6d. Qef4 15s. per ton; f64, f11 10s. Qef210 per ton; 76%, f11 0s. Qef210 per ton; 76%, f11 Qef11 per ton; 76%, f11 10s. Qef212 per ton, net cash. For parcels under 10 tons, 5s. per ton extra is charged. Bleaching powder is firm at £1 0s. Qef2 10 Gef11 per ton; 76%, f11 Qef212 per ton; 76%, f10 Qef11 per ton; 76%, f11 Qef212 per ton; de every dull position, and buyers hold aloof. We quote: Prompt, S%(28'24, per 1b.; July, S'44, possibly S'44.; July December, 74%(74%, d1, all less 5%. For delivery over all 1894 the syndicate quotes of. dor ther markets. Blearb. soda is in moderate request at f6 15s. per ton, less 24% for good grey, 24-25%, in double bags for b. here. Nitrate of soda is inactive and quotations range from £8 15s. per ton for low quality up to £9 5s. ner ton for best white, both in double bags 1.6.8. Befs. Sol. as not for best white, both in double bags 1.6.8. Befs. Der ton for best white, both in double bags 1.6.8. Sol. per ton for best white, both in double b

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 Cadmium Iodide-#lb.
 \$2.00

 Cadmium Iodide-#lb.
 \$5.50

 China Clay-English, ¥ton.
 \$1.50@\$2.25

 Precipitated, \$D.
 \$6.40

 China Clay-English, ¥ton.
 \$1.50@\$2.55

 China Clay-English, ¥ton.
 \$1.50@\$15

 Domestic, ¥ton.
 \$1.50@\$15

 Chrome Vater-#B.
 \$1.60@\$15

 Chrome Yellow-#B.
 \$10@\$25

 Chrome Iron Ore-# ton, San
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 \$10.00

 Chrome Iron Ore-# ton, San
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 Copper-Suiph. English Wist.ton \$20@\$21
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 Copper-Suiph. English Wist.ton \$20@\$21.10
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 Liverpool, ¥ton, in casks.
 \$2.30@\$1.50

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 Coru ndum-Powdered, ¥ B.
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-	Jun	e 24.	Jun	e 26.	Jun	e 27.	Jun	e 28.	Jun	e 29.	Jun	e 30	+ 1	Duluth. LISTED STOCK Pa
NAWPS OF STOCKS.	H.	L.	н.	L.	н.	L.	H.	L.	H.	L.	н.	L.	Sales.	Biwabik M. Iron Co10 Cincinnati Iron Co2
m Coai														Clark Iron Co Cosmopolitan Iron Co Great Northern Min. Co
alt. & Ohio do pref uff., R. & P			743% 32	7336	731% 3134				72				1,239	Kanawha Iron Co
					3198		3136	311/4			•••••			Keystone Iron Co Lake Superior Iron Co
ambria iron hes. & Ohio do. 1st pref	17	16	161/8	13%	1756	163	1794	17%	17	16	173	1674	20,258	Lincoln Iron Co1
do. 1st pref do 2d pref pl. C. & 1					1246		13	12			2394			Mesaba Moun. Iron Co 10 Minneapolis Iron Co10
ol. Coal			····40		41		8916		37	363	87		970	Mountain Iron Co
do. pre: ol., H V.& Tol.	2016		19%		2044	60	1936		80 19 3 4	19	20%		1,453 19 668	Security Land & Exp. Co. 1 Washington Iron Co
do. pfd ol. & H. Coal do. pfd			8		62 8		. 8¼	8			8	756	5,569	UNLISTED STOCH
ons. Coal.	12136		120%	120	121%	120	119%	11936	1201	119	119%	1	43,671	Agat - Copper Mining Co Allegheny Iron Co
lunt. & B.Top.	147	14454	14634	144%	149%	144%	148% 35%	146%	14614	14456			160	Aurora Iron Co
do pref ake Erle&Wes	50 175g		5014 1634	50 69	50 1636 6934					:6 6934			382 1,000	Buffalo Land & Exp. Co Camden Iron Co
do. pref ehigh C. & N ehigh Valley	50½ 41%	50 4036	50%	50 41	50 41	493	1 20	3934	' 30				1,210 765 18,438	Chandler Iron Co
aryland Coal.														Chicago Iron Co1 Charlestoa Iron Co1 Champion Iron Co1
do. pref lorris & Essex. ew Cent. C .al.			142										100	Cleveland Iron Co
J. Central Y., L. & W Y., L. E.& W	1051/8		105	104	104	103		100	100	9974			8,421	Columbia Iron Co1 Commodore Mining Co
uo. prei	1796		17%	16%	17% 37 12%	165	. 35				165		18,611 310 1,315	Comstock Iron Co1 Dayton Iron Co1
do. pref	1240		121/4	123%	121/8						129		1,315	Elmua Land & Iron Co
do. pref enn. Coal	295	290	2334		23	223						1	1,030	Great Western Muning Co.1 Hall Iron Co
enn. R. R	50%	501/4	1436	1:16	509s 153g	50 ¹ 138	4 144	137	145	134	14%	144	5,790	Homestead Iron Co
do. pref Wheel. & L. E	15%		151/4	15	15%	133	4 133	127	183	12	163	13%	8,877	Imp. Iron Mt. Mining Co. Internat'l Development
do. pref	14%	473			5 3		14	13 444	134	12	13%	12%	1,346	the large Trees (to
	1	1	1	Tote	Ishar	l es sul	Id. 221,6	26	1	-			1	Lackawanna Iron Co
				1014	- one									Macomber Mining Co McCaskill Mining Co McKinley Iron Co
		NDU	ISTR	IAL	AN	DT	RUS	TS	TOC	KS.				Mesaba Chief Iron Co]
	Jun	e 24.	Jun	ie 26.	Jur	ie 27.	Ju	ne 28.	Jur	ie 29.	Ju	ae 30.		Mesaba Iron Co Mesaba Mineral Co
NAME OF STOCKS.		1 .	н.	L.	н.	L.	Н.	L.	Н.	L.	н.	1.	SALES.	Minnesola Iron Co Myrna Iron Co Northern Light I-on Co
	H.	L.	n.	1.	n.	1	n.	L.	n.	1 1.	п.	L.		New England Iron Co]
dams Expres	853	071	35	33	353	35	351	348					9,29	Obio Mining Co1 Oneota Iron Co
m. Cotton Oll do. pref. m. Dist. Tel m. Express	69		1 1001		684				1 001	65%	68	33%		Pennerlyania I kr S Co 1
m. Express m. Sugar Ref.	818	81	1'0	1736	110		. 110	106				1 787	11	5 Pioneer
do. pref . Edison E.III.Co	813	81	834	18	819	74	80 SO	178	78	77			4,00	Rouchleau Iron Co
Edison Gen El. Nat. Cord. Co.,	12	695 113	111	§ 101/2	693 11	10	54 695 54 105	665	. 105	6 631 6 98	6 705 103	681 681 99		Red Hematita Iron Co
do. pref do. New Nat.Lead Co		31	40%		405			283	2 901	· 27	80			Stowen Iron Co
do. pref	. 68	1	. 63 224		70		·· t73	á	67 203	651	6 66	253	2,28	Ver. & Mesaba Iron Co
So. Cotton Oll					55		51							MISSOUR
do, pref.	. 39	6 38 77	- 38 75		38	87 6 70	87 74	36	343	é			1,90	St. LUUIR
Wells, Fargo E Western Union	823	8 823	\$ 825	814	883	\$ 81	58 82	795	81	793	8 823	4 795	71,67	
	1	1	1	. 1	Total a	ales,	406,684			1	,	-		American & Nettie, Colo. Bi-Metallic, Mont
						-								Granite Mountain, Mont.
		FOR ranc								spr		Bid .	ne 24. Asked	Hope
	CL	D81NG	QUOTA	TIONS.	-		Anaconda Gold						Small Hopes	
STOCKS. Jun 23.	e Jur	e Jur 26.	e Jur 27.	le Jun 23.	e Jun 29		anny	Rawl	ins			.10	.121/2	
Alpha						· G	old &	Glob	B	•••••		.06	.08	Prices for the week endi
Belcher	.9	.75	1.1.	.60	.50		ack F	ot	•••••	• • • • • •	••••	.111%	.15	Bald Butte (Mont.)
B. & Belch .8 Bodle2) .S	.20		63	.10		eff Da	vis				.00%	.01	Combination Phillipublicit
Chollar.	1 .1	.10	1. 10) . (.10	' I N	latoa					.04	.051	Elizabeth (Phillipsb'g), Mo
Con. C.&V. i.60	1.7	1.7	1.5	5 i.5	4		phir rphan	Bell					.241	Helena & Victor, Mont
Crown Pt Del Monte						SP	harm ummi Vork	t M	& M.			.04	.16	Peorman (Courd'Alone)
G'id & C'y .5	·····	5		5	.4	; V	Vorld.			•••••		.03	.04%	Whitlach Union & MacInt Yellowstone
M. White	0.4	0 .4	5			'.	Dela			enve			0-31	(Special report by SAM'
Mono9 Mono1 Mt. Diable	0 .1	U	.1	0 .10)]]	une 3	d:	5816				ending	Philadelphi
Navajo Nev. Qu'n. N.B'lleisle						- A	nacor	da		Hi	101/2	Low. \$ 30	Sales 3,50	Bloomington C. & C
N. CO'W'th						- 1	angko Diamon	nd B.	ra Be		0234	.021	10) Buck Mountain C
Ophir 1.4 Potosi 1.9	0 1.5	5 1 9	5 12	0 1 0	5 .9	5 10	told R ustice	UCK			0359	.031	e 10 e 3,70	Connelleville Gas Co
Sierra Nev .7	. 0	0 .4	5 .4	0 .4		0 1 1	Vork.	· · · · · · ·			041/4	.061	20 8,0.0	Excelsior B. & S.
Utab	0 .	.4											18.50	Penn. Salt
	1	1.1	1.0	1.1	1 .3	=			1	Rico		J	ane 3.	Roval Gas
	COL	ORA	Do.			4	Atlant	ic Cal	ble Co	ns. M	. Co.		\$0.2	Westmoreland C
		spen		Ju Bid,			Gutern	rise	Minin	g Co			3 2	o cressourg
Argentum Ju	nista		\$	0.69	Ask \$0.70		ron D Southe	rn Co	ns. T	reasu	ry St	ock.	1	Coartiers Val. Gas
Aspen Conta Aspen Deep	Minir	8		.11	1.12	3/2	Hele	ou (RYL			.1	
Best Friend. Bi-Metallic				.07 /2	.08				Ba	itim		-	ne 29.	La Noria Mining Co Luster Mining Co Manufacturers' Gas N Y. & Clev. G. C Pennsylvania Gas
Bushwacker Delia S.				.14	.15		Com Balt. 8	PANY.			Bı		Asked	Manufacturers' Gas
Gold Valley	Place	F		.20	.20		Balt. 8 Corrac	i Hill					\$0.3	Pennsylvania Gas
Mollie Gibso	n			5.50	6.0		Cons. (Diamo Gorge Howar	nd Tu	innel	oel			.1	5 Pailadelphia Co
17. monutes			3	5.01	38.00		Howay	MC	80	John .	\$L.	10		
Pontlac Smugg:er St. Joe & Mi U. S. Payma	neral	Farm	1	.10%	.11		Lake (Thron	ne .		φL.	10	••••	Tuna Oil

NO	Al	ND MINING	JOUR	NAI	L.		Ju	JI.Y	1, 1	189	3.
1	- '	Du	ESOTA.	June	23.	Londo	n Qi	ue tat J Buy	une 2	20. 18	93. ller.
			Par.	Bid. A	sked	Alaska Tread	wel	£ s.	d.	£ 8	
. 8	alee.	Biwabik M. Iron Co. Cincinnati Iron Co. Clark Iron Co		19.50 .45 .50	50 .50 .60	Alaska Ter Alaska Ter Almada & Tirito American Rele,	Mex	. 1 15	0 6	2 0	9 .
1.		Cosmopolitan Iron (Co	3.25					06		6
	1,239	Cosmopolitan Iron (Great Northern Min Kanawha Iron Co	100	3.25	.50	De Lamar, Idaho Elkhorn, Mont Emma, Utah		. 1 1	3	1 3	3 9
		Keystone Iron Co Lake Superior Iron	Co 25	1.50	.35	Emma, Utah		. 1	0		101/2
67.4	20,258	Lincoln Iron Co Lattle Mesaba Iron	Co100	.10	.20	Golden Feather.	Cal	13			6
	580	Mesaba Moun. Iron Minneapolis Iron Co	0100	9.50	11 00	Golden Gate, Cal Golden Leaf, Mc	ont. 8	÷ 4	0	5	5 0
		Mountain Iron Co .		i.00	50.00	N.M.			6 0	1	9
	1,455	Shaw Iron Co Security Land & Ex Washington Iron (cp. Co. 10	15.00	94 00	Holcomb Valley, Jay Hawk & Pine Mont.	Lon	e , 9	6	10	6
756	668 5,569	UNLISTE	D STOCKS.			Pine, Mont La Plata, Colo Maid of Erin, Co		. 7	6	10	9
	43,671	Adams Iron Co Agat - Copper Minin Allegheny Iron Co.	ng Co	6.00						1	
9%	43,671	Aurora Iron Co				Mesquital del Mex, P Mesquital del Mex., D Mount McClellar New Eberhardt,	Un	. 3 0	0	4 (0 0
	382 1,000	Buffalo Land & Exp	p. Co	2.00	2.50	Mesquital del	Ur	. 15		1	
	1,210 765	Canden Iron Co			.25	New Eberhardt,	Nev	lo 3		4	1 0 3
	18,438	Chandler Iron Co Chicago Iron Co Charlestoa Iron Co. Champion Iron Co.	100	.20 .25	.50 .50	New Guston. Co New Montana,	Io Mont	. 11	3	1:	2 6 5 b
	100	Champion Iron Co.	100	.15	.40	Old Lout, Colo		Z	6		3 6 7 6
2	8,421	Columbia Iron Co.				Pacific Palmarejo, Mex. Pinos Altos, Mer Poorman, Idano			9	1	1 3
17/8	18,611	Commodore Mining Comstock Iron Co	100			Poorman, Idano	X	. 8	3	1	8 9
	310 1,315	Dayton Iron Co Detroit Iron Co Elunu a Land & Iron			.04	Rajah Gold, Can	Nes	. 8	03	1	0 8 9
	1,315 20 1,030	Great western Min	ing Co.100	1.25	.25	Seven Stars, Ari	Z	. 1 5	0	1 10	0 0 8 0
	25 5,790 82,7 1	Hall Iron Co Homestead Iron Co		.01	.02	Sierra Buttes, C Pl Eur., Cal	uma	8 10	0	1	
146	82,7 1 8,877	Horton Mining Co. 1mp. Iron Mt. Mini	10			Eur., Cal South Poo man. Springdale Gold.	Idan	0 1 6	3	1 4	
34	1,346	Internat' Develop	ment	••••	22.50	United Mexican	Me.	x. 2	0		3 0
	1,092	Kakina Iron Co Kentucky Iron Co Lackawanna Iron (Yankee Girl. Co	P	aris.		June	
,	_	Lackawanna Iron (Macomber Mining	Co 100	.40	1.00	Belmez, Spain.				£1	ancs 665.00
		Macomber Mining McCaskill Mining (McKinley Iron Co		.02	.05 23,50	Belmez, Spain Golden River, C "par Laurium, Greec Lexington, Mon part Nickel, New Cal Rio Tinto, Spain "oblig."	al				130.0
		Mesaba Chief Iron Mesaba Iron Co	Co100	2.50	2.90	Laurium, Greec	e				630.0
.		Messha Mineral Co			.15	part	8		•••••		2 0
	SALES.	Minnesota Iron Co. Myrna Iron Co Nortbern Light I-o New England Iron	10	65.00		Rio Tinto, Spain				••••	372.5
-		Nortbern Light I-o New England Iron	Co100		.25		20				03 . 1
		Obio Mining Co Oneota Iron Co		8.00	10.00	Tharsis, Spain Vieille-Montage	e. 13	algiun	a		118 74 485.00
394	9,290 597	Ophir, gold Pennsylvania I. &		1.10		New Yor	-	_		-	
	17 115	Pioneer			1.00	(Late	at qu	ota iu	us.) d.	June	e 30. sked
37/6	160,802	Rouchleau Iron Co	100			Alice					\$0.4
81/6 99/4	15.5 118,360 9 847	Red Hematite Inon	Co100		.50	Alta Belcher Best & Belcher.		\$0 1	65		
-74	9,847 74J	Standard Ore Co Stowell Iron Co	25	.25	.50	Bodie			50 10		
83%	21,165 2,286	Towanda Iron Co.	100	1.50	$2.00 \\ 1.00$	Breece.	• • • • • •		15		.2
	2,286 1,500 20	Zenith Iron Co	25 SOURI.	1.50		Bulwer Caledonia, B. H			10		
	1,900	81.	Louis.	Jun	ne 28.	Carth Creek					.8
	1,219	Closing quotation		Bid. A	sked.	Chollar Chrysolite C. mstock Tunn		1.1	12		.0
95%	71,676	American & Netti	e Colo	0.50	\$1.00 .371⁄2	C. mstock Tunn Colo. Central Con. C. & Va					.0
		Bi-Metallic, Mont. Elizabeth, Mont Granite Mountain,			4.59	Crown Point			15		
inn	e 24.	Granite Mountain,	Mont	2.15	.3834	Deadwood El Cristo			•• `		
A	Asked.	Leo			4.00.	En ernrise					
6	.261/2	Small Hopes			.60	Gould & Curry. Hale & Nor Horn Silver		2.0	30		2.5
6	.121/2	MON	TANA.			Iroa Silver Kingston & Per		2.0			.4
	.08%	Prices for the we	ek ending	May 2	T :	La Crosse)3		
6	.15	Bald Butte (Mont.)	horth 77	. \$1.95	Asked.	Lead ville Little Chief			14 15		•••
4	.01	Combination(Philli	nart), Moi psb'g),Moi	nt18 nt1.00	1 25	Mexican Mono			70 10		
	.0512	Cumberland (Casti Elizabeth (Phillips	b'g), Mont.		.23 6 .4716	Ophir. Phœnix of Ari	7		15		
,	.05	Florence (Neihart). Helena & Victor	Mont	15	.20	Plymouth					1.0
2	.241/4	Bald Butte (Mont.) Benton Group (Nei Combination(Phillips) Cumberland (Casti Elizabeth (Phillips) Florence (Neihard). Heiena & Victor, J Iron Monntain(Mis Peorman (Cœurd '2 Whitlach Union & Y ellowstone	soula), Mo	nt .65	.80	Savage S.erre Nevada Union Yellow Jacket			60		
	.041/2	Whitlach Union & Yellowstone	MacIntyr	635	.45	Yellow Jacket			55 90		
		(Special report b				ASSE	SSA	IEN'I	s.		
k e	anding	PENNS	YLVANi aciphia.	A.		1.1.		D'l'no	It Da	y of	mt
7.	Sales. 3,500			Bid. A	Asked.	COMPANY.	No.	office		ale.	per sb'r
ŀ	100	Buck Mountain C	-		01.010	Alpha Car No-		Inno	1 10	IV A	.10
16	2,9.00	Connellsville Gas (20		65@70	AlphaCon., Nev Alta, Nev	43	June	7 Ju	ly 28	1 1
16	3,700 200	Excelsior B. & S	0	115@11		Baltic Con., Cal. Best & Belcher	4	June July June	II Au	ig. 4	.0
	8,0.0	Penn. Salt.			1×@104	Con. New York Con. St. Goth- ard, Cal Crocker, Nev Crown Pt., Nev Darboy, S. Dak Derbec B. Grav- ol Cal	10		1-		
	18.500	Penn. Steel Penn. Gas Coal		47	64@65	ard, Cal Crocker, Nev	14	June July	15 Ju 9 Au	ly (0. 5.0
	ne 3. . \$0.25	Roval Gas.			6@6534	Crown Pt., Nev Darboy, S. Dak	61	July July July	18 Au 25 Au	ig. 14	.2
	70		sburg.	Jun	e 28.	Derbec B. Grav-	11				
	. 3.25			Bid.	Asked.	Eclipse, Cal	4	July June	12 Ju	ly a	
	10	Coartiers Val. Gas	B	1 00	\$10 00	Mex	3	July	1 Ju	ly 10	.0
		Hidalgo Mining Co	0	1.75	1,50	Instice Nev	104 54	July July July	25 Au 11 Au	ig. 18	3 .5
	e 29.	Luster Mining Co		8.13	9.00	Lady Washing- ton. Nev.	9		1		
1	Asked.		C	29.00	30.00 51 00	Occid ntal, Nev	12	July July July	1 Ju 26 Au	ly 21	2 .0 7 .1
	\$0.31	Pennsylvania Gas Poples N. G. & P	. Co	8.00	9.00	Peer, Nev RedJacket, Nev	15	July	9 Au	Ig.	z .0 5 .0
		Dalladalmhia (la		17.25	17.50		81	July	25 1	10.1	4 .2
	.15	South Side Gas				Olimon Marth	00	1	811 1-	1.1	
	.15	Tuna Oil Wheeling Gas Co Wheeling Gas Co			19,50	Iltah Nev	33	July July July July July July July	29 Ju 8 Au	iy z	8 _0 5 .1 .0