THE WEEKLY OREGON STATESMAN

Published every Tuesday and Friday by the STATESMAN PUBLISHING 'CO. 266 Commercial St., Salem, Or. R. J. HENDRICKS, Manager.

SUBSCRIPTION RATES:

continued at the time of expiration of these. their subscriptions. For the benefit of these, and for other reasons, we have they are to pay \$1.25 a year, in case let the subscription account run may be no misunderstanding, we will keep this notice standing at this place in the paper.

SUBSCRIBERS DESIRING THE ADa diess of their paper changed must state the paper changed.

THE CABLE TO MANILA.

Discussing the projected cable line to the Philippines, Chandler Hale, in the North American Review, calls atof the two routes proposed, one by cal in the matter of construction.

The possible cable line most diswould give six cable stations, and the vantages. cost of construction is placed by Mr. Hale at \$25,259.810. He itemizes his It is a curious incident of the Demestimates in the matter of the number ocratic convention that the free silver and spare instruments, and contingent it, leaving a majority of two in the in saving the crops. expenses, but these are not necessar- committee for 16 to 1. If either the By more than generally fair, and his Indians or the Hawalians had voted SUMMER SCHOOL FOR CUBANS, total estimate is only interesting as ofthe second, or Alaskan, route.

of Alaska, 803 miles; Kadiac island, the farthest north station, which is in the latitude of Aberdeen, Scotland, 682 miles; Dutch Harbor, the north port of the Behring sea gold traffic, 770 miles: Attu. the western end of North America, 810 miles; the Japanese-Russian border, 858 miles, and North Japan, 810 miles, whence there are many wires overland, as well as eables to within 200 miles of the Phil-

Mr. Hale believes that a duplicated cable by way of Alaska to the Philippines, and in addition thereto a separate line from California to Hawaii, could be laid for about \$12,000,000, estimating as follows:

Route Miles International cable,

American, northern,

United States to Asia 8.876 S6,000,000 Same, with cable to 9,200,000

Cost.

EVERY HOUR YOU DELAY THE USE OF DR. PIERCES RESCRIPTION YOU DELAY THE CURE **ISEASES**

AND DESTROY

DRESCRIPTION

ALL WOMEN STROP

EKNOMEN WELL

YOUR BEAUTY

to Philippines, via Alaska, with branches to Japan

and separate cable

via Hawaii and Six months, in advance...... \$ 50 of the natural difficulties of fog, ice, been seeking workers for some time, American people will welcome with Three months, in advance..... \$ 25 and great depths are also to be considered with the power always gave a warm wel-The Statesman has been estab. Pacific is not so stormy, cold, and fog- be. "It was too had there weren't teachers just now arriving at our dressed to Lord Warwick, an accom- ited Constantinople. Most arriving lished for nearly fifty years, and it has gy as the North Atlantic, and that the more of them," she remarked, regret- shores under the hospitable care of Addison was nough related and their introduction over the late sultan some subscribers who have received it nearly that long, and many who have read it for a generation. Some of Alentian islands, would be avoided, as safe and commodious, these object to having the paper dis-

shelving coast, would make it possible machines. to keep a depth between 500 and 1,500 | The possibility of repetitions of the the name of their former postoffice, as 1,000 fathoms. The deepest stretch, Looking with interest in the direction well as of the office to which they wish touching 2,200 fathoms, is from Attu of Lincoln, Neb., where it might con-Russian Commander islands.

are correct and that a northern cable expansive fields of Illinois, Iowa, and line might be constructed at less cost Nebraska, with their menace of work, than a direct line from San Francisco lie in the way. And it is not work tention to figures tending to show that, to Manila, objection will no doubt be that this particular section of the general to such a plan for the reason army of the unemployed is seeking. way of Hawaii and the other along that the Alaskan line would be but The fact that even the Peerless now the Alaskan and North Asiatic coasts. partly American. Stations on both has a farm of his own and that there the latter would be the more economic Russian and Japanese territory would might be working opportunities there be necessary to its maintainance, while is another detriment to the journey. for communication with Manila the Mr. Bryan's crops are said to be promcussed is that along the southern present Asiatic cables would be relied ising and field tollers scarce. route from San Francisco to Manila upon. As the necessity for quick and The first delegation to call at Linby way of Honolulu, Midway Island, direct and wholly American communicoln represented a faithful follower of and Guam, with a branch line from jention with our new Asiatic posses- Mr. Bryan whose wealth ranges be-Guam to Japan as being necessary to sions is admitted, the line by way of tween \$100,000,000 and \$300,000,000. assist in its commercial success. This, Hawaii and Guam, which has been There may be other similar delegaon, a duplicate trans-Pacific system, shown to be entirely feasible, has ad- tions as the campaign progresses. But,

the other way, the result would have

The statistics of our foreign trade for the fiscal year just closed show an increase in value of over three hundred million dollars as compared with the preceding year, while the proportion carried in American ships was never so small-a condition that ought to compel the enactment of laws at the next session of Congress for the revival of American shipping in our foreign trade.

of that road into Southeastern Oregon suggestively. It will be seed thoughts the Grand Ronde pass. And these painful disadvantage that these the next few years. The needs of the fellow teachers are so little acquaintcountries to be tapped call for them.

proclaims the Baker City Democrat, guage study. has had in all its history, and with to be teachers and leaders among their them now, outside of its new possess. English, not less will Americans need ions, for instance, Alaska, Indian Ter- similar acquaintance with the Spanish, you are falking about the Empress ritory and New Mexico.

Croker's victory at Kansas City has closest relations with each other. With split the Democracy of New York all our new political relations to the state; that in pursuit of personal ven- great Spanish-speaking islands, it is geance he has ruined the party's pros- quite certain that there is soon to be pects locally, even Tammany being ap- in our American schools a great movepulled by the outlook. Losing New ment toward the mastery of the Span-York, the Democracy is doomed.

TRAMPS ARE AVOIDING THE ive and far-reaching influence. FARMING SECTIONS.

at a farm conducted by a woman and oughly fair, is far from being optimispresenting a plea for something to eat tic. At least, as the writer concludes, and a place to sleep for the reason

sons, sent them out to rake the mend- Cuba will make a new Cuba." This contrast in cost is made as a ows sweet with hay. For this enforced | Dut of course there will be no use in result of the difference in the length labor they were paid a day's wages, anticipating any such new Cuba ex- words were suggested by the noise of high salary, and only gave him a of the cable links, as the greater the and permitted to depart, but it is now copt through the transforming power the celebration. Some say his last temporary substitute in the person stretch the heavier and more costly said they are traveling by night and of a new and universal system of words were "Jefferson survives;" if so, of Aranda Pasha, Spanish musician,

Otherwise, Kansas farmers have been cutting hay and grain by lamp-By the northern route the different light and hunting "help" on highways concluded to discontinue subscriptions stretches are comparatively short, and at crossroads. They not only rock crusher. If this amount had been how wretched I should be!" A few moonly when notified to do so. All per- none exceeding 850 miles, thus making want help, but they will pay well for sons paying when subscribing, or pay- repairs comparatively easy at any it. A Chicago Inter Ocean writer reing in advance, will have the benefit of time. On the southern route there are marks that these are consequently the character of the roads to be built. the dollar rate. But if skey do not pay but four stretches, these being 2.286, inclancholy days for tramps, especial. We still maintain that plank roads are the best and eleganest for this year. Hereafter we will send the pa- 1.254, 2.503, and 1,496 miles. The depth by in the agricultural states. The tinper to all responsible persons who or- on this route is to be particularly con- can element of the present summer is der it, though they may not send the sidered, as it is very great, and so far engaged in doing nothing from choice, plank roads are good anywhere. Orethe maximum depth from which a ca- not necessity. To evade employment gon City Courier-Herald. ble has been raised is 2,700 fathoms, it is compelled to take to the deep over six months. In order that there and this is greatly exceeded in the Pa- woods or pursue unobserved paths far Clackamas county may be a "white who at its conclusion informed Andre sific. On the contrary, the northern from the haunts of men and away line, which lies along a gradually from the click of reapers and mowing

> fathoms, the average not exceeding Kansas incident fills it with alarm. to the Asiatic mainland, and to avoid trive to pose as "the army of unemthis the route has to run north of the ployed" at the front gate of the Peerless, it finds itself unable safely to Admitting that Mr. Hale's estimates make the journey. The fertile and

unemployed."

The same cry for help goes up from of knots of cable needed 0.285,, includ- plank was carried in the committee by the wheat fields of Eastern Oregon ing 10 per cent, slack for laying the the votes of the delegates from the and Washington, and it will soon be cable one way), and for spare cable, territories-Oklahoma, Indian Territo- heard in the hop yards and orchards busy. two cable ships, cable gear, duplex ry and Hawaii. Alaska voted against of the Willamette valley-help to aid

fering a comparison with the cost of been a tie. So annexation may be said The brightest and most hopeful in in each county would induce The conto have saved the day for the sil-cident in Cuban history since the war struction of more of the same kind. The latter, which has been surveyed, ver plank, though it is understood that is the coming of 515 Cuban teachers It is possible to have Oregon secure although not by the government, has the Hawaiian delegates were not an- for a three months' summer normal for herself permanent highways, in six divisions—that of Sitka, the capital nexationists, and though none of the school at Harvard. A few days ago the course of years, by making the territories will take part in the elec- the United States transport Sedgwick right start. And in this way the dethe United States transport Crook 205 than is now thought possible. An editorial friend on the Oregonian men. Harvard University, through is unduly worried over the sad fate of President Eliot, appropriated \$75,000 Roosevelt, because he was nominated toward the expenses of these new for Vice President, fearing that he "schoolmasters abroad" from Cuba. will be swallowed up and forgotten. They come primarily to study Ameri-There is no danger. Roosevelt will can schools and American methods of says the people of Burns and other of Abelard, are the expressions of a take the office out of its obscurity, and teaching, and, not less, to study the points in Harney county are enthusias noble and fervent spirit), about 1100he will be heard from all the time up methods of teaching and of school tic over the hope that the Corvallis 1164: "In death at last let me rest with to 1904, and then he will be the least management that will be best suited dead of all the men before the count to existing conditions among their tile region. Surveying parties are now wall Jackson, distinguished Confedertry. Don't worry about Roosevelt own people. At the same time it may at work in Harney county and the ate General), 1824-1863; "Let us go dropping below the surface, as long be assured they will be extremely alert company are paying about \$4000 a over the river and sit under the reand sensitive observers of American life and institutions, manners and to Eastern Oregon at no distant day.

To provide for and manage rightly the logical road to meet the demands this new army of pacific and docile invaders will take a high order of wisdom and tact. They will of course be made to feel that they are among friends who have the sincerest and friends who have the sincerest and most unselfish interest in them. They probably will not be expected to burn a great deal of midnight oil poring over mere textbooks. While not much can be done thoroughly, a multitude of the sincerest makes oath that he is the second of the firm of F. J. Chenney Eco., doing business in the City of Toledo, County and State aforesaid, and that said firm will pay the sincerest of ONE HUNDRED DOLLARS for each and every case of Catarrh that cannot be cured by the use of Hall's Catarrh Cure.

Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1886. It is reported that surveyors are at over mere textbooks. While not much work beyond the eastern terminus of can be done thoroughly, a multitude of the Corvallis & Eastern. An extension things will be done tentatively and | EBAL. would certainly pay. So would a line that will be depended upon to do most from Sheridan to the coast, through good. Of course, there will be the extensions will certainly be made in Cuban teachers and their American ed with each other's language. But this fact will of itself have no little "A republic can have no colonies," influence in stimulating the new lan-

But it can have territories and ours If Cubans, especially those who are in that unexpected way." varying plans of government. It has own people, need a good knowledge of Whether Cuba ever is to become a Dowager or our cook."-Washington part of the United States or not, the Star. The New York Herald declares that two peoples are bound to have the ish language. And this most interest. THE BEST PRESCRIPTION FOR MAing Harvard summer school of Cuban teachers will not be without its decis-

The article in the July Atlantic by J. It was in Kansas that two tramps D. Whelpley on "Cuba of Today and pay. Price 56 cents. recently made the mistake of calling Tomorrow," while seeming to be thor-"the only thing which seems absolutethat no work was to be had and they ly remote, improbable, and almost imdidn't know what was going to become possible from every point of view is a of the country. Whereupon this fem lifee and independent Cuban republic."

inine farmer, who had been advertist Put, he adds, the hope of Cuba is not ing for additional farmhands, lured in the present generation, but in the her callers to the cyclone cellar and generation to come. "With education, morning she gave them breakfast and, institutions, and long respite from vin records the following: under the escort of her three stalwart guerrilla wartare, the new people of

A "WHITE ELEPHANT."

'The county has a "white elephant" on its hands in the shape of a \$1300 and power, but if these were all I had, spent for portable sawmills it would ments later be repeated the familiar have shown better judgment for any lines; one acquainted with this country and are the best and cheapest for this county. There are some sections where rock or gravel roads are all right, but

The rock crusher purchased by elephant;" but \$1300 ought to buy a good rock crusher, that would not prove a white elephant, if used judi-But it is very doubtful if plank roads are " the best and cheapest" for any county." Their first cost would not be pang. as large as for crushed rock roads. But the crushed rock road, if properly constructed, would last practically for all time, with only slight cost for repairs, while a plank road would have to be renewed often if used a great deal. and every dozen years or so, if used only a little, on account of the deterioration caused by the elements. In the deed, end, the crushed rock road would be far more economical, and it would be much more serviceable.

But it must be remembered that the \$1300 or any other sum, will not result in the construction of crushed rock roads, Marion county was once possessed of a "white elephant" of the same kind, and we believe of about equal price. One trouble with it was for perfectly obvious reasons, there that it was not large and strong will be no call from "the army of the enough to make it economical in operation. But the greatest trouble would mitted suicide, be, even if it were quite strong and large enough, that there is no system by which it could or would be kept

Oregon needs a State Engineer of up to the crushed rock point of devel. for one moment of time." opment might secure permanent high- her last words thus: "I will have no ways. One piece of road of this kind took on board 310 women teachers and velopment might be much more rapid

RAILROAD SURVEYING.

Albany Herald: W. H. Hogan reand Eastern may extend their road Abelard." month in this work. The people there freshing shadow of the trees." He was feel confident the road will be built in- accidentally shot and mortally woundcustoms, as they will have occasion to There is a great field for a road into of night. that inland empire, and the C. & E. is

STOR OF OHIO, CITY OF TOLEDO, | 65. LUCAS COUNTY.

A. W. GLEASON, Notary Public. Hall's Catarrh Cure is taken internally and acts directly on the blood and mucous surfaces of the system. Send for testimonials, free. A. F. J. CHENEY & CO., Toledo, O.

60 Sold by Druggists, 75c. Hall's Family Pills are the best.

DISQUIETING.

"Charley, dear," said young Mrs Torkins, "I wish you wouldn't read aloud from the newspapers any more

"Why not?"

"It makes me jump. Whenever you mention the smashup in China I can't be sure for several minutes whether

A TATTERED REMNANT. "Jimmy, take this awful looking cabtell him to send me a respectable one. way home,"-Indianapolis Journal,

LARIA.

"Priggsy is an old settler, isn't he?" for eight years."

the Lind You Have Always Bough

and the second

LAST WORDS OF GREAT MEN.

to Hawaii. 12,735 12,000,000 locked them in over night. In the development, contact with American ed Men and Women," Frederic R. Mar- a matter of history. It was because

Addison was nearly related.

Albert (Francis-Augustus-Charles-Gotha. He married Queen Victoria, his cousin, the 10th of February, 1840), 1819-1861; "I have had wealth, rank,

Rock of Ages, cleft for me,

Let me hide myself in thee. Andre (John, Major in the British Army at the time of the American Revolution, and executed as a spy October 2, 1780), 1751-1780; "It will be but a momentary pang." The order for execution was loudly and impressively flower girl, it can properly be referred read by Adjutant General Scammel, to as an "event." that he might now speak, if he had anything to say. Lifting the bandage for a moment from his eyes, he bowed courteously to Greene and the attendciously. We don't know how many ling officers, and said, with firmness bad habit, and tries to quit it. 'portable sawmills" \$1300 would buy, and dignity: "All I request of you gentlemen is that I die like a brave man." A moment later he said, almost in a singer is poor, they encore her. whisper: "It will be but a momentary

American clergyman, for many years | One girl in every neighborhood who pastor of Plymouth Congregational is able to play a wedding march is all church, Brooklyn, N. Y.), 1813-1887; the musician the neighborhood needs Now comes the mystery.'

Henry VIII), 1507-1536. Just before apparent excitement, that she is called she knelt to lay her head on the block the Fire Brigade. she clasped her neck with her hands and said; "It is small, very small in-Porgia (Cesare), killed at the siege

of the Castle of Biano in 1507: "I die unprepared." Cesare Borgia was one of the most crafty, cruel and corrupt men of that corrupt age. No crime was mere purchasing of a rock crusher, for too foul for him to perpetrate or to be suspected of. Bronte (the Reverend Patrick, father

of Charlette and Emily), 1774-1861: While there is life there is will." He died standing.

Cleopatra (Queen of Egypt, daughter of Ptolemy Aulete, B. C. 69-30: "Here thou art then!" These words, which are traditional, she is said to have addressed to the asp with which she com-

Dickens (Charles), 1812-70; "On the ground." He was losing his balance and feared that he would fall to the floor.

Elizabeth (Queen of England and daughter of Henry VIII by Anne Bol-Roads, and laws under which districts eyn), 1533-1603: "All my possessions rogue's son in my sent.'

Franklin (Benjamin, moralist, statesman and philosopher), 1706-90; "A dying man can do nothing easy." Grant (Ulysses Simpson, eighteenth

President of the United States), 1822-85; "Water," he said to an attendant who inquired if he wished for any-

Heloise, or Eloise (a beautiful and accomplished French woman; the niece of Fulbert, canon of Notre Dame. She became successively the pupil, mistress and wife of Abelard. After her marriage she became prioress of Arturned from a business trip to East- genteuil and acquired a high reputaern Oregon yesterday. He made the tion for piety. Her letters, written in advice?" trip by way of the McKenzie route. He elegant Latin, and printed with those

ed by his own soldiers in the darkness

Jefferson (Thomas, third President of the United States), 1743-1826: "I resign of commerce and be the first road my spirit to God, my daughter to my country." His death was very remarkable. It occurred on July 4, 1826, while the nation was celebrating the fiftieth anniversary of the Declaration of Independence, which he had written. On the same day, and almost the same hour, John Adams, the second President, who had signed with him the Declaration, died in New England.

Moody (Dwight Lyman, distinguished American evangelist), 1837-1899; "I see earth receding; heaven is opening; God is calling me.'

Stevenson (Robert Louis, English author), 1850-1894; "What is that?" He felt a sudden pain in his head, and, clasping his forehead with both hands, exclaimed, "What is that?" and soon after ceased to breathe.

Washington (George, the "Father of His Country" and the first President of the United States), 1732-1799; "It is well." Some say his last words were: "I am about to die, and I am not afraid to die."

TURKEY'S MUSICAL MONARCH.

Ottoman Ruler Is Said to Be a Skillful Performer on the Piano.

The Sultan of Turkey is not one of those dangerous mortals described by and cause the bad taste to disappear. Shakespeare who "hath no music in his soul." It is said that he is exceedingly fond of the divine art and plays the piano with far greater skill hage straight back to the grocer, and than the majority of amateurs. Death has just robbed Constantinople of a He won't take it back, ma. Me and musician who at one time was the Dicky Jones played ball with it on the leading spirit in Turkish musical affairs, Generalli Guatelli Pasha, who only held his military title by virtue of the fact that he was bandmaster in chief to the sultan. In 1848 the gener-Chills and Biliousness is a bottle of al. an Italian by birth, stepped into GROVES'S TASTELESS CHILI the position as the successor of Glu-TONIC. It is simply Iron and Qui seppe Donizetti, brother of the composer of "Lucia," etc. In addition to seppe Donizetti, brother of the com- 12 your druggist does not keep it, send direct poser of "Lucia," etc. In addition to to the BUDYAN REMEDY COMPANY, directing the musical affairs of the San Francisco, Cal., and they will send it to Turkish army, Donizetti had also had you. You can consult the great BUDYAN the musical education of the then sul- DOCTORS PREE. Do not forget that "I think not. He has owed me \$7 tan's sons under his especial care. Call and see them if you wish. You may Among these youths was Abdul Ha- call and see them, or write, as you desire mid, the present sultan, who not only Address plays himself, but has also seen to it that his numerous children have had

a good musical education Guatelli Pasha is proud to be almost

as great a favorite at the Turkish court as Donizetti had been, and he In his book on "The Last Words was an especial of the Sultan Ab-(Real and Traditional) of Distinguish dul Aziz, whose unhappy fate is now of this friendship with Abdul Aziz Adams (John, second President of the that the present sultan, when he as-United States), 1735-1826; "Independ-cended the throne, never made a faence forever?" He died on the Fourth vorite of Guatelli Fasha, but he perof July, and it is thought that his last mitted him to keep his rank and his away at an earlier hour the same day, cat sultan, Guatelli Pasha was a very Addison (Joseph, poet and essayist), kind-hearted man, and in the days of owed their introduction to the genial Italian, and they were generally duly Emmanuel, Prince of Saxe-Coburg and grateful, for it is the custom at the Turkish court to give a virtuoso a substantial sum for a court concert, in addition to some glittering decoration. Guatelli Pasha was 84 years of age when he died the other day,

SOCIAL PHILOSOPHY.

(Atchison Globe.) A practical joke should be handled as carefully as a double-barreled gun. A boy in the family always comes in handy when the pie left over isn't enough to save.

When, a wedding has an arch and a

Usually, when you pass two women on can hear one ask. "Did you make it without a pattern?"

A man who amounts to anything soon realizes that swearing is a very There are some people so particularly vicious that when they find that a

A half dozen different forks and spoons at a plate will not help a man Beecher (Henry Ward, distinguished to cat corn off the cob gracefully.

An Atchison women rans around the Boleyn, or Bullen (Anne, wife of neighborhood so much and in so much

> A NEW USE FOR THE PHONO-GRAPH.

It has been proposed to employ the phonograph as an aid in learning foreign languages, says the Chicago Chronicle, In learning a language if is necessary first of all to have the ear trained to catch and recognize the sounds, and the only way to secomplish this is to listen to the continual repetition of the sounds until the ear becomes familiar with them. Many persons have to learn a foreign language without any sid from a teacher that can speak the language correctly, and even those that are so fortunate as to have a competent teacher can not constantly have the teacher at hand. Now it is proposed to have phonographic records of language lessons; then the student can have the machine repeat the lesson over and over again until he is perfeetly familiar with it.

THE FOLLOY OF EXTRAVAGANCE The London King says:

Before I agree to undertake your defence," said the eminent criminal who had been called in. will have to be perfectly frank with me and tell me the whole truth. Did you embezzle the £20,000 you are accused of having taken?" "Yes sir." replied the accused man, "I'll not atcompt to conceal the fact from you. I stole every penny of it."

'How much of it have you left.'. "It's all gone but about £ 10." "Young man," said the eminent law-

ver, putting on his gloves, "you'd better plead guilty and throw yourself on the mercy of the court.". "I'll do it if you say so, sir. What are you going to charge me for the

"Ten pounds."

Dr. Jalap-Let me see your tongue, please. Patient-Oh, doctor no tongue can tell-how badly I feel.-Tit-Bits.

THE STOMACH Is a chronic disease. There is an inflammation of the inner coating of the stomach. A



and this causes the more pronounced symptoms. It remains in the stomach and decomposes. Then, of course, digestion cannot be properly performed. The great vegetable remedy HUDYAN never fails to effect a cure, HUDYAN can be had of all druggists for 50c, per package. Study your

thick, ropy mucus forms

symptoms carefully from this chart. Each number represents a symptom or a group of symptoms. You have the symptoms. Use MUD-WAN and they will disappear.

1. BILIOUS HEADACHE. This is pronounced in the morning. HUD-YAN will relieve the headache.

2-3. RED AND WATERY EYES. HUDYAN will cause the redness to disapappear and make the eyes assume their nermal, healthy appearance.

4. COATED TONGUE AND FOE-TID BREATH AND BAD TASTE IN THE MOUTH. HUDYAN will clear the tongue, make the breath pure and sweet 5. PAIN AND TENDERNESS IN

THE STOMACH. This is due to indigestion. MUDYAN will cause the food to become perfectly digested and the pain and tenderness will disappear.

e, ENLARGEMENT OF THE LIVER. HUDYAN will lessen the congestion and reduce the enlarged liver to its normal size.

HUDYAN will relieve you of the above symptoms and make you well. Do not delay.

Go to your druggist at once and procure a package of HUDYAN for 50c. or 6 for \$250.

HUDYAN REMEDY COMPANY,

Cor. Stockton, Murket and Ellis Sta-San Francisco, Cal-