P. M., moderate; wind northwest;

for Cape Nome. Southampton, June 1.—Salled-Auguste Victoris, from Hamburg for New York.

Moville, June 8 -- Sallad-Furnessia, from

Seattle, June 8. - Arrived-Japanese steamer Idamu Maru, from Yokohama. Arrived June 7-Steamer Ruth, from Skag-

Nanaimo - Satled June 7-Hawallan teamer Aztec, for Port Los Angeles. Kiel-Sailed May, 27-Barkentine Mary

Klei-Salled May, 27-Barkentine Mary Winkleman, for Port Townsend. Yokohama-Arrived June 1-Steamer Dainyvostock, from Tacoma, Eureks, June 8-Arrived-Steamer W. H. Kruger, from Tillamook. Hamburg, June 8.-Arrived-Phoenica, from New York via Cherbourg. Havre, June 8.-Arrived-La Touraine, from New York

Hoqulum, Wash., June 6. - Arrived-Schoener John F. Miller, from San Fran-

New York, June &-Arrived-Columbia.

from Hamburg. Queenstown, June 8.-Arrived-Lucania, from New York for Liverpool, and pro-

AT THE HOTELS.

THE PORTLAND.

New York.

## RESULTS OF OBSERVATION Isr experiments conducted elsewhere, as well as to ascertain the relative cost per pound of the various nutrients contained THE SOUTH AFRICAN FLEET in the bread.

AGRICULTURAL EXPERIMENT STA-TION ISSUES BULLETIN.

Sorghum Raising-Composition of Strawberries-Cost and Composition of Bread.

SALEM, June 5.- The Oregon Agricultural Experiment Station has issued a bulturn resperiment station has bened a pul-letin, giving the results of various chemi-cal experiments and investigations. The bulletin is compiled by Professor G. W. Shaw, chemist. The first subject treated is "Sorghum for Syrup." On this sub-tool, the record way.

is "Sorgnum for Syrup." On this sub-ject, the report ways: "On the completion of the work with sugar beets (1998) plans were laid to in-vestigate the possibilities of growing sorshum for syrup-making in certain parts of the state. The work was begun in the Spring of 1958, during which season a quan-tily of each was distributed in the shake tity of seed was distributed in the tity of seed was distributed in the state, especiality in Jackson and Umatilia Coun-ties, where it was thought the conditions would be most suitable for the crop. In each of these counties sorghum had been grown on a very limited scale for a num-ber of years, and a crude syrup had been made for home use. No attempt had ever been made to acceptate the part and een made to ascertain the real quality been made to ascertain the real quality of the cane, as compared with that pro-duced claswhere. The seed employed in these experiments consisted of Minnesota Early Amber cane, purchased of Mr. Seth Kinny, Morristowa, Minn., and the follow-ing varieties of pedigreed Southern-grown seed furnished by the United States De-partment of Agriculture: Early Amber, Brown Colman and Folger's Early. None of the Southern-grown varieties matured brown Comman and Foiger's Early. None of the Southern-grown varieties matured, but the Minnesota seed seemed quite well adapted to the Oregon conditions. The season was altogether unfavorable for the experiment, and for one reason and into the experiment, and for one reason and another of the 75 to whom seed was sent 51 falled to forward samples. In most of these cases the cane was killed by a quite general frost, which occurred on or about October 2 in both Eastern and Southern Oregon, which is quite an unusual occur-rence so early in the season, especially in Jackson County."

The results of the analyses of the canes cented in a lengthy table, and the

are presented in a lengthy table, and the bulletin continues: "The results show that a fair quality of sorghum for the purpose of syrup man-ufacture can be produced in Jackson County and probably in certain parts of Umatilla County. Experience of growers in the former shows that in ordinary sea-sons the early varieties of sorghum will well mature, but in the latter locality there will be much uncertainty as to the maturing of the crop. Under the present condition it is impossible to estimate the cost of the crop and the profit realized from it, but the most reliable estimates show that the cost of the syrup, ready for market, does not exceed 30 cents per rallon. Mr. E. H. Davis, of Table Rock, Jackson County, reports that from a lit-tic less than one-balf an acre he ob-tained 25 gallons of syrup." The bulletin then discusses the chemical composition of strawberries. It is stated that there has been sublished but one

composition of strawberries. It is stated that there has been published but one bulletin treating of the composition of strawberries, and that in the annual reports of the stations there is but one reference to the subject. The results of numerous experiments are given, and, for the sake of comparison, the following averages obtained by other workers are given, together with the average of alt

Konig.	Stone.	Webber.	
Europe,		Ohio.	Oreg.
Water	90.52		88.57
Dry matter 12.34	9,48		11.43
Protein		marga.	-56
Total sugar 6.28	0,35	4.50	0,89
Fiber 2.22	1,21	3100	140
Piber	1.00		
Manal and secondary and	-02		1.44

Discussing the results of the experiments, the bulletin says:

ments, the bulletin says: "From this it appears that the European strawberry is probably ewceter than the American berry, yet this would be gov-erned much by the variety used in ana-yais, but they do not appear so rich in protein and probably carry more fiber. Comparing the mean of the averages on the American berline with the Turk Comparing the mean of the averages of the American analyses with the Euro-pean as to the relation of acid to sugar, it appears that in the latter the ratio appears as 1 to 7, while in the former it stands as 1 to 5. If this be compared with the ratio for wild strawberries, as stated, by Fresenius, 1 to 2, it is seen there has been quite an improvement brought about by selection and cultivation.

"The samples were collected from differ-ent parts of the state, including both Eastern and Western Oregon. In each case inquiry was made as to the claimed weight of the loaf, but in many instances no definite weight was claimed. In most cases the actual weight, as found in the laboratory, approximated very closely with the claimed weight. In a few in-stances the actual weight was found a little greater than the claimed weight. "The samples represented the bread as actually sold to the consumer, as in no in-stance did the merchant know for what purpose the bread was purchased. The moisture determination was made as soon as the bread reached the laboratory, and much care was taken to protect the loaves from loss of moisture after purchasing. LAST VESSEL TO SAIL FROM PORT.

The British ship County of Merioneth arrived out at Cape Town Thursday after a fairiy good passage of % days from this port. The County of Merioneth was the last vessel of the present season's fleet to leave Portiand, and, with the exception of the Blythswood, which put into Valparateo disabled, all of the fleet her sended out is the season of the season from loss of moleture after purchasing In all, 25 samples were examined. The samples, after being air-dried, were an-alyzed according to official methods. The results obtained are shown in the following table;

		Wei	Cost	Cos	Com	positi	ion a	f Fre	sh Bi	read
PLACE OF PURCHASE.	Trade Name.	weight of loaf, pounds	cents	nts	Water	Dry matter	Protein	Fat	Carbohy- drates	Ash
Salem		11:2001155155155155555555555555555555555	14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		制。因其60%6%数%2%6%2%6%2%6%2%2%2%2%2%2%2%2%2%2%2%2		78777868888 8845888		15.00 10	.80 1191113 1191119 11

The carbohydrates in the case of the business from this direction is over for the season. Considering that this is a com-bakeries (given as 55.75 and 54.25) are not included in the average.

Discussion of Results. variations in the compositi

Water .....

Protein

Total ...

lows,

FLOUR.

"It is interesting also to note the differ-

rica, carrying 362,394 bushels of wheat and 66,901 barrels of flour. The wheat ship-ments were as follows: bread are chiefly due to two causes, (I) the variation in the composition of the four used, which may cause changes in two di-rections, (a) in the amount of water that may be absorbed by the bread, and (b) 
 Bailed.
 Vessel.
 Bus.
 Value.

 July 1.Gienessin
 74.665
 \$47.100

 Oct. 7.Macduff
 25.133
 16.500

 Nov.14 Blythewood
 86.635
 50.000

 Dec. 15 Verajean
 114.441
 68,675

 Mar. 3 County of Meriometh.
 69,529
 33,300
 in the proportion of protein, faits and car-bohydrates; (2), the different methods used by bakers in making the oread. In some cases only flour, yeast and sait are used, while in others, milk, butter, sugar and lard, either alone or in combination added. The average composition of the bread as purchased and found by analysis is stated Total ....

The flour shipments were as follows:

LAND ARRIVED OUT THURSDAY.

ieven Cargoes Dispatched This Sea

son-Well-Known Clippers Sold-

More Fast Passages.

Sailed. July 1 Gienessin Oct. 7 Macduff Oct. 18 Powys Castle ... Nov. 5 Lorton Total ..... The Glenessin, Macduff and Blyths wood went to Algoa Bay, the Verajean and County of Merioneth to Cape Town, the Lorton to Durban, and the Powys Castle to Port Natal.

## City of Hankow and City of Delhi

The British ship City of Hankow, of the insteat and finest of the old-time clippers which formerly made frequent trips to Portland, was sold a few weeks trips to Portianc, was sold new vector ago to partices in Sydney for the compara-tively small sum of \$15,000. The City of Hankow is a composite yearsel, built before the days of tramp steamers to carry tea from the Orient to England. In this trade she made some ratiling passages, and years later she made the run from the Columbia to Europe in \$2 days, which the Columbia to Europe in 32 days, which is very close to the record. On another

Mo 17 Gluten. Protein Aleur met Ratio Dry. Dry. High

Bbls. Value, 7,150 \$15,305 11,556 30,625 23,735 65,000 24,400 64,600 Vessel. 66,901 \$179,590

Have New Owners.

protein than to those analyzed from weet. the since it tends to confirm the results that have been obtained in analyzis of flour from these regions by Mr. E. J. Lea, of the this department. Mr. Lea's results, which 35 heve not yet been published, show as foi-lows is very close to the record. On another voyage she salled from the Columbia to the equator in the Atlantic in 55 days. The vessel is upwards of 40 years old, and this accounts for the low price at which she sold, ...er

season. Considering that this is a com-paratively new field for trade, the re-sults are quite satisfactory. Since July 1, 1880, seven cargoes of wheat and flour have cleared from Portland for South Af

THE PORTLAND. Wm. M. Bonsor, San Fri Bohn O. Elianchard, do H. O. Peterson, Skan Fri War, Alaska way, Alaska bares I. Rounds, Ind Dawe Abrahama, N.Y. Sames I. Rounds, Ind Dawe Abrahama, N.Y. Bam, Kohlberg, Heinard J. E. Ransom, Chicago H. E. Heicock, Phila Louis G. Beers, Conn W. E. Travita & W. Phila Louis G. Beers, Conn Mars P. Hildelphia Miss Minnie C. Durn-ham, Philadelphia Miss Minnie C. Durn-ham, Philadelphia Miss Mannie Y. Durn-ham, Philadelphia Miss Manne, San Pra fer 362 394 3215.576

m New York.

cisco, for Hoquiam,

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caeded.

Columbia River Scenery. Regulator Line steamers, from Oak-street dock, daily, except Sundays. The Dalles, Hood River, Casende Locks, and return. Call on, or 'fone Agent for further information.

THE PERKINS.

LEADERS AT STANFORD weather cloudy. Nagasaki-Salled June 2-German ship Rigel, for Portland. Rigel, for Portland. Cape Town-Arrived June 7-British ship County of Merioneth, from Portland. Falmouth, June & Arrived-British ship Colony, from Portland; German ship Ne-reus, from Portland. San Francisco, June & Salled-Steamer Manauense, for Vancouver; brig Geneva, for Cane Nome THREE OREGON BOYS IN THE FA-MOUS CENTURY CLASS.

Mrs. Stanford Goes to Europe in Search of Sculptors-Work Progreases on Buildings.

Via Cherbourg. Queenstown, June & Salled-New Eng-land, from Liverpool for Boston. London, June & Salled-Manominee, for STANFORD UNIVERSITY, June 5. SPANFORD UNIVERSITT. June 5.— (Special correspondence.)—The large and strong century class, the favorite of fac-ulty and student body, has passed through the great memorial arch of this young glant institution into the world, leaving a vacancy in many lines of student activ-ity which it will be hard to fill. The commencement this year, way the Glasgow for New York. Viadivostock-Arrived June 2-Leander, from Tacoma. Hamburg, June 8.-Arrived-Fuerst Bia-narck, from New York, via Plymouth and marck, from New York, via Plymouth and Cherbourg; Volumnia, from San Francis-

ity which it will be hard to fill. The commencement this year was the closing ceremony of a "Senior week" which eclipsed the efforts of any previ-ous fourth-year class. The farewell con-cert by the Giee and Mandolin Clubs; the dedication of the monument in honor of Stanford volunteers; the various recep-tions in honor of the seniors given by Mrs. Stanford and President Jordan; the faculty-senior baseball match, when the big president plays first base; the senior farce, baccalaureste sermon; class-day exercises of many features; commencemuch information of practical use to civilized man. ment ball; alumni day ceremonies and the beautiful promenade concert, when the vast Spanish quadrangle is transformed or, attracted visitors and friends of the into a veritable illuminated court of hon-150 graduates from far-away places. Particular interest centers in this com-mencement, as the best-known and popmencement, as the best-known and pop-ular men of the class and of the college, those who will be most sorely missed, hall from Oregon-the state which sends more men who become powers in Stan-ford College life than any other. The three seniors who have brought the state's name so prominently before the students here are Frank Branch Riley, of Port-land when mater subject is senoming land, whose major subject is economics and sociology: Chester Griffin Murphy, of Salem, whose specialty was law, and Lloyd D. Wickersham, of Portland, who was graduated in electrical engineer-

Riley served his college in a variety of ways, and he will be greatly missed by all classes. As "the Glee Club star" he won wide popularity all along the Pa-cific Coast, from British Columbia to Mexico, by his clever monologue and solo accused to be and solver monologue and solo-list work on the 'Varsity Glee Club. Al-together, he appeared in over 35 concerts for his college, given in every important town and city. During his senior year he was leader and president of the club, conducting it on one occasion, through four weeks in the South, on the most successful tour in its history. He was uccessful tour in its history. He was also the president of Sword and Sandals -the college dramatic and bohemlan so-clety-and was the leading figure in the clety-and was the leading figure in the various college theatricals. He was a reg-ular contributor to the university publica-tions and served as associate editor of the college annual-the Stanford Quad-and of the Stanford Sequela and the Daily Palo Alto. He was a prominent society and Greek-letter fraternity man, being a member of the Theta Phi Exclion being a member of the Theta Phi Epsilor (sophomore), Sigma Sigma (junior) secret societies, and the National fraternities of Zeta Psi and Phi Delta Phi (legal).

Murphy, the athletic hero of the college, was a prominent figure throughout his course by his superior work on the foot-ball, baseball and track teams. His generalship and all-around ability as a quar ter-back in his first three great intercol-legista games won him the high honor of captain in his senior year. His repu-tation was that of one of the cleverest and most brillant players who have apball he was equally prominent, being a feature in every game in his three last years. He won his track 'varsity "S" in his freshman year. Murphy was one of the leaders in the social and fraternity life of the college, being a member of of the class societies and of the Zeta Psi and Phi Delta Phi.

and Phi Delta Phi. Wickersham was the president of the century class of 150. This position of honor and responsibility he filled well, and to him largely is due the great success of this year's commencement week, which he conducted with skill and dignity. He was an able debater, and served his college as president Alpha Debating So-clety, member of Intersociety and Inter-collegiate Debating Committees. He was a member of the student body executive committee, secretary of the Associated Engineers, a director of the Encina Club, and held various other positions. The era of new buildings is well be-

netion across maxima the upon the earth in a direction perpendicular to the plane of the surth's orbit, just as if the sun-being a magnet, throws out a field of force to the surface of the earth which. by its variation depending upon the in-ternal workings of the sam, produces the changes just enumerated in the earth's atmosphere and in its magnetic field, also throughout the planetary system, being, of course, strongest near the sun. The of course, alrongest near the sum in the bellef is gradually growing among scien-tists that the earth, the mun, and the planets are all magnetic bodies, and have these bonds of connection between them in addition to the Newtonian gravitation. This is a most fascinating field of re-search, and, though full of difficulties, yet attracts the attention of many who are convinced that one of the most press-ing duties of the hour is to clear up the

ing duties of the hour is to clear up the problems connected with the transmission of energy from the sun to the earth in other forms than the ordinary or sun-light radiation. It is entirely probable that the secular variations of the weather

PERSONAL MENTION.

H. Ekstrom, of Astoria, is registered at the Portland. Bela Kadish, of Baker City, is regis-tered at the Portland.

Dr. E. V. Hoover, of Roceburg, is reg-stered at the Imperial.

Paul Strain and wife, of Spokane, are registered at the Perkins. Robert T. Platt has returned from a six He says prosperity has struck Birming-

weeks' absence in the East. Hugh Glenn, of The Dalles, registered

at the St. Charles yesterday. T. B. Bidwell and wife, of Astoria, are registered at the St. Charles.

Dr. George A. Eastabrook, of Oceanside, Wash., is at the St. Charles. L. H. Buddemer has gone to Milwaukee, Wis., to be absent two weeks.

A. B. Leckenby, Government graceolo-gist, is registered at the Imperial. -Mrs. S. G. Simpson and Miss Simpson, of Scattle, are guests of the Portland. John Foshay, a Linn County ploneer, is registered at the Perkins, from Albany. J. L. Warner, a mining engineer of Alamo, Or., is registered at the Imper'al.

E. Stanton Isaacs, a prominent flouring mill man of Walla Walla, is at the Impertal. George A. Hall, a well-known citizen of

St. Helens, is registered at the St. Charles. O. B. Rosenbaum and wife, of Van

couver Barracks, are registered at the Portland. H. R. Newbauer, a San Francisc chant, is at the Imperial, accompanied by

his family. C. E. Loomis, special agent of the United States land office, is registered at the Persins, from Oregon City. J. F. Davies, of the St. Charles Hotel, is spending a few days at the Wind River Springs, Wasco County, for his is sper River health.

H. V. Gates, of Hillsboro, who is interested in the water supply and electric lighting of several Oregon towns, is at

District Attorney T. J. Cleeton, of the Fifth Judicial district, was in the city yesterday and returned to his home at St. Helens on the evening train.

Senator E. W. Haines, Forest Grove's banker, returned home yesterday evening after a three days' visit to town attend-ing the Eastern Star grand chapter, of which he was elected grand patron.

NEW YORK, June 8.-H. Roberts and J. Simon, of Portland, are in New York today, the former at the Broadway Cen-tral and the latter at the Hoffman House,

Tally-Ho Accident. CHICAGO, June 8.-A tally-ho party, made up of young people from Oak Park, Berwyn and other western suburbs, met with an accident last evening, which rewith an accident last evening, which re-sulted in painful injuries to the merry-makers. The accident occurred under the Illinois Central Railroad tracks, at Fifty-first street. The tally-ho entered the sub-way under the tracks without the driver giving warning to those who were sitting on the top seats, and a dozen of them were scraped from their positions and theorem to the average

# numerities which falls upon the tropics have been entirely fuille. On the other and, it has been shown that the mag-letic forces having the characteristics intermediate the start here with the start here w R. M. ALLEN VISITING HIS BROTHER

ELKS IN PORTLAND.

5

A Reception in His Honor Will De Held at the Hotel Portland Tonight.

B. M. Allen, grand exalted ruler of the Benevolent Order of Ellas, arrived in Portland last evening, from his home at Birmingham, Ala, via Springheld, Indhus-apolis, Chicago, St. Paul, Grand Forkx, Fargo, Butte, Spokane and Seattle. He was accompanied from the last-named city by Ralph E. Moody, of Portland, who went over to Puget Sound to meet him. At the Portland last evening, Mr. Allen was immediately surrounded by a deputa-tion of prominent Elks of the city, and teses gentlemen proceeded to take pos-session of the distinguished guest during his stay here, which will terminate to more wevening. Today Mr. Allen will be shown about the city, and this evening, at 3 o'clock.

the city, and this evening, at 9 o'clock, he will be tendered a reception by the local lodge of Elks, at their hall in the Marbuilding.

Mr. Allen says the order of Elks, which sil, Allen Says the order of biss, which is il years old, has a membership of 15-000 in the United States, and that 33 new lodges were established within the last year. The order has no lodges in cities of less than 2000 inhabitants. He is now out the country. He left Birmingham May 25, and will take in San Francisco.

Kansas City and St. Louis on his journey eastward. He says prosperity has struck Birming-ham within the past few years, and that city one has a population of 5,000 A great steel works, employing 400 man, has re-cently been started, and the price of steel and cotton being high, redounds to the welfare of his city. He is an attorney by profession, and of a very genial, cordial disposition, which makes him friends rap-idly among strangers. He says his journey westward has been a continuous series of pleasant surprised, one of which he en-countered at Bute, where he was pre-sented with a beautiful gold badge, which is mounted with four eik's teeth, in the form of a Malteie cross. An elk's head in gold and blue enamel occupies the center of the obverse side, and on the reverse is a dial with honds pointing to il o'clock, the hour when the Eik always thinks of the absent brother. On the bar is en-graved the inscription, "Presented to Grand Exalted Ruler B. M. Allen, by Sil-ver Bow Lodge, No. 28." Mr. Allen would like to stay longer in

orand Exaited Roler E. M. Allen, by Sil-ver Bow Lodge, No. 20." Mr. Allen would like to stay longer in Portland, but pressing business at home compels him to hurry, so he will leave to-mourow morning for San Francisco.

Mate.

Good Words. It grows in low woods, which are called. Yerbales, and it has provided tea from time immemorial. The Indians were using It in South America when the Portuguese first settied there, but it derives its name Jesuit tea and mission tea from the fact that the Jesuit missionaries, who went out to convert the Indians, were the first to cultivate it, and thus seek to improve its quality and flavor.

quality and flavor. The leaves are prepared for use as fol-lows: The leafy branches are cut down, usually by small companies of Indians; they are then roasted, and when thorough-ly dry the leaves are stripped off them and ground down into a coarse powder. Afternoon mate tea is served somewhat differently to our afternoon "pick-me-up." The cure are made out of the dry hollow The cups are made out of the dry hollow gourd-like fruit, the size of an orange. Each has a circular hole at the top, as large as a florin, and they are often silver mounted. VTo make the tes, sugar and a little hot water are put into each, a little-powdered mate is added, and then the cups are filled with bolling water. An cups are filled with boiling water. An additional flavor is sometimes given by adding burnt sugar and lemon juice. The tea is not drunk directly out of the cups, but is sucked up through a narrow glass tube, thus the mate dust does not enter the mouth. We should probably find this tea rather disagreeable and bitter those accustomed to drink it are devoted to it, and there is no doubt that it is a most excellent restorative and a mild stimulant. It has the further advantage of being a most economical tea, for at least three good brews of tea can be made from the same portion of mate,

Low

The results optament for 1, 2, 2 and of are too low to be due to any brand of four. The water content varied from 29.06 in sample 8, to 28.50 in sample 30. The difference in the moisture content is prob-ably due to the different absorbing power

abily due to the different absorbing power of bread made in different ways. "In the Gase of protein there is not so wide a range, and the difference in this respect is probably due less to the method of making than to the difference in the composition of the flour. It is interesting to note that the breads made from Eastern Oregon flour have a higher per cent of protein than do those analyzed from West-ern Oregon. This is of prester interest

.35.81 .100 "The widest range is seen to be in the fat, which varied from 'trace' to 1.73 per cent. This variation in the fat of bread is considered to be due partially to certain changes which it undergoes in the process of baking, rendering the fat nonextracti-ble, perhaps in some cases destroying it. The results obtained for 11. 21, 22 and 25

OLD-TIME CLIPPERS SOLD.

"From the above analyses it is seen that the strawberry cannot be considered as a very nutrilious food, carrying but little over 10 per cent dry matter. Strawberries have even less food value than the fiesh of stone fruits. In a general way they may be stated to approximate vegeta-bles in their nutritious properties, which may be seen from the following table:

FRUIT OR VEGETABLE.	Water	Dry matter	Protein	Nitrogen free ex- tract, including fat and fiber	Anh	Acid as 803
Fresh prunes (Oregon; all prunes) Fresh prunes (Oregon; Bettles) Fresh prunes (Oregon; Italians). Californin (all prunes). Plune (California) Cherries (Oregon). Cherries (Oregon). Cherries (California). Potatoes. String beans. Turnips. Strawberries (Oregon)	77.37 772.26 777.07 80.20 78.40 81.30 79.40 78.30 79.40 78.30 90.46 85.57	22.46 27.74 22.93 15.89 21.60 20.60 21.70 20.60 21.70 10.89 9.54 11.45	1.14 1.14 1.06 .50 1.00 .90 1.20 2.20 2.30 1.14 .85	11.14 25.49 20.14 15.50 20.10 17.59 7.70 8.63 8.41		1. ******

A limited number of dietary studies have been made in this country to ascertain the effect of a liberal use of fruits and vegetables on the cost of jiving, and in this connection the results are interesting. The results of these experiments show the liberal ues of either fresh fruits or vegctables increases the cost of living out of proportion to the nutrients furnished.

However, it should be remembered that the value of an article of diet should not be measured entirely by the nutrients, as some foods undoubtedly have a certain medical and mechanical effect in stimulat-ing the appetite and counteracting any tendency to constipation by introducing into the system beneficial vegetable aci in pleasant and agreeable combination wi water and sugar. No fruit equals strawberry in this particular. The Thou containing a relatively small amount nutriment, strawberries offer in this a ver-valuable article of diet, and have a d servedly wide use in the American hous

An analysis was made of strawberry a for the purpose of determining the prop ingredients of fertilizers for strawberri-The conclusions are as follows:

"Strawberries draw heavily on the side of potash and nitrogen, the former consti-tuting about two-fifths of the entire ash. Any fortilizers used on strawberry plants uld be relatively rich in both potash and nitrogen, and I would suggest the fol-lowing combination and amount per acte: Pounds.

Nitrate of	soda	13
	potash	
Dissolved	bone	3

"It should be borne in mind that no scientific rule can be laid down in this mat-ter of fertilizers, as conditions are so variable, but the farmer must keep in mind the general principles and use his intelligence in applying them to his con-

of the most interesting subjects treated in the bulletin is the "Cost and Composition of Bread in Oregon." This

part of the bulletin is as follows: "During the year 1899 analyses were made and data collected under the direction of the writer, to ascertain the cost and composition of bread in Oregon. The study was made for the purpose of gaining some data for making comparisons, with simi-

ence in the cost of bread at the different points. It is the cheapest at Salem, aver-aging 3.3 cents per pound, and the highest at The Dalles, averaging 5.6 cents per pound—a difference of 2.3 per pound or 6 per cent. Portland stands about midway between these two, bread being purchased there at an average price of 4.3 cents per there at an average price of 4.3 cents per pound. If it be assumed that the aver-age family of five persons consume 1000 pounds of bread per year, there would be a difference of 353 in the cost, whicher purchased at The Dalles or at Salem. Comparing the cost of bread per pound in Oregon and the East, the following table is of interest:

New Brunawick, N. J. Trenton, N. J. Newark, N. J. Camden, N. J.		
		41.9
		4.4
Salem		4.0
The Dalles Portland	••••	4.5

appears to be very elightly cheaper here than in New Jersey, which may probably be taken as typical of the North Atlantic States. There appears, however, to be a greater uniformity in prices in New Jersey than in Orrgon. The difference in price would indicate that there is a lack of uniwould indicate that there is a lack of uni-formity on the part of the bakers in fixing the price of the loaf. Bread should be sold by the pound, and not by the very in-definite term "loaf," and then the pur-chaser would be able to know just what he is purchasing, and pay for just the amount obtained.

#### Electricity in Capsules.

Electricity in Capsules. This new compound, which is made from cheap chemicals. is put up in capsule form, and when added to a certain quan-tity of water will furnish electricity enough to light a house, drive an automo-bile or even a railroad train. But this is nothing compared to the strengthening power contained in a bottle of Hostetter's Stomach Bitters. It cures indigestion, dyspepsia, billousness, liver and kidney troubles and fills the system with the vig-or of health.

ter-2.5 38 Eastern Oregon (white flour). Western Oregon (white flour). 11 1.14 10.09 30.1 12.1 1.41 6.82 12.3 5.0 12.48 5.69 Western Oregon (whole wheat) Eastern Oregon Western Oregon Cost of Bread.

owners, however, will undoubtedly new get their money out of her on about one round voyage. She is now under charter to carry coal from Newcastle to Honolulu at 24 shillings per ton. This will amount to about \$12,000, and she can secure a lumber charter back to Australia from a Pacific Coast port at a rate which will amount to fully \$15,000. She is a very good lumber carrier for her tonnage, hav-ing taken over 1.000,000 feet from Puget Sound to Australia on a former voyage. Another ship of the City line also well known in this port is the City of Delhi. This vessel was reported on berth at Liv-erpool for Victoria, but news was re-ceived yesterday that she had been sold to the Germans and would be replaced for the voyage arranged for by the British whip Haia.

#### MORE FAST PASSAGES.

### Nereus and Colony Sail a Close Race in Excellent Time.

Close races and flying passages continue to be the rule with the Portiand grain ships, and the February fleet is keeping up the reputation made by the January and December ships. The British ship Colony and the German ship Nercus both reported out at Falmouth yesterday in 114 and 115 days, respectively. The Col-ony is a very fast ship, and seldom makes. a slow passage. She left the Columbia a clow passage. She left the Columpia less than 24 hours behind the Nereus, and a glance at their logs would undoutbedly show that over certain courses of their 17,000-mile run there was some pretty fust sailing done. There are but four of the February ships still out, the Saint Enoch, Jules Verne, Chile, and the unlucky Mar-rateting. The Glenholm, which ended

gareths. The Glenholm, which called on January 2, is spoiling the average pas-sages for that month by making a very ong trip, with one or two others which sailed the same month still loitering on the way.

Marine Notes. The German ship Nessia is progressing rapidly with her loading, and will finish his evening. Captain Joseph W. Spencer, who built the famous clipper ship David Crockett, ded in New York City May 22. His fa-mous ship was well known all over the world, and left some records that have never been beaten.

Mrs. Ann Gore, who died at Tusistin yesterday from the result of burns re-ceived a few days previous, was the mother of Capital George, and Chief En-gineer Charles Gore, of the Kalama railroad ferry, and of Captain John Gore, port captain of the Canadian Pacific fleet on the Upper Columbia and lakes.

The steamer Columbia is due from San Francisco this morning. The Del Norte, from the same port, via Coos Bay, is also due today.

#### Domestic and Foreign Ports.

ASTORIA, June 8.-Arrived-German hip Mabel Rickmers, from Hiogo. Sailed -British ship St. Mirren, for Queenstown or Falmouth for orders; steamer Despatch, for Cape Nome. Condition of the bar at

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#### THE IMPERIAL. C. W. Knowles, Manager

C. W. Knowles, Manager. Bobi Molatosh, cirr Bobi Molacos, Wu John P. Burns, San Pr C. A Dapper, Winlock F. B. Kondall, Astoria A W Stewart, N. Y J. A Goodall, Jr. Salem James D wyls, Denvir Mrs Win Black, Idaho Miss Barron, England Miss Barron, Salem Yotor R Finch Astoria Mrs Pinck, Astoria R C Judson, city A B Lekenby, WW Mrs W Preston, Eugene A J. Naser, Erie, Pa A Miss Kerney, Washough Frank P Barber, S P Mrs Moria, Oro Fin A J. Naser, Erie, Pa A Misser, Erie, Pa Miss Karry, Lackenby, WW Mrs W Oreas, Kastoria Miss Schreit, Barber, S P W S Cola, St. Paul J. M. Morria, Oro Fin A J. Naser, Erie, Pa A Miss Kastoria, Statoria Miss Marry N. Lackenby, Kastoria Barber, S P Miss Marer, Erie, Pa A Misser, Statoria Miss Marry N. Lackenby, Kastoria Bistore, S Bistoke, Astoria Miss Marry N. Lackenby, Hanner M. J. Badollet, do Miss Marry N. Lackenby, Miss Marry N. Lackenby, Misser, Statoria Misser, Statoria Miss Marry N. Lackenby, Misser, Statoria Misser, Statoria Miss Marry N. Lackenby, Hate ST. CHARLES.

## THE ST. CHARLES.

Mrs T. S Traillinger, do
Mr S T. Struckson, Wasco
H. S. Yaugha, Wasco
H. S. Yaugha, Wasco
Peter Mickel, Woodbr,
J. B. Strukbe, Oakland,
A. A Smith, Oakland,
J. G. Turner, McMand,
J. G. Turner, McMand,
J. G. Pielland, St. Paul,
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J. G. Turner, McMand,
J. B. Forsythe, Dilley,
T. T. W. Wasco, Carlin, J. S. B. Struken, W. S. T. T. Struken, Struken, W. S. T. T. Struken, Carlie, M. Schult, F. Slevens,
M. B. Glem, Dalles,
W. H. Coplinger, Dalles,
M. K. S. Maygers,
M. Bair, Vista,
M. K. Sandbard, Carli, S. Heisen, K. Antoria, Kalso,
W. H. Butler, Bandom,
M. Sonbie, T. Struke, S. Struke,

Hotel Brunswick, Seattle. European; first class, Rates, Re and up, black from depot. Restaurant next door.

Tacoma Hotel, Am. plan; rates 13 up. Donnelly Hotel, Tacoma; Europ-toc and up. J. C. Donnelly, Prop.

gun at the university, and the only sounds of the campus now are the ring of the chisel on stone and the noise of the supply trains coming and going from the quarries. An army of builders and sculptors are at work on the Memorial Church, the stonework of which costs \$250,000, and other buildings, including those devoted to the natural sciences. The contract for the new chemistry build-ing has just been let. It will cost \$100,000 and is the first structure except the mueum to be placed from about the inner quadrangle. A beautiful new postoffice building will be ready for occupancy July 1. These are all being constructed in harnony with the general scheme of Jesuit Mission architecture

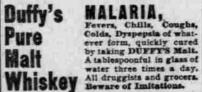
Mrs. Stanford will leave this week for Europe, where she goes to engage some famous sculptors who are to ornament the nemorial arch and church and other ediices.

The various departments of the univer ity, particularly law and engineering, are being strengthened by the advent of many new professors and assistants, secure in the East and in England. The entrance equirements have been raised to a level with those of the largest Eastern insti-tutions. An unusually large number of ap-plications for admittance have been made. and the freshmen class in Sentembe promises to be very large.

#### The Sun's Corona.

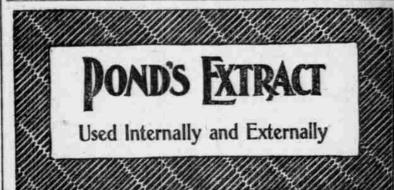
Professor F. H. Bigelow in Appleton's Popular Science Monthly. There are many existing theories to ac-count for the phenomenon of the sun's bright appendage, called the corona, which is visible only during collpase, on account of the absorbing effects of the earth's at-mosphere on its light. Is it electrical, or is it magnetic? Is it composed of fine stuff elected from the sun, or of meteoric dust falling upon the sun? Is it merely an optical effect, as some suppose, or is it a portion of the newly discovered radiant matter streaming off to enormous distances into space? The answer to these questions is eagerly sought through ob-servation, photography and every other ossible means, on the occasion of each total eelipse.

The efforts of astronomers have thus far secured a series of pictures of the solar corona, which, when compared to-gether, show very distinctly that the corona, as well as the spots, the protub-erances, and the faculae, are going through a series of changes which seem to repeat themselves in the so-called li-year period. It has also been proved, with entire distinctness, that the earth's mag-netic field, as marked by the changes in intensity of the magnetic elements, in the auroral displays, and the earth elec tric currents show variations which syn-chronize closely with those observed on the sun; also that the weather elements of pressure, temperature, precipitation and storm intensity all harmonize with the solar and the earth's magnetism in the same synchronism. All attempts of scientists to detect any variations in the



thrown to the pavement. Those who were severely hurt are: Miss Martha Matlock, Miss Mabel Lawrence, Miss Laura McIntyre, H. A. Service, F. B. Blanche.

The first brew, perhaps, excels in flavor, but it lacks something of the stimulat-ing power of the latter ones, and all three are equally without any injurious effects, for mate has no tannin in it.



Refreshing and invigorating when used in the toilet, or after shaving. As a remedy it controls all pain, bleeding and inflammation.

CAUTION-Witch Hazel is NOT Pond's Extract, and cannot be used for it. Ordinary Witch Hazel is sold in bulk, diluted, easily turns sour and generally contains "wood alcohol," which is an irritant externally, and, taken internally, is a deadly poison.

