

SAMUEL FORTIER VISITS BITTER ROOT AND SEES CHANGES OF TEN YEARS

Eminent Irrigation Expert Discusses Development of Montana Lands Since He Lived in the State and Urges Greater Economy in the Use of the Water Supply Which Makes Montana So Great as an Agricultural State.

Professor Samuel Fortier, whom all Montana remembers as the director of the state experiment station, spent a few hours last night in Missoula. Professor Fortier is now engineer in charge of the irrigation district of the Pacific coast and his territory includes this part of Montana. He is now on his annual trip over his district and had just completed a tour of the Bitter Root when he came to Missoula yesterday afternoon. Professor Fortier is one of the leading irrigation experts in the world. Always he has interesting facts and figures. Last night he talked interestingly and instructively to a Missoulian reporter, some of his talk being reminiscent and some prophetic.

"Montana stands third in the list of irrigated states in the extent of land reclaimed," said Professor Fortier. "Our office co-operated with the bureau of the census in taking the last irrigation census and, as the figures came in and were compiled, it pleased me much to learn how high the state ranks in irrigated agriculture."

"The report of 1909 showed an area of 1,680,000 acres actually irrigated and more than half a million acres in addition, for which water was supplied, but which had not been watered. The report likewise showed a large additional acreage in partially completed enterprises. At the rate irrigation development has progressed in the past decade, it will not be many years before Montana will have 3,500,000 acres under irrigation."

"A quarter of a century ago, only a third of a million acres were irrigated. Now you must be approaching the two-million-acre mark. Soon it will be more a question of water supply. The reclamation of arid lands must some day stop for lack of water. Years ago I formed a rough estimate of the land that might be reclaimed in this state, providing the available water supply was economically used. That estimate, as I recall it, was 6,000,000 acres."

"This seems a small percentage of 32,000,000 acres—the area of the state—but even 6,000,000 acres cannot be watered if the present wasteful methods are continued. Of the total volume diverted from the streams, only a small part of the water serves a useful purpose in nourishing crops. Fully one-third leaks through earthen ditches and much of the balance is wasted in unskillful use."

"It is this large loss of water which Mr. S. T. Harding and his assistants, who represent our office in this state, are trying to lessen. Rest assured that a time will come when every gallon of water that can be taken from streams, or raised by wells, will be utilized. The greater part of the state is arid and throughout that part, ditch water is needed for the highest returns from the soil."

"The 1909 census showed that more than half the total revenue derived from crops came from irrigated lands and that these lands formed less than 2 per cent of the total area of the state."

"My duties as director of the Montana State Experiment station made me familiar more than a dozen years ago with the natural resources in land and water of this state. Since then I have had many opportunities to compare conditions here with those in other states. As a result of such knowledge and comparisons I am more than ever impressed with the wonderful resources of Montana."

"The other day I was admiring the grain fields of the Gallatin valley. Few localities between the Atlantic and Pacific oceans can raise more wheat, barley or oats to the acre. One fall we raised 87 bushels of wheat per acre on the station farm and I hesitated about publishing the results, lest our eastern friends would doubt our veracity. Then, too, a yield of 140 bushels of oats to the acre, under the ordinary farm practice and field conditions, is too common to excite wonder."

"I came from Bozeman to Butte and Anaconda and I saw in the latter cities the development of another natural resource. It was the mining and smelting of copper ore which impressed me there. The Washoe smelter at Anaconda handles every day 10,000 tons of ore, 2,400 tons of lime rock and 600 tons of coke and coal. This enormous mass of materials is dumped into hoppers from cars at the top of a hill and comes out as copper matte at the foot of the hill. The output each month in pure copper is 22,000,000 pounds. I thought of the miners who dig 200 carloads of ore out of the hills of Butte each day, of the men who tend the concentrators and furnaces and of the engineers who design such intricate machinery, and I could not but feel that, after all, irrigation is a very simple process."

"Today I have gone over the orchards of the Bitter Root valley and the sights we have seen have convinced me that irrigation is worth while. Mrs. Marcus Daly was kind enough to place one of her big cars at my disposal and we saw more of the valley in one day than we could have seen with a team in many days. I had not seen this beautiful valley for more than ten years and I had little idea of the remarkable development that has taken place in that time."

"Some 14 years ago, Mr. M. D. Kippen, superintendent of irrigation of the Bitter Root stock farm, and I climbed up to Lake Como to examine its feasibility as a storage reservoir. We navigated the lake on a raft, I think, we inspected the dam site at the outlet and measured the discharge. We then came down to the creek of the Bitter Root river and figured a siphon to carry the stored water across the river to the east bench. "We were both impressed with the feasibility of the scheme at that time and it was extremely interesting to me to return to the same place today and find that our dream of years ago has become a reality. The surface of the former lake has been raised 50 feet; the small lake now covers 800 acres; a steel siphon conveys the water across the river and elevates it far up on the other side. A main canal, about 75 miles long, is today conveying over 10,000 inches of water to the fertile soil of the bench lands of Florence and Stevensville and between 29,000 and 25,000 acres are actually irrigated."

"We were also up on University Heights and saw 1,900 acres of young orchards, occupying the place where pines and firs stood when I last saw the Bitter Root valley. I have often admired the orange groves under the Gage canal at Riverside, Cal., but considering the setting produced by the nearness of the Bitter Root range, I doubt if it can excel the view which one gets from University Heights."

Professor Fortier left last night on his westward journey.

"I did you intend to suppress all you have told of McDermott and you the \$25?"

"Absolutely not," said McMichael. "I intended to do just what I am doing, tell the unvarnished truth."

TO PROBE CONDITIONS.

Flat River, Mo., Aug. 16.—The state board of mediation and arbitration, after failing today in an effort to adjust the differences between the striking lead miners of St. Francois county and the mine owners, announced tonight that it would make a thorough investigation of labor conditions in the lead belt. The inquiry will be begun Monday at Farmington, Mo.

A WISE PUP.

San Francisco, Aug. 16.—The excited antics of her pet fox terrier as it whined and snapped at her skirts frightened Mrs. Annie Keller until she realized that the animal was trying to make her follow it. The dog led her to a barn, where she found that her husband, Joseph Keller, had hanged himself.

AVIATOR T. T. MARONEY IN FALL AT KELLOGG

Wallace, Idaho, Aug. 16.—T. T. Maroney, one of the aviators engaged to fly at the annual miners' picnic at Kellogg today, fell 20 feet in his first attempt and wrecked his machine. Although badly bruised, he is not seriously hurt.

Maroney flew for two miles and never got above 20 or 40 feet off the ground. He had engine trouble from the start, but kept his head when he saw he was going to fall.

BRIDE A SUICIDE.

Chicago, Aug. 16.—Mrs. Mary Grujok, 38 years old, a bride of six days, who said to have been deserted three days after her marriage, committed suicide by hanging in her bedroom today.

"I am under a verbal agreement—not one in writing," began McMichael. "I am out of a job and must make a living. So I agreed to write a story on 20 years as a house employe, but it was expressly understood I was not to write it until after this investigation."

"And you receive \$75 a week?"

Mears Makes Good



This Picture Was Taken Just as John Henry Mears Reached St. Paul on the Northern Pacific's North Coast Limited Train.

Around the world in 35 days is the new record established by Mr. John Henry Mears, emissary of the New York Evening Sun, who arrived in New York homebound bound, on Wednesday evening, August 8, at 10 o'clock p. m.

He left New York at 12:43 a. m. July 2, taking the Mauretania and traveling by way of London, St. Petersburg, Mukden, Fusan and Yokohama. His arrival at Victoria, B. C., on the Empress of Russia was delayed by a heavy fog on the last day of the trip. He was met at Victoria by a private yacht sent over by the Seattle chamber of commerce and upon arrival at Seattle, he was taken across the harbor in an aeroplane, catching the Northern Pacific's North Coast Limited which was held one hour and thirty-seven minutes for him.

Leaving Seattle on that train Saturday evening, August 2, he arrived in St. Paul Tuesday morning, August 5, 7:55 a. m. on time. He continued on the North Coast Limited via the Chicago and Northwestern to Chicago, arriving there on time. Leaving Chicago at 11:30 p. m. the same day via Lake Shore and New York Central lines, he arrived at New York Wednesday evening shortly after 10 o'clock as per original schedule. The actual elapsed time of the trip was 35 days, 21 hours and 35 minutes, thereby beating by approximately four days the best previous schedule which was made five years ago by Andre Jaeger-Schmidt.

IN THE CHURCHES

Methodist.
Services at the First Methodist Episcopal church, corner Washington and Main streets, as follows:
Sunday morning—Sunday school at 10 o'clock; morning worship at 11 o'clock, at which time Rev. C. A. Bedford will occupy the pulpit; anthem, "Wilt Lift Up Mine Eyes;" G. E. Jones, choir; solo, "Selected;" G. A. McAllister.
Evening—Epworth league, 7 o'clock; evening worship, 8 o'clock; Rev. Solon Johnson will occupy the pulpit; anthem, "Thou Art the Way;" Jules De Vere, choir; solo, "Selected;" Mrs. Edward Hoverson.

Swedish Lutheran.
The usual sacred pipe organ recital at 7:45 o'clock, just previous to the evening service, at which time Mrs. E. W. Shotts will play several selections.
Prayer meeting Wednesday evening at 8 o'clock.
The public is cordially invited to attend these services.

Evangelical Lutheran.
German-English, corner of Hazel and South Sixth streets; Gustav Mertz, pastor; residence, 234 Edith street; Bell phone 1078.—Worship at 10 a. m. in German; worship at 11 a. m. in the English language; Sunday school at 12:10 o'clock noon.

Christian Science.
Corner Pine and Patten streets—Services Sunday at 11 a. m.; subject of lesson sermon, "Soul;" Sunday school at 10 a. m. Festival meeting Wednesday at 8 p. m. Reading room open from 2 until 4 p. m., except Sundays and holidays. Public cordially invited to attend services and visit the reading room.

Congregational.
Elmer D. Gallagher, minister; residence, 605 South Second Street West—Public worship Sunday, August 17, at 10:45 a. m. Theme for the sermon, "Good Speed." This service is the first after the summer vacation, and also the beginning of the new pastorate. Let all our people now in the city endeavor to be present. The evening worship will be resumed in September.

Swedish Congregational.
Church, West Spruce street, C. R. A. Blomberg, pastor; residence, 520 West Spruce street, Ind. phone 1786—Sunday school at 10 a. m.; morning service at 11 a. m.; young people's meeting at 8:30 p. m.; evening service at 8 o'clock. Prayer meeting Wednesday evening at 8 o'clock. All Scandinavians of Missoula and vicinity are cordially welcomed to worship with us at all services.

Norwegian Lutheran.
Services at the Norwegian Lutheran church will be held at Bonner Sunday morning at 11 o'clock. Evening services will be held in Missoula at the German Lutheran church at the corner of...

Diarrhoea Prevented
"An ounce of Prevention is worth a pound of cure."
An overheated condition and a glass of ice water, sudden exposure to dampness or cold, eating unripe fruit or drinking impure water may turn a well-regulated stomach into such a condition as to produce that most distressing and perhaps most common of all summer complaints—Diarrhoea.

Avoid this pitfall, as well as ptomaine poisoning, cholera, cramps, stomach ache and all the other stomach and bowel disorders by taking a tablespoonful of Duffy's Pure Malt Whiskey in water occasionally during the day, especially before eating.
If any of these complaints have already taken hold
Duffy's Pure Malt Whiskey is a sure remedy and will bring quick relief.
Best druggists, grocers and dealers.
Be sure you get the genuine; substitutes and imitations are injurious. Medical booklet, also doctor's advice sent free to anyone who writes.
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IN REVOLVER DUEL DETECTIVE KILLS A MINER

BALDWIN-FELZ AGENCY OPERATIVE SHOTS TO DEATH FORMER ORGANIZER.

Trinidad, Colo., Aug. 16.—Gerald Lippatt, a member of the United Mineworkers of America and former organizer of America and former was shot and almost instantly killed here tonight by G. W. Belcher, operative for the Baldwin-Felz Detective Agency, in a pistol duel on the street. Just as Lippatt sank to the street he fired at Belcher and wounded him through the left leg. Walter Bek, another Baldwin-Felz operative, was implicated in the fight and has been arrested.

The shooting took place within a few minutes after Lippatt, with other miners, had left a train in which they had ridden to attend the annual convention of the Colorado State Federation of Labor, at which it is to be decided whether the miners of Colorado, New Mexico and Utah will call a strike to enforce recognition of their union. The convention is to open Monday.

Serious Situation.
State Labor Commissioner Edwin V. Drake, acting as special emissary for Governor Elias M. Ammons, arrived in Trinidad on the same train with Lippatt in an endeavor to avert the threatened strike. He declared that the killing of Lippatt had precipitated a serious situation.

Hundreds of miners are now in Trinidad and tonight they gathered in groups about the business section of the city, discussing the killing of one of their number by a man who they declare had been sent to Trinidad to watch the officials and organizers of the miners' union who propose to enforce recognition of their organization. No further violence at this time is expected, however.

Baptist.
The regular services of the Baptist church will be held at the usual hour. Rev. Thomas Howland will preach both morning and evening. Miss Edna Chadwick will sing a solo at the morning service.

Swedish Lutheran.
The usual sacred pipe organ recital at 7:45 o'clock, just previous to the evening service, at which time Mrs. E. W. Shotts will play several selections.
Prayer meeting Wednesday evening at 8 o'clock.
The public is cordially invited to attend these services.

Presbyterian.
First Presbyterian church, corner of Pine and Stevens streets; Rev. J. N. Maclean, D. D., minister; residence, 320 Stevens street. Public worship at 11 a. m., conducted by the pastor. There will be no evening services. Sunday school at 10 a. m. and Y. P. S. C. E. at 7 o'clock p. m. Strangers and visitors will find a welcome at all these services.

Important to Dyspeptics.
Bear in mind that Chamberlain's Tablets improve the appetite, strengthen the digestion and regulate the liver and bowels. Just what you need. For sale by all druggists.—Adv.

"Hoop-la" and Be Graceful



MILKA ANNA PAVLOVA IN "HOOP-LA GAME."

Milka Anna Pavlova, the very famous Russian dancer, says that hoop-la is the best exercise she knows for women who want to attain gracefulness and ease of carriage. Now nearing the end of her season in London, where she has made the game popular with aristocracy and nobility, Pavlova says she will bring the hoop-la craze to America in October. In London Pavlova has given hoop-la parties to the titled folk on the lawn of historic Ivy house. Hoop-la, which can be played by any number of people, consists in tossing and catching small hoops with sticks.

FISH AND BANANAS FEATURE DEBATE ON TARIFF

SENATE, AFTER WEEKS OF EFFORTS, NEARLY COMPLETES AGRICULTURAL SCHEDULE.

Washington, Aug. 16.—The senate today almost completed consideration of the agricultural schedule of the tariff bill, disposing of a number of important rates protested against by the republicans.

No amendments were adopted. Democratic leaders expect to complete the agricultural schedule Monday and express confidence that none of its provisions will be changed, free cattle, free wheat and their products having already been approved. The sugar schedule, upon which the greatest fight of the tariff controversy will be waged, will be reached next, and majority leaders are planning to hold middle senate sessions, beginning the middle of the coming week.

The principal debate today on the agricultural schedule centered about fish and bananas. Senator Lodge of Massachusetts declared the great reductions proposed on fish products, with fresh fish on the free list, would give Canadian fishermen control of the great New England markets. No change, however, was made in the rates.

Senators Burton, Weeks and Sherman argued against the proposed duty of 1-10 of 1 cent a pound on bananas. Senator Weeks of Massachusetts said the consumer eventually would pay the duty of approximately \$2,250,000 a year on bananas.

The vote to sustain the proposed banana tax was 31 to 28. Senator Thornton and Senator Ransdell of Louisiana voting with the republicans. Senator Norris of Nebraska protested against the proposed duty of 2 cents per pound on dandelion root and other substitutes for coffee, maintaining that they should go on the free list. He argued that such a rate was "a direct protection to the coffee trust."

WORLD NAVIES URGED TO ATTEND BIG FAIR

Newport, R. I., Aug. 16.—An invitation to all the navies of the world to meet at Hampton Roads, in January, 1914, and pass through the Panama canal to the exposition at San Francisco, accompanied by a fleet from the United States navy, will be issued shortly by President Wilson. Secretary of the Navy Daniels, who has been inspecting the training station here, made this announcement tonight. The invitation will be in the form of a proclamation.

MURDEROUS GREEK ESCAPES.

Kansas City, Aug. 16.—George Paulus, a Greek, arrested at Abilene, Kan., charged with the murder of two persons in his native country, jumped from a passenger train near Clark, Mo., today and escaped, according to information received at the local government immigration office. He was being taken east to be deported.

WOMEN SLOW.

Chicago, Aug. 16.—Women as jurors are more deliberate than men, County Judge Owens announced today, in explaining a change in the procedure of hearing insanity cases. For two successive weeks Judge Owens has named women on a jury to consider the cases of women and children and several complaints that the women have been too slow have reached him. The men jurors who decided all other cases, asserted they were kept waiting too long.

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Stevens-Duryea, 7-Passenger Touring Car Making Daily Trips.
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Meets 41 West-bound, and 42 East-bound.
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Bateman Transportation Co. Stage and Auto Service between Ravalli and Polson
Connects at Ravalli with Northern Pacific trains east and west. Connects at Polson with the Klondyke steamer. Ravalli, Montana.

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Daily trips across the reservation. First-class service. Careful drivers

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Gives Prompt and Positive Relief in every case. Sold by druggists. Price \$1.00. Trial Package by Mail 50c. WILLIAMS MFG. CO., Props. Cleveland, Ohio
For sale by Geo. Freisheimer, Drug.

JUST IN Most Up-to-Date

LADIES' VANITY PURSES

From 65c to \$2.50
Worth easily double. Get a ladies' House Dress before they are all gone, at 95c.

Ladies' Coats

See window for a swell tailor made Coat at \$9.50.

Bedsheets

Extra large sheet, A 1 quality, for Monday only, 75c.
Remnants in dress goods at half price.

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For Monday at Schlossberg's

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MEMORY PROVES TO BE DEFECTIVE

(Continued From Page One)

Horning or Heidenheuer about the testimony he was to give the committee.

Although Bernstein swore that to the best of his recollection the activities of the three did not begin in 1911, Steine, another pawnbroker, thought he had been approached in that year. He had no idea, he said, of what money was raised or how it was spent. Horning and Heidenheuer, the other brokers, are under subpoena and will testify next week.

McMichael testified that he was now being paid a weekly salary of \$75 by the New York World, which printed the original Mulhall charges. McMichael explained he was being paid under an agreement to write a story about "Twenty Years a House Employe" after the lobby investigation was over. Attorney J. E. Smith, representing Representative J. T. McDermott, told the committee that he would bring Allan A. Irvine, a government supply contractor of this city, to testify that McMichael had informed Irvine he would receive a weekly salary until he had corroborated Mulhall's testimony.

"I have a contract to begin after this hearing, but I don't think you have any right to inquire into my private business," retorted McMichael when pressed for details.

The committee finally requested a fuller answer.

"I am under a verbal agreement—not one in writing," began McMichael. "I am out of a job and must make a living. So I agreed to write a story on 20 years as a house employe, but it was expressly understood I was not to write it until after this investigation."

"And you receive \$75 a week?"

"Yes, sir."

"Didn't you tell Irvine that if Representative McDermott would pay you \$25 he owed you that you would not say a word to hurt him?" demanded Smith.