THE DAILY RECORD-UNION.

THURSDAY.....JANUARY 22, 1880.

Signal Corps Report—January 21, 1880.

TIME.	BAR.	THR.	HUM.	WIND.	RAIN.	WEATH.
4:02 A. M.	30.25	42	91	N. W. 4	....	Clear
7 A. M.	30.23	48	91	N. W. 1	....	Clear
8:02 A. M.	30.26	50	91	N. W. 2	....	Clear
2 P. M.	30.19	56	51	N. W. 2	....	Clear
8:02 P. M.	30.19	52	66	N. E. 3	....	Clear

Max. ther., 58 degrees. Min. ther., 36 degrees.

Weather Probabilities.

WASHINGTON, January 21st—Midnight.—Indications for Central and South Pacific coast regions, clear or fair weather; for North Pacific coast regions, light rains.

ADVERTISEMENT MENTION.

Knights of the Red Cross—special assembly.
U. A. O. D.—meeting to-night.
Pavilion—walking matches.

Business Advertisements.

D. DeBernardi & Co.—Notice.
Wanted—four-foot oak wood.
Wanted—address of P. Cramer.

LOCAL INTELLIGENCE.

FUNERAL OF HAM C. HARRISON.—The funeral of Ham C. Harrison took place from the Masonic Temple yesterday afternoon, and was very largely attended. The services were held in the main hall of the Temple, consisting of the regular Masonic burial ceremonies, and were impressively conducted by Past Grand Master N. Greene Curtis and Grand Chaplain Rev. T. H. B. Anderson. The several Masonic organizations and Association of Pioneers attended in their respective bodies, and acted as escort to the remains. The pall-bearers were John Watt, W. H. Luther, Thomas Harper, F. N. Mott, —— McClay and F. H. Russell. The procession was formed as follows: Sacramento Commandery, No. 2, Knights Templar, Sir Wm. M. Petrie commander, led by the First Infantry Band; Sacramento Royal Arch Chapter, No. 3; Washington Lodge, No. 20, F. and A. M.; the hearse and pall-bearers. Next the hearse was led a black horse, covered with black, and the emblems of knighthood, with empty saddle, etc., in the usual manner, after which followed the Pioneers, mourners and citizens in carriages. The remains were buried in the Masonic plat at the City Cemetery, with the usual Masonic rites at the grave.

RARE BOOK.—Efforts have been made for years to obtain for the State Library, "Palgrave's Rise and Progress of the English Commonwealth; of the Anglo-Saxon Period," and it has now been received from London in answer to an order sent by the Librarian two years since. It has long been out of print, and was obtained with much difficulty, even in England. The work is in two volumes, of super-royal octavo size, and contains a history of the Anglo-Saxon policy and the institutions arising out of laws and usages which prevailed before the Conquest. The first volume is devoted to the Rise and Progress of the English Commonwealth, and the second volume to Proofs and Illustrations. The book is admirably written, and abounds in foot and marginal notes, connecting it with more modern customs and laws, and rendering it an exceedingly interesting and valuable work for reference and perusal. It was obtained at a cost of $40.

MERCHANDISE REPORT.—The following freight for Sacramento passed Ogden on the 18th: For W. R. Knights, 30 steel shoes and 30 steel dies; D. W. Earl, 18 steel shoes and 18 steel dies; Huntington, Hopkins & Co., 2 boxes nails, 3 boxes hatchets, 5 cases files, 3 bundles selves, 2 boxes hatchets, 3 boxes shoe blacking, 21 boxes iron rivets, 2 bales brass wire; Whittier, Fuller & Co., 1 case moldings; Hall, Luhrs & Co., 10 crates fish; T. H. Cook, 1 box drugs; A. W. & H. McEwen, 1 case note paper; W. D. Comstock, 9 boxes chairs; H. Fisher, 1 box confectionery; Adams, McNeill & Co., 5 boxes canned soups; Reavis Brothers, 4 boxes blackboards; Rev. S. B. Gregory, 1 box household goods; C. W. Rapp, 1 case crackers; E. Lyon, 1 barrel cider; Mebius & Co., 5 tierces hams.

FIGHT FOR SPOILS.—Yesterday when the San Francisco train arrived two energetic hotel runners took a fancy to the same passenger, who was making for the city and carrying a large valise, and in the end they came to grief. Each seized the handle of the baggage and claimed possession. Neither would yield, and the result was an old-fashioned fisticuff fight between the two enraged runners that lasted several minutes and caused bruised noses. The passenger, highly elated with his escape, quietly slipped aside and got into the hack of a mild-looking driver, whose shrewdness had prompted him to assume a modest mien.

POLICE COURT.—In the Police Court Thos. Sullivan was fined $1 for disturbing the peace; Henry Gutig, vagrancy, continued to January 24th; Ah Mon and Ah You, defilers of the slough, were fined $12 50 each, and sent up to interview the Sheriff's woodpile; Tim Sweeney, disturbing the peace, fined $7 50; Lee Yung, keeping an opium den, case continued to January 27th; James Stevens, for visiting an opium den, was fined $12 50; G. A. Bockhoff, disturbing the peace, discharged; Ah Sing and Ah Tong, chicken thieves, were fined $12 50 each.

SETTLED WITH THE STATE.—The following settlements with the State were yesterday made by Controller Kenfield: S. P. Carter, Treasurer of Monterey county, in the sum of $40,145 39; C. P. Tinkum, Treasurer of Mono county, in the sum of $11,413 57; C. E. Palmer, Treasurer of Alameda county, in the sum of $238,430 89; William Dampier, Treasurer of Marin county, in the sum of $40,216 84; John Theisess, Treasurer of El Dorado county, in the sum of $12,799 78; L. Snodgrass, Treasurer of Ventura county, in the sum of $15,108 10.

INCENDIARY ATTEMPT.—Tuesday afternoon an employe at Agricultural Park found secreted in a closet of the grand stand a bundle of papers wet with petroleum. The papers were of a recent date. The bundle had been carefully prepared and soaked in oil. The indications were that it had been placed there by some one who intended to fire the buildings that evening.

PROBABLY A MURDER.—Monday near Sutterville two Italians got into a difficulty, and one, named Pasqueny, was badly beaten by a hoe in the hands of Amel Gallia. The latter was arrested for battery and gave bond. Yesterday it was reported that the injured man would probably die, and that Gallia would have to be rearrested.

BONDS FILED.—The bonds of L. M. Lincoln, Justice of the Peace for Sutter township, has been filed, with George Edwards and Joseph Hull as sureties. The bond of C. N. Carrington, Constable of San Joaquin township, was also filed, with Jacob Gebert and R. P. Carrington as sureties.

OATH OF OFFICE.—The oath of office of A. L. Rhodes, as Regent of the State University, was filed in the office of the Secretary of State yesterday. Also that of Charles D. Bunker, as Commissioner of Immigration. Also of Donald McLennan, as Director of the Insane Asylum.

FREIGHT MOVEMENTS.—The following car loads of local freight arrived at Sacramento yesterday: Two of coal, 3 of granite, 2 of axles, 3 of wood. There were forwarded to the East 2 car loads of barley, 1 of merchandise, 1 of bottles, 1 of leather, 2 of rice.

ELECTION RETURNS.—The election returns for member of the Assembly for Napa county, to take the place of W. J. Maclay, deceased, was filed in the office of the Secretary of State yesterday, by which the election of C. Hartson, Republican, was certified.

COUNTY FUNDS.—The funds in the county treasury were counted Tuesday by Sheriff Drew, Auditor Gerber and Supervisor Wilson. The total amount on hand, including warrants and coupons paid since January 1st, was $288,607 33.

TRADE-MARKS.—Chauncy White, of San Francisco, yesterday filed his claim to a trade-mark for his "Celestial Pain Charm." Also, Dempster & Keys, of San Francisco, filed their claim to a trade-mark for the "Royal" brand of oysters.

ATTEMPTED BURGLARY.—Early yesterday morning some one attempted to break into the residence of James Fletcher at Washington, but was frightened away by a woman who heard him working at the window.

LIFE POLICY.—The late Ham C. Harrison had, at the time of his death, a life policy of $3,000, in the Pacific Mutual Life Insurance Company of this city.

WARRANTS ISSUED.—Warrants were yesterday issued by the State Controller for mileage to members of the Assembly, amounting to $3,355 90.

COMMISSIONED.—John E. Richards, of San Jose, was yesterday commissioned as Notary Public for Santa Clara county, vice Bralay, term expired.

PHILHARMONIC CONCERT.—A very large and representative audience assembled at the Congregational Church last evening, the occasion being the first concert of the Philharmonic Society of Sacramento for the season of 1879-80. Some sixty ladies and gentlemen took part in the musical exercises, under the directorship of J. V. Cheney, with Mrs. T. H. Berkey as accompanist. The concert opened with the chorus, "Come, Gentle Spring" (Haydn), followed by a part song, "Tell Me, Roses" (Barnby), and a quartet, "I Hail Thee, Gentle Flower" (Barnby), well sung by Miss Jennie Woods and Messrs. Crowe, Crandall and Fritz. Then came a part song, finely rendered by the Society, "A Hymn of the Home Land" (Sullivan), followed by a double quartet for men's voices, "The Soldier's Farewell," sung by Messrs. Crowe, Schrogg, McNeill, Bien, Heilbron, Fritz and Frost, which was very well rendered. Trio and chorus, "Now Cease the Conflict" (Haydn), rendered with fine expression by Mrs. Cadwalader and Messrs. Crowe and Bien, supported by the chorus of the Society. Part second opened with a piano solo, "Rhapsodie" (No. 12—Liszt), played by Mrs. Cheney with exceeding taste and fine effect. In response to an enthusiastic encore she played an "impromptu" of Liszt. Quartette, "The Sailor's Song" (Hatton), in which the parts were well sustained and the spirit of the selection equally well presented, by Miss Woods and Messrs. Crandall, McNeill and Bien. An encore was demanded and a stanza of the song repeated. Part song "O! Hush Thee, My Baby"—Sullivan, which was given with great delicacy and with fine effect by Mrs. Fitch, Mrs. Godley and Messrs. Crowe and Bien and the Society; "Blow, Bugle, Blow"—Pearce, was next sung by Mrs. Fitch in very good voice, with nicety of execution and excellent expression. An encore was responded to by repeating a stanza. Glee, "Crabbed Age and Youth"—Stevens, well rendered in all the parts, by Mrs. Godley, Miss Woods and Messrs. Crowe, Crandall, McNeill and Bien. The concert came to a most successful conclusion with the singing by the Society of "Babylon's Wave" (Psalm 137), Gounod. The audience throughout the evening manifested its satisfaction and pleasure by the most liberal applause of the efforts of the chorus and the individual members of the Society who appeared either in part songs or as soloists. Two or three of the leading voices of the Association were not heard last night, owing to the inability of those singers to take part in the necessary rehearsals.

PRE-EMPTION DECISION.—A case was recently decided by the Secretary of the Interior in reference to the title to the northwest quarter of the northwest quarter of section 34, township 12 north, range 8 east, Mount Diablo meridian, Placer county, California, in which a new principal connected with the entry of public lands is set forth. The papers in the case can show that Joseph Kelly made homestead entry for the north half of northwest quarter on November 10, 1875, and that E. D. Shirland filed declaratory statement for the west half of northwest quarter of said section December 3, 1875, alleging settlement October 1, 1874. Under an application of Kelly to commute his entry, the question as to his right as against Shirland was raised, and upon investigation it was found that Kelly had lived for many years in an adjoining township, and acquired, by pre-emption, title to other lands, and hence he was held to have acquired no rights to the land here in question. This left Shirland's claim the only one before the Government, but inasmuch as his actual settlement was shown in the proof to have been several months subsequent to that alleged in his declaration of settlement, it was held to be illegal, and that no period of residence had accrued to him under his application and settlement. There being, however, no adverse claimant at present to the land under notice, and as Shirland was now an actual settler upon the land, the Register of the Land Office in this city was instructed by the Secretary of the Interior that under the decision of the Department in the case of Stanley vs. Fairchild, in November, 1876, there being no adverse claimant of record, the filing of a declaratory statement before settlement does not invalidate a right, and that the pre-emption right of Shirland would therefore in this case be recognized, and commence from the date of the receipt of notice by the Register, E. F. Taylor, at Sacramento, of the cancellation of Kelly's entry.

FINE IMPROVEMENT.—Extensive improvements and repairs are being made to the buildings of the establishment of Huntington, Hopkins & Co., largely remodeling the entire structure and in such a manner that it will present a fine appearance when completed. A new front is to be put in on the entire eighty-feet frontage of the premises and a full second story added to the west forty feet. The whole second story front will have eight large ornamental windows, while the crest of the front will be ornamented with a heavy bracket cornice, with a semi-circular center of about twenty feet in width. A new truss-roof will be put on the west portion, covering an area of 40x160 feet. The second floor of this part of the establishment is to be lighted by three large skylights, and an opening 8x30 feet through the second floor will be constructed directly under a skylight, for lighting the first floor. Immediately under this opening there will be a large general office, while a new private office, finely furnished, is to take the same location as the present one, with two large plate glass windows in front. The whole interior of the establishment is to be remodeled and refitted with mostly new shelving, floors, etc. The entire structure is to be provided with iron shutters at all its doors and windows, and even the skylights in the roof, thereby making it absolutely fire-proof from contact with other buildings. A new awning will be constructed in front, and the whole, when completed, will present a fine architectural appearance. The cost of the improvements will be about $7,000.

RESOLUTIONS OF RESPECT.—Roseville Lodge No. 203, I. O. O. F., of which the late William H. Hackett, who was recently killed on a train near Truckee, was a member, has adopted the following resolutions: Whereas, it has been the pleasure of the Supreme Ruler of the Universe to call from us our late brother, William H. Hackett, to cross over the bridge of life and join the Supreme Lodge above; and whereas, while we bow with humble and reverent submission to the will of God in all things, we desire to express our deep sorrow for our loss; therefore be it resolved, that in the death of our late brother, Roseville Lodge has lost an honest, faithful and efficient member, civil society an honorable and worthy citizen, and his relatives a loving brother; that with the bereaved relatives we deeply, earnestly and affectionately sympathize; that as an evidence of respect for our departed brother our charter be draped in mourning, and the members of this Lodge wear the usual badge of mourning for thirty days; that this Lodge extends a vote of thanks to brothers E. Glover, P. G., and —Boyne, P. G., of Sacramento, for efficient service rendered us in burying our deceased brother; that these resolutions be entered on the records of our Lodge, and a copy of the same be furnished for publication, and a certified copy, under seal of our Lodge, be furnished the sister of our deceased brother.

REPUBLICAN APPORTIONMENT.—The following is the apportionment made of delegates to the Republican State Convention, to meet in the Assembly Chamber on April 29th, at 3 o'clock P. M.: Alameda, 18; Alpine, 1; Amador, 4; Butte, 6; Calaveras, 3; Colusa, 3; Contra Costa, 3; Del Norte, 1; El Dorado, 4; Fresno, 1; Humboldt, 5; Inyo, 1; Kern, 2; Lake, 2; Lassen, 1; Los Angeles, 7; Marin, 3; Mariposa, 2; Mendocino, 3; Merced, 2; Modoc, 2; Mono, 3; Monterey, 3; Napa, 4; Nevada, 6; Placer, 5; Plumas, 3; Sacramento, 12; San Benito, 1; San Bernardino, 2; San Diego, 3; San Francisco, 64; San Joaquin, 7; San Luis Obispo, 3; San Mateo, 3; Santa Barbara, 3; Santa Clara, 9; Santa Cruz, 3; Shasta, 2; Sierra, 3; Siskiyou, 3; Solano, 6; Sonoma, 6; Stanislaus, 2; Sutter, 3; Tehama, 2; Trinity, 2; Tulare, 3; Tuolumne, 3; Ventura, 2; Yolo, 4; Yuba, 4.

STREET RAILWAY CHANGE.—Under an arrangement between the Street Railway Company and the Board of City Trustees, that portion of the new route which was being constructed from Tenth to Eleventh, on N, and from N to O, on Eleventh street, has been abandoned and changed so that the entire distance between K and O streets, in making the new connection, will be on Tenth street, forming the southern connection at the corner of Tenth and O streets. It is understood also that a change in the charter of the City Cemetery line will be granted, permitting the line to be run on Tenth street direct, instead of on Eleventh street, as required by the present charter.

PERSONAL.—Among the passengers to arrive from the East this morning are Wm. Bretsford, of Philadelphia, and Dr. A. Ordway, of Massachusetts.

BOARD OF SUPERVISORS.—The Board of Supervisors met yesterday and adjourned without transacting business.

DIVORCED.—Judge Denson Tuesday granted a divorce to Eva Brissell from Charles T. Brissell.

A meeting was held by the Workingmen at Father Mathew Hall last evening.

MAINE.

The Fusionist Secretary of State "Holding the Fort."

CONGRATULATIONS OF BLAINE.

State Treasurer Elected by the Republican Legislature.

[SPECIAL BY TELEGRAPH TO THE RECORD-UNION.]

AUGUSTA, January 21st.—In the Republican Senate to-day, an order was passed that the Committee on Judiciary consider the question of the removal of the County Attorney, Treasurer and Commissioner of Washington county, who hold their positions by reason of certificates, and were not elected.

Samuel A. Holbrook was elected State Treasurer.

NO MORE SUPREME COURT FOR THEM.

BOSTON, January 21st.—The *Herald's* Augusta special says: The Fusion House met at Union Hall at 10 A. M.

Swan moved to reconsider the vote of yesterday, ordering the committee to submit questions to the Supreme Court, believing that it was hasty and ill-considered. He thought the House had enough of the opinions of the Supreme Court. The Court had not agreed to consider any questions, and there was no doubt it would refuse to give a decision if any were submitted. Such a step would be a complete surrender to the Republicans.

Plaisted followed in the same strain. It was evident from the tone of his speech that the Fusionists had decided to submit no questions, in accordance, it is believed, with the advice of Gould.

Bennett and Rafler denied that they took part in the business of the Republican House yesterday. They had not entered the State House since they were refused admission on Monday.

THE FUSION SECRETARY OF STATE HOLDING THE FORT.

AUGUSTA, January 21st.—The Fusionist Secretary of State Sawyer has established a State Department of the Fusionists' government in a rear office of the second floor of Allen's block, and has appointed a Chief Clerk and Deputy, and notified all persons having correspondence with the department to address P. A. Sawyer, Augusta, Me. Sawyer says: "We have returned to first principles. We have a pine table and chairs. The great seal of the State is in the possession of the only legally elected and qualified Secretary of State."

The Capital Guard and other companies have been ordered to their armories as a precautionary measure.

The Fusionist Senate voted to draw up a statement of facts and a series of questions, to be submitted to the members, who will decide whether to send them to Court or not. Gould, who will prepare the questions, desires two days' time.

CONGRATULATION.

Blaine, addressing a public meeting to-night, congratulated the people "that we once more meet as peaceful citizens of Maine, under the protection of a legal State Government chosen by the people, with the validity of its title patent to the world. We can congratulate ourselves that we carried this controversy through with our own strength, and with no thought of seeking aid from the National Government, or from any other power of any kind outside of our own limits and our own people."

TELEGRAPHIC BREVITIES.

The British Royal Academy has resolved to admit women to membership, subject to certain disabilities, including the deprivation of the right to vote at elections and attendance at the annual banquet.

At Oswego, N. Y., David Bonnell, Sylvanas Reynolds, Layfaette Ingersoll, Frederick Ingersoll, Neva Ingersoll, Frank Gibson, Lucy Ingersoll, Ida Ingersoll and Lavina Look were arrested Tuesday night while manufacturing spurious coins. Several hundred dollars in counterfeit American and Canadian coin were seized.

Senator Eugene L. Norton, of Boston, whose leg was amputated at the Massachusetts Hospital Sunday to save his life from cancer, died yesterday morning.

Patrick Gugery's knitting mill, at Cahoes, N. Y., was damaged by fire yesterday morning to the extent of $30,000; insured.

The $15,000 dollar mortgage authorized by the Directors and stockholders of the Texas Pacific Railway, and formally approved Tuesday, was executed at Philadelphia yesterday.

President Lincoln's walking stick, stolen from his box at the theater on the night of the assassination, has been recovered.

Advance sheets from the crop report of the Illinois State Board of Agriculture show that winter wheat acreage now sown in Illinois is twenty-five per cent. greater than last year, and considerably larger than the average of any preceding year.

The Claremont (N. H.) paper manufacturing mill was burned yesterday. Loss, $30,000; insured, $11,500.

The Cincinnati *Times* states that it has positive information from an authentic source that the National Democratic Convention will be held there.

The Panama Railroad has declared a dividend of four per cent., payable February 2d.

A snow-storm prevailed in and around Naples yesterday.

Fourteen gold mines have been discovered in Eastern Siberia.

Inundations have occurred in Holland and Poland.

THE WALKING MATCH.—There was a better attendance at the Pavilion last night. Susie Wiley and Rhoda Lee gave exhibition walks. Albert Pease gave an exhibition of running for two hours, making 10 miles and 13 laps. Harry Nelson and Geo. E. Dunn have drawn out after making fair records. To-night Frank Carroll will run against G. Guerrero, the latter to make 10 miles while the former makes 9. Mme. Tourtillott, Susie Wiley and Rhoda Lee will this evening give exhibition walks also. The score below shows the situation of the walkers up to one o'clock this morning:

NAMES.	10 A. M. Miles.	10 A. M. Laps.	2 P. M. Miles.	2 P. M. Laps.	10 P. M. Miles.	10 P. M. Laps.	1 A. M. Miles.	1 A. M. Laps.
1—C. Sheridan	93	4	102	14	123	9	131	6
2—C. P. Muck	105	2	111	14	131	12	131	7
3—H. McNeeve	52	5	52	5	52	5	52	5
4—Little Saxe	85	9	86	9	92	10	92	8
5—G. E. Dunn	106	10	121	1	142	11	142	3
6—French Joe	103	2	117	11	136	8	145	2
8—George Daly	57	2	67	4	82	13	88	9
9—H. Wilson	104	..	117	6	132	1	132	5
12—W. H. Scott	112	1	130	3	152	..	160	3
15—Professor Allen	86	8	100	14	125	9	135	4

METROPOLITAN THEATER.—The comedy company of Messrs. Wilson, Bassett & Wells, with John E. Owens as the star, concluded its engagement last evening, presenting the new comedy, "Dr. Clyde," which produced a very excellent effect and was highly enjoyed by a larger audience than has fallen to the fortune of the company here before.

PIANO RECITAL.—Henry Ketten, the "French Rubenstein," gives a piano recital at the Congregational Church this evening. He is regarded throughout Europe as one of the finest living pianists, and some of the critics of the old world fail to find language to express their admiration of him as an artist.

The river at 1 o'clock this morning stood at 14 feet and 5 inches.

LIVE CAT FISH.—The undersigned are ready to fill orders for live cat fish, that will average one pound each, at a very low price. Orders from the country will be promptly filled. D. DeBernardi & Co., Nos. 308 and 310 K st.*

WE acknowledge the receipt of a handsome new Price List, in book form, of 50 pages, from the Red House Trade Union. It is tastily gotten up, and speaks well for the house. Everybody should have one, and can, as they are sent free upon application. *

TRY a cup of coffee at Lansing's International. Meals, 25c. Chicken dinner every Sunday. Why pay $6 when you can board first-class for $5. One family suite (front).*

ED. LEVY, R. COHEN AND CHARLES GRAY, of the Capital City Minstrels, will take part in the concert given by the Caledonian Club.*

COME AND HEAR HIM.—Professor Deyo will render a song at the Caledonian concert and ball. *

BEWARE of all imitations in Rock & Rye Geo. W. Chesley, sole agent. *

J. F. CUTTER'S OLD BOURBON.—This celebrated Whisky is for sale by all first-class druggists and grocers. Trade mark—Star within a Shield. *

GOLD FISH.—A fine lot of gold fish to be had at D. DeBersardi & Co., Nos. 308 and 310 K street. *

THE COURTS.

SUPERIOR COURT.
DENSON, Judge.
WEDNESDAY, January 21st.

William Kirkland vs. Owen Ingersoll et al.—Continued to February 27th.

Oliver Scudder vs. J. P. Counts—Default of certain defendants entered.

Scharine vs. William Gwynn et al.—Demurrer sustained; ten days to answer.

STATE ENGINEER'S REPORT.

HISTORY OF THE OPERATIONS OF THE ENGINEER'S DEPARTMENT.

The Drainage Question—Irrigation—Area of Valleys—Discharge of Streams—Debris Question.

Yesterday State Engineer Hall presented Parts I. and II. of his official report to the Governor, as by law required, and Governor Perkins will in due time—probably to-day—transmit it to the Legislature. The report of the Engineer is made in several divisions, treating the subjects submitted to him severally. It is an exceedingly able report, evidencing profound study of the matter in hand, and as exhaustive treatment as was possible in the time afforded Mr. Hall and his assistants to gather data and make observations. It will, when given fully to the public, be found to be of the deepest interest, treating as it does upon topics of great moment. It was expected that the report, so far as filed, would have been transmitted to the Legislature yesterday, and the outline sketch of Part I., presented herewith, was prepared and placed in type with that expectation. For mechanical reasons the publication of the synopsis is made now. At an early day the full text of Mr. Hall's valuable paper will be given in these columns.

Part I. embraces a history of the operations of the Department. The objects of the work the Engineer has held in view have been:

First—Solution of the problems of drainage in the great valley of the State for the reclamation of lands, and the improvement of rivers in the future for navigation.

Second—The solution of the debris problem, so-called, that means may be suggested for the protection of agricultural lands from mining detritus, and relief of the rivers from the burden of sediment brought into them.

Third—The solution of the irrigation problems.

DRAINAGE.

He holds that to perfect the rapid drainage of a valley is to prevent the uncontrolled inundation of its plains. A perfect system is as much a work of art as is the sewerage system of a large city; that a levee in a river is but a side of a drain which forms a part of a system more complicated in its parts than any sewerage works ever can be; that all works for rapid drainge tend directly to prevent overflow of the alluvial plains, yet there is always much to be done in accomplishing this end which is not designed directly for the protection of any particular part of the lands: that while the construction of a levee may not be essential to the land immediately behind it, yet it may render thousands of acres far below productive and fertile; that facilitating rapid drainage in one part of a river may be a great relief to the land above, yet the immediate result may be an overthrow of protective works on the lower river. While the efficiency of all natural drains may be greatly enhanced, a partial treatment of them may produce disaster.

As the experienced physician who understands the constitution of his patient, and knows where to look for the seat of the disease, and how and where to apply the remedy, so the engineer, who has had the opportunity of feeling the pulse and studying the parts of a great drainage system, learns of its defects and can shape a treatment for their correction.

He maintains that, because there is lack of thorough study made of these matters, and because engineers are called on to give opinions and design works without data to guide them or proper power to inform themselves and fortify their positions—because of these things, there is failure. In his opinion works for protection from overflow in California have generally failed and millions of dollars have been expended and lost. He sets forth the fact that in selling swamp lands on condition of reclamation, the State has set up the owner of one swamp tract against the owner of another, and all efforts to harmonize and achieve general success have failed, and now tracts formerly above overflow are becoming subject to annual submersion, because, in a great measure, of the effects of works constructed for reclamation of lands sold by the State to be reclaimed.

RAPID DRAINAGE.

It is gleaned from Mr. Hall's report that the State, through her Engineer Department, has undertaken to collect the data necessary to shape the works designed to accomplish the end of rapid drainage, and to this end his study has been to place the solutions of the problems in hand upon the highest plane. He considers the nature of the floods, volume of discharge, combination of volumes, and sets out how the same have been studied, and also the natural capacity of the drainage channels and the effect of artificial constructions in increasing or augmenting their capacity. He explains how the progress of the flood wave has been measured, and the volume ascertained, and the approved methods employed to these ends.

On the debris problem he reports upon all those questions submitted to him by the law, and gives the result of his observations concerning the relation of hydraulic mining to river navigation; flow of debris into the rivers; the threatened damage to adjacent lands; and will consider plans for preventing the injury resultant upon the flow of detritus into the streams, without interfering with the working of the mines.

IRRIGATION.

Irrigation next engages his attention, and the peculiar characteristics presented by each irrigation section, by reason of topography, geological formation or climatic influence, considered, as well as the character of crops to be raised in the various sections, and the differences in soil, and the consequent necessity for different methods of applying the water, and the variations necessary as to the amount of water to be applied. He points out how much depends upon adjustment of methods and on management in distributing the waters, and the like necessity for practical knowledge concerning irrigation on the part of irrigators. He claims that from a comprehensive view of the practice, and an extended study of the details of all the circumstances surrounding irrigation in different sections, alone can a just conclusion be arrived at as to the best methods and means to be employed. He will hold that irrigation is essentially an art, but one which is much abused and often degraded to a mere process to answer selfish ends and suit personal prejudices. He knows, he says, of no instance where cultivators by irrigation have yet voluntarily brought the use of water to near its highest standard, and even in old irrigation districts it requires, he says, constant vigilance to prevent waste.

USE OF WATER.

In using water each cultivator using is opposed to his fellow. If every man could have all the water he wants and when he wants it, there would be little difficulty, for wherever this could be irrigation would not be a necessity. In his report he considers the question of water supply in different localities according to season, and the question of the settlement of differences between claimants in the distribution of water, and the attainment of that desirable end, the use of the water of the State for the greatest advantage of the whole community. Mr. Hall states unhesitatingly, and has all along held that the State has been in error in permitting general appropriation of the waters of streams, and that it has resulted in waste, in trouble and in litigation and unhealthy contests, for no checks had been provided as to appropriation or diversion, and no vigilance exercised as to proving up claims, or compelling a show of compliance with the law, while there seems to have been no recognition of what is an economical use of water. With a view to light on these points the work of the Engineer has been specially prosecuted and data gathered which will be given in full, and must prove of great interest in considering the sources of water supply, irrigable area, practical results of irrigation, etc.

FIELD OF OBSERVATIONS.

The chief fields in which observations have been made are the Sacramento and San Joaquin valleys—the former being subject to great inundations annually on lands where reclamation has been attempted, the latter being similarly afflicted, in a less degree, in the lower portions of the valley.

The two valleys joining at one outlet, their rivers having a common delta and opening to the bay, have afforded the problems of drainage to be studied, and the surveys and examinations for such purposes have been made therein. The entire length of the San Joaquin valley, from the Cosumnes river southward to the Tejon mountains, is 200 miles. In the lowest portion of the valley are many thousands of acres of land subject to inundation. Alongside of this submerged plain lie two higher ones, varying in combined width from 30 to 60 miles, and extending throughout the San Joaquin, Tulare and Kern valleys, the dividing lines between which are almost indeterminable. These high plains require watering, and have been the chief scene of irrigation.

THE VALLEYS.

The total length of the great valley comprising the Sacramento, San Joaquin, Tulare and Kern is 410 miles, and its area about 15,920 square miles, which is one-twelfth the entire area of California, and is equal to half of the State of Maine, is greater than the area of Holland and equal to the area of the valley of the river Po, in Italy. The area of the Sacramento valley from Iron canyon to Cosumnes river is about 4,769 miles. The area of the San Joaquin valley from the Tejon mountains to the Cosumnes river is about 11,150 square miles. The waters draining off from 30,470 square miles of belt and mountain country are discharged into this great valley.

The drainage area of the two rivers above their common outlet is about 46,388 miles. This is nearly equal to the combined areas of Maine, New Hampshire and Vermont, and is as great as the areas of either New York, Pennsylvania or Louisiana.

Seventeen important streams discharge into the Sacramento, San Joaquin, Tulare and Kern valleys—Sacramento river at Iron canyon, with a discharge varying from 4,000 cubic feet per second at low water to about 160,000 feet at extreme flood stages.

FURTHER DISCHARGE.

The Feather, Yuba, Bear and American combined discharge from 3,100 to 200,000 cubic feet per second. The Cosumnes, Mokelumne, Calaveras, Stanislaus, Tuolumne, Merced, Chowchilla, Fresno, San Joaquin, Kings, Kaweah and Kern rivers combined, discharge from 2,200 to 250,000 cubic feet per second. There are over 20 large creeks also, such as the Putah, Cache and Stony creeks, draining from the eastern slope of the Coast Range into the Sacramento valley. The greatest discharge of these aggregate about 150,000 cubic feet per second for short periods of time. Big Antelope, Mill, Deer, Chico, Butte and Honcut creeks enter the Sacramento valley from the east, and their greatest discharges, combined, are about 50,000 cubic feet. Little John, Bear, Mariposa creeks, Tule river, White river and Posa creek enter into the San Joaquin valley from the east, and probably discharge as high an aggregate as 60,000. Los Uvas, San Emilio, Los Gatos, Cantua, Big and Little Panoche, Saucelito, San Luis Orestimba and Del Puerta creeks descend from the slope of the Tejon and Coast Range mountains. The total discharge of this class of creeks which enter the San Joaquin valley when at a full flood stage is about 100,000 cubic feet per second. There are also twenty or thirty smaller creeks discharging into the Sacramento valley below Iron canyon, and their greatest discharge is about 50,000 cubic feet in the aggregate. Small creeks entering the San Joaquin are still more numerous, and their greatest discharge is about 60,000 cubic feet per second.

IRRIGATION FIELD.

The field in which the practice of irrigation, and the problems connected therewith, have been studied, extends much further south than the limits of the great valley. It embraces, in the vicinity of Los Angeles, two valleys through which flow the Los Angeles, San Gabriel and Santa Ana rivers. One of these valleys lies between the Coast Range and Sierra Madre Mountains, and extends from San Fernando to San Bernardino; it has an area of 970 square miles. The other is the Coast Valley, which lies between the Coast Range Mountains and the Pacific Ocean. The area of this valley is about 800 square miles. The mountain drainage area of the rivers which flow through these valleys is 1,963 square miles.

GENERAL NOTICES.

Attention, Exempts!—The regular Annual Election for officers of the Exempt Firemen's Association of Sacramento will be held SATURDAY, January 24, 1880, at Firemen's Hall, on Eighth street, between J and K, Sacramento. The officers of election are: Eli Mayo, Judge; and James McCleery and William Hadwick, inspectors. The polls will be open from 3 to 7 P. M. A member three months in arrears for dues and fines cannot vote.

Dated Sacramento, January 17, 1880.
By order. ANTON BREWER, President.
JOHN DOMINGOS, Secretary. [B. C.] ja19-6t

To Those Who Wish to Have Removed permanently superfluous Hair, Freckles, Liver-spots, Black Worms, Molds, etc., I will send a Recipe that will cure you, free of charge. This great remedy was discovered by PROF. E. HINNA, the great Chemist and East India Plant Discoverer. This great discovery is guaranteed not to injure the skin in any way whatever. Send a self-addressed envelope to V. POPPER (General Agent for the United States and Canada), 127 Montgomery street, San Francisco, Cal. d26-2plm

"Consommé, at the Forrest!" every evening from 8 to 12 n17-1m

Dr. La Mar's Seminal Pills cure all cases of Seminal Weakness, Loss of Vigor, Nocturnal Emissions, Impotency, Nervous and Physical Debility, and all that class of complaints arising from Excess, Indiscretion or Abuse. The old find in this remedy A FOUNTAIN OF YOUTH, and the young a safeguard and protection. DR. LA MAR'S SEMINAL PILLS restore the Sexual Organs, debilitated from whatever cause, to their pristine vigor. Price, $2 50 per bottle. Sent C. O. D. by express to any address, secure from observation. Address all orders to A. McBOYLE & CO., Druggists, P. O. Box 1,952, San Francisco. jy12-6m

Assessment Sale—Reese Gold and Silver Mining Company. Location of principal place of business, Sacramento city, Cal.; of works, Humboldt county, Nev.—There is delinquent upon the following described stock, on account of assessment levied on the 26th day of NOVEMBER, A. D. 1879, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Amt.
Edw. Cadwalader	307	10	$8 00
Joseph J. Agard	306	5	2 50
I. M. Hubbard	298	55	27 50
I. M. Hubbard	299	30	15 00
I. M. Hubbard	300	10	5 00
I. M. Hubbard	301	10	5 00
Mrs. G. A. Little	282	5	2 50
Bradley & Seymore	231	5	2 50
Bradley & Seymore	275	15	7 50
C. H. Bradley	188	5	2 50
J. H. Seymore	279	50	25 00
J. H. Seymore	302	70	35 00
J. H. Seymore	398	62	31 00
Mary Tuck	61	6	3 00

And in accordance with law (and an order of the Directors, made on the 26th day of NOVEMBER, A. D. 1879), so many shares of each parcel of said stock as may be necessary will be sold at public auction, at the office of said company, No. 401 J street (Quinn's Building, Room No. 3), in the city of Sacramento, Cal., on the 30th day of JANUARY, A. D. 1880, at 1 o'clock P. M. of that day, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

D. W. WELTY, Secretary.
Office, Room 3, Quinn's Building, No. 401 J street, Sacramento, Cal. ja13-4 10t

AMUSEMENTS.

PAVILION.

TO-NIGHT! TO-NIGHT!

IMMENSE ATTRACTION

BY SPECIAL REQUEST,

Miss Susie Wiley, Miss Lee

—AND—

MADAME TOURTELOTTE,

Winners of the First, Third and Fourth Prizes in the Ladies' Walking Matches, will give EXHIBITION WALKS.

ALSO,

Gus Guerrero and Frank Carrol

IN ONE HOUR RACE!

Mr. Guerrero to make 10