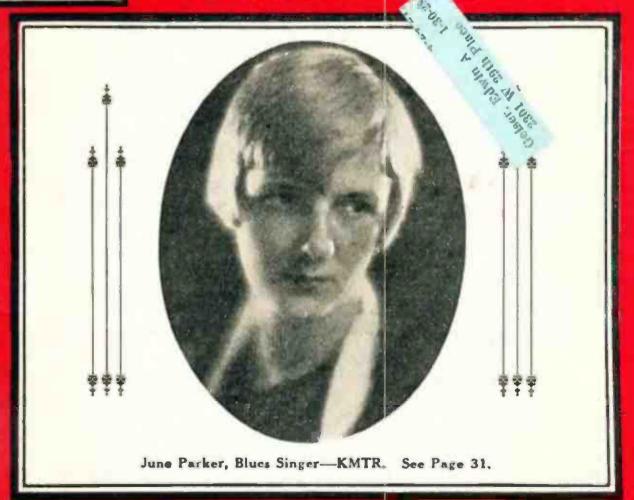
# RED BOOK OF RADIO



The Radio Authority
Of the Pacific Coast



PRIZE PROGRAM—PAGE 16

Vol. X

MARCH 20-26, 19:27

No.12

# 1927 Kolster Radio

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Technical Editor

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MARCH 19, 1927

San Francisco

No. 12

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Played by PAUL WHITEMAN

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A layman hears the tapping sounds at the beginning of this record, but cannot tell for sure what instrument, or what kind of instrument is playing. The Chinese music following this has a pleasing atmospheric effect, but even a trained musician finds it difficult to tell just what instruments are used. As the melody proper is introduced, it is equally difficult to recognize each individual in a trument.



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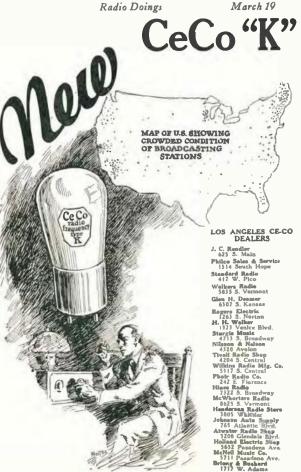
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DEALERS: Park Next Door at Our Expense

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## Radiograms

From

CLOYD MARSHALL, JR.

#### Comedians?

The theaters in Washington are having a hard time of it. The managers report that the people of the National Capitol are great lovers of comedy and burlesque, so they go to the place that affords the best of this type of entertainment—the Senate and the House of Representatives. Pity the poor theaters when they have to buck this kind of competition. Senators have had so much practice in comedy and burlesque that an ordinary comedian competing against them hasn't a chance to get the plaudits of the crowd.

#### Wasters!!

We put a man into jail for stealing fifty dollars, but we do nothing to a bunch of incompetents known as congressmen for wasting untold millions of the taxpayers' money.

Of all the asinine gatherings ever assembled in this country the one bringing together the sixty-ninth congress was by far the worst. They played politics and neglected the business of the nation. A couple of "obstructionists" from Arizona and Utah held up the much needed Boulder Dam Bill. If the Colorado river overflows this year and wipes away the life-savings of thousands of families in the Imperial Valley, the scornful finger of guilt points at these two senators. The only bright thing they did was to pass the much-needed radio bill. but then to show their stupidity, they refused to endorse two of the commissioners whom the President had appointed or to vote an appropriation to carry out the provisions of the bill.

The people of this country will have to do one of two things, they will either have to take more interest in the government and Select really competent men for congress or change our form of government so that we won't have to bother with the governing of ourselves.

#### Store of Information

There is much for which we cannot thank our ancestors. But on the other hand, we should ever be grateful for the vast store of information which they have passed on to us. Through the medium of literature we have the best of their thoughts and experiences to help us attain happier and more helpful lives. Though only a small portion of all the worthwhile books could be read in a whole life time, yet of those we read let the best ones be our wise selection.

#### Needed Law Changes

The California Crime Commission has proposed certain procedure reforms for our criminal laws, which would help to speedily bring the criminals before the Bar of Justice.

They are trying to get the legislature to pass such a bill. To the astonishment of nearly every honest citizen there has appeared some very strong opposition.

The mushy sentimentalists, the gunmen, the hi-jackers, the bootleggers, the bail bond agents and the crooked criminal lawyers are the ones who are putting up the strongest opposition. This is to be expected, but to have opposition from any other source is unbelievable. We want and need a law in California such as the Baume law in New York.

The papers for the last week have been full of holdups, burglaries and violent deaths. If we had a Baume law in California the scurrilous people of the "underworld" would quickly get out of this state as they did out of the state of New York.

## Third Contest Prize Letter

Radio enthusiasts the country over have generously responded to our "Ideal Program Contest," which convinces us that they know what they want. However, it is also convincing that the popular taste varies greatly.

Many of the programs submitted consisted entirely of Jazz selections, some

of classical renditions exclusively and others were widely diversified.

The letter and one hour program appearing below will be broadcast from KMTR on the night of March 21st, between the hours of 9 and 10, and will be sponsored by the Precision Electric Manufacturing Company of 1019 Santa Fe avenue, Los Angeles, California.

### JOHN O. SHINE DELANO, CALIFORNIA

February 24, 1927.

Contest Editor, Radio Doings, Los Angeles, Calif.

Gentlemen:

Radio, as I see it, is one of our "Nation's Biggest Assets" today, and as time goes on it will continue to grow in popularity and value.

With the numerous good stations we have on the air and the varied programs put on for our enlightenment, entertainment and amusement, one can find, almost any evening, a program suitable to his mood and desires.

Radio in my home offers me the best of information on various subjects and daily happenings for my enlightenment, but, best of all, it gives me a complete diversion from my daily work.

If I may outline a program which I am sure will give to me and my associates an hour of real pleasure, I will choose as follows:

"Kiss Me and Then Say Good-bye," "Barcelona"
Bill Hatch's Orchestra

"Love's Old Sweet Song," "My Dream of You"

Dan Gridley, Tenor Solo

"Doll Dance," "Neapolitan Nights"
Bill Hatch's Orchestra

"At Dawning," "Mighty Like a Rose"
Violin Solo by Ray Kellogg, Organ Accompaniment

"Lay My Head Beneath a Rose," "When Irish Eyes Are Smiling"
Dan Gridley, Tenor Solo

"Sunday," "Everything Is Made for Love"
Orchestra

I want to take this opportunity to thank you for the consideration that you have always shown to the vast army of radio fans of the Pacific Coast.

I am for Radio first, last and always.

(Signed) JOHN O. SHINE.

In choosing the prize letter, the judges, Messrs. G. Allison Phelps, A. G. Farquharson and N. E. Brown, carefully reviewed selections and programs which have in the past received most commendation from the Listeners-In. It was further necessary to consider not only the merit but the plausibility of the programs submitted as to length of time for announcements and pieces, the most acceptable continuity of offerings and the possibility of obtaining the necessary talent.

We wish to congratulate Mr. John O. Shine for submitting such an excellent and well-rounded program. We hope that he and all other owners of radio sets

in the west will enjoy this program from KMTR.

### Precision Electric Co. Sponsors Radio Doings Prize Programs

Mr. Lyman Gage, President of the Precision Electric Company, has been deeply interested in finding out just what type of Radio program is most popular with our readers. Working in conjunction with Mr., Lockwood, of Lockwood-Shackelford Company, and the Publishers of Radio Doings, the Prize Contest letter on the preceding

present the first ideal program, as this group of musicians is one of the most popular and best known orchestras broadensting from local stations. Station KMTR will broadcast this first prize program Monday, March 21, from 9 to 10 p. m.

For the best program of classical music the Precision Electric Company has very kindly offered the additional prize



Bill Hatch and His Orchestra

page of this issue is taken as the basis for learning the choice of the listeners in. The majority of letters indicated a program of popular music and old-time ballads, as first. Programs of classical music came next. In the endeavor to please the greatest number of fans a prize letter program was selected from each class instead of only one from all submitted. Bill liatch's orchestra has been engaged to

of a Pemco A and B 135-volt heavy-duty Power Unit. This prize program will go on the air over KMTR at 9 o'clock on the evening of March 28. In the issue of March 27 (out March 23) Radio Doings will publish the name and photograph of the orchestra presenting the second prize program.

Radio Doings will greatly appreciate hearing from its renders concerning the reception of these programs.

## Pemco will Sponsor the 2 "Radio Doings" Prize Programs KMTR

370.2 Meters

MONDAY EVENING, 9 to 10 MARCH 21st and 28th

Pemco will give to the "listeners in," as nearly as possible, the two prize-winning programs. The sponsoring of these programs has been prompted by our interest in Radio Broadcasting. Yes, it is advertising in one sense of the word, but on the other hand we desire to give, that we may receive. It is you radio owners who need the Pemco units. so what is a more logical use for our advertising money than making possible radio entertainment that you will enjoy-winning your good will?

#### Pemco Runs Any Radio Set

Pemco is an automatic A and B Power Unit that runs any radio set direct from the electric light socket. All the fuss and bother of A and B batteries is done away with. Your radio becomes a dependable instrument-capable of receiving distant stations more consistently with a volume and quality of tone that is limited only by the set itself.

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Money cannot buy a better socket Power Unit than Pemco. Pemco has no peer-indeed it is far superior in every respect to an overwhelming majority of socket Power Units now on the market. We might sound a little "chesty" in these claims but if you knew what we know about all of the various radio socket Power Units on the market you, we are sure, would criticize us for being so conservative.

Free Installation—Easy Payments

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Any Pemco dealer will gladly demonstrate a Pemco on your own set, free of charge and without obligation on your part. He will also arrange the easiest of terms.

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Pacific Wholesale, Inc. 1320 5. San Pedro St., Les Angeles

# Power Unit

Mail the Coupon

PEMCO (Pacific Coast Factory) 1020 Santa Fe Ave., Los Angeles, Calif. Please send me without obligation full information about the Pemco. I would like to see another program contest.

Yes..... No......

## Radio Topics of the Day

A Weekly Review of Radio News, Thought and Opinion

## MAY BE SOME TIME BEFORE COMMISSION BEGINS

The question now is how soon will the new national radio commission get down to business and how will they do it without funds, inasmuch as the \$115,000 emergency appropriation was lost in the failure of the second deficiency bill to pass. Inasmuch as Rear Admirai Wm. H. G. Bullard. U.S.N., retired, the chairman of the commission, is said at the moment to be in Shanghai en route home from the Philippines, where he has been visiting his son, who is also a naval officer, it is doubtful if the commission will formally begin to function for fully a month, if then.

#### HOOVER SUGGESTS PRIORITY

An interesting suggestion for relief in the badly over-crowded wave lengths has been made by Secretary Hoover, possibly brought to mind by his wartime experience, that priority at different times of the day be given to certain classes of broadcasting. For instance, according to his theory, weather reports might have priority at eleven o'clock in the morning, five o'clock in the evening, and farm prices at noon and six o'clock, say, with entertainment having full sway during evening hours.

This, in fact, is pretty much the way the air is being allocated at the present time, and with a little more definite direction and increased authority, which the radio commission will likely have, there appears to be a good chance for working out the idea, with latitude, of course, for important current events.

#### FIRST NON-LICENSING WEEK

A sigh of satisfaction was heard at the Department of Commerce this week that for the first time in eight months no new stations had to be licensed. Each month since the department lost control through the attorney general's decision last July, not only were licenses granted to between twenty and thirty stations, but as listeners well know, a bewildering number of changes of wavelength and locations were announced. Just as bad, although the department had nothing to do with it, was the way stations changed or increased their power at will.

In fact, that short space of time over 200 stations were granted licenses, 50 changed their location, about 200 their power, and more than 100 their wavelengths. This has now all been stopped, awaiting the pleasure of the new commission, as was evidenced by the fact that this week, in contrast to the rest, Chief Radio Supervisor Terrell had absolutely no changes to announce.

Also waiting action by the committee will be the matter of granting licenses. If any are ever granted, to the almost 200 stations now under construction. Likewise, it may be confided that the officials at the Commerce Department are awaiting with considerable silent interest what may happen to the first request for a construction permit to begin the erection of a new station. The general impression appears to be this will be fraught with more difficulties possibly than securing a new license.

#### What About 1927?

By R. A. VAN DUSEN Gold Seal Electrical Company

They have said it every January for the past three years, and now they are saying it again:

"Radio has passed its introductory period of growing pains and uncertainty and is now settled down as a staple industry."

Well—maybe, but there is still much to be done before radio reaches the position of the shoe or soap industries. There are still many rough spots to be ironed our—many weak spots to be strengthened.

But this makes no difference in the soundness of the radio industry as a whole. That is assured. Prosperity? Future prospects? Dunt esk!

But progress is not helped by the fatuous enunciation of platitudes to the effect that everything is lovely now in the radio business—no more disagreeable difficulties—all we have to do now is sit back and watch the profits come rolling in. Yes.

Radio is undoubtedly headed for greater and better things than ever before. The coming year will be one of unprecedented prosperity—for the radio man who realizes that the opportunity is one for aggressive, planned sales effort, but not for the man who expects profits to jump into his lap.

The radio industry has certainly passed through a period of chaos. Much of the mushroom, unhealthy growth of this boom time has died away. There is still some left, but it cannot survive.

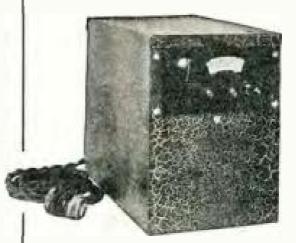
Figures show that the number of radio dealers has diminished practically 33 1-3 per cent since the height of the boom in 1924. Does this mean loss of husiness? Absolutely, no! It means progress, sounder merchandising, better husiness.

For the consumer, it means better service, better satisfaction, more confidence, and a better appreciation of what radio really is. You can't blame the ordinary purchaser, confused by the strident clamor of irresponsible manufacturers pressing their conflicting claims, when he buys the cheapest goods he can find—and then condemns all radio.

Cut price, "gyp," low quality merchandise is the greatest enemy that radio ever had.

# The Sensation of the Season

# McKinley Junior "B" Eliminator



\$9.75 Complete

Absolutely No Hum No Tubes to Blow Out No Acid

#### GUARANTEED FOR ONE YEAR

Other McKinley 'B" Power Units, \$20 to \$35

GIVE YOUR SET A TREAT

A Constant, Steady 'B' Supply

Send Check or Money Order for \$1.00 and We Will Ship C. O. D.

> Phone for Demonstration YOrk 1828

> > Or Call

McKinley Radio Mfg. Co. 10905 S. Main St. Los Angeles

Also sold by
GOODWORK CABINET RADIO SHOP
8715 Avaion Bivd. Los Angeles

## **B** Eliminator—What Is It?

By K. G. ORMISTON

The B Eliminator, or "Socket-power Unit," as the National Better Business Bureau has named it, is noither complicated or mysterious. Its purpose is to convert electric current of the type found in the ordinary house lighting circuits to the type required for the plate circuits of vacuum tubes in a radio receiver.

The whole of radio, as well as all other mechanical and electrical contrivances, are based on man's ability to convert energy from one form to another. We have but three sources of electrical energy; the chemical reactions of a battery, the water-fall of the mountains. and the natural fuels of the earth. In the first case, we derive electricity directly from the actions of chemicals, in the second we cause failing water to turn the wheel of a turbing which will drive an electric generator for us, and in the last case we burn fuels to boil water that the steam may be used to drive engines and the engines in turn will operate our generators.

Hence the energy operating all electrical devices may be traced back to one of these three sources. The energy in the sound waves emitting from your loud speaker in the form of music comes through long processes of changes from chemicals, fuel-oil, or falling water. Converting from one form to another makes it all possible

For the plate circuit of vacuum tubes in the radio set, we need a steady direct current of various voltages for the difference tubes. This "B" voltage has been supplied by hatterles, but now for the sake of convenience (and convenience only), the public is turning to the "eliminator" devices which function to convert the alternative current used for house lighting to a suitable current for the set. Nothing can be superior

to, or equal, new fresh batteries, but the eliminators are finding a good market and will find a still greater market as they are improved, due to their convenience over battery equipment.

An effort will be made to explain their operation in popular understandable language. We have electricity in many forms. That which is used generally for house lighting is an alternating current: that is, it reverses its direction rapidly flowing first in one direction and then in the opposite direction, repeating this cycle 60 times per second. Hence 120 times in each second the current is at zero. Current in this form is unsuitable for the plate circuits of a radio set, as a loud hum would result. due to the variations in the current. We must have a steady plate current. that the variations produced in it by tite varying voltage of the grid in the tubes will vibrate the loud speaker diaphragm without any other variatious being present to produce undesired noises.

Our problem, therefore, is first to convert the alternating current to one which flows in only one direction, and then to smooth it out so that the pulsations or ripples will not be noticeable. Since we will require more than the original 110 volts of the lighting circuit a transformer is first connected to the leads from the wall-plug. This transformer is so designed that the 110 volts A. C. is stepped up at least twice that amount, still A. C. Now we come to the rectifier, the device which actually changes the A. C. to D. C. It is like one of these turnstile gates that let folks plie through in one direction, but sticks solid when you try to go through the other way.

In the usual B eliminator this turn-(Turn to Page 90)

## Koo-KoO KolyuM

Consular reports show a heavy demand for Con-n Speakers from radio dealers in Palestine.

"RADIO BODY LEFT IN AIR BY SENATE."—Heading in Los Angeles Times. What could be more appropriate?

"Bee-Eliminators" are proving very useful in culling down the flocks on the honey ranches up North.

The Chief is having Dictaphones installed in our offices. Good work, sezwe. What good is short-hand, anyway? Stenographers study it for years and years, and we never knew one yet who could speak a woru of it!

Sign in department store window at Long Beach: "WOMEN'S EVENING GOWNS, 1/3 OFF!"——At last, frankness in advertising!

"ONE and ONE makes TWO
But if ONE and ONE should marry,
'Tis strange, but in a year or so
There's TWO and ONE to carry!"

There's TWO and ONE to carry!"

—As rendered by the "Happiness
Boys," WEAF.

"STATION KOKO BROADCAST-ING ON A WAVE-LENGTH OF 927 GAS-METERS.

"Horace Hairoil announcing. Good evening, folks, how are you this morning? Before going into our regular program we have a few announcements to make. For the benefit of the boys in the Bingville Band, I am requested to announce that the regular Thursday night band practice will be held on Wednesday instead of Monday this week.

"Very sorry to say that our neighboring village of New Ralgia is suffering from a serious fire in the downtown section. The Eureka Pool Hall has just been destroyed, rendering thousands homeless.

"To open our musical program, the National White Lamp-Black Company Orchestra will play the "Refrain From Smoking," after which Isadore Murphy, our popular ten-or-fifteen soloist, will favor you with that fine old Irish ballad, 'He Sald, Get Off My Pool Table, You're Wearing Off the Green.'"

# \$5

Liberal
Allowance
Made On
Your Old
"A" Storage
Battery

## DOWN Puts a

## FFILCO SOCKET POWER

On Your Radio

Continuous
Dependable,
Trouble Free
A and B
Power for
Your Radio



# PHILCO SALES & SERVICE CO.

1514 South Hope St. Phone WEstmore 9065

Phone or Mail Coupon for Free Demonstration in Your Home

| Name    | 4 | - | ٠ | 4 | 4 |   | 4 |   | 4  | 4 |   | 4 |   | • |    |   |   |   |   |   | ٠ | + | • |   |   |   | • | á | 4 | 4 |   |
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## Colonel John F. Dillon Radio Commissioner

By MAJOR LAWRENCE MOTT, Signal O.R.C., U.S.A.

It hath come to my mind, that, mayhap, our very many readers-to whom Colonel Dillon has merely been a mystical sort of person-"The Radio Supervisor at San Francisco"-might like to know something of the man who has been appointed by the President to one of the most important positions of the day-that of "Commissioner of Radio," at Washington. I say . . . "one of the most important positions" advisedly, for the commissioners have a very thorny trail ahead of them, and it is going to take a lot of sheer force of character and hard work . . . to straighten out the terrific mess that maintains in air conditions.

It has been one of the hright spots in my very varied career, all over the world, to have known Colonel Dillon as intimately as my family and I have been privileged to do. Off has he been our guest at my home on our very lovely Island of Catalina, off the Coast of Southern California. He has augled for our great tuna from my fishing cruiser-and brought to gaff a splendid fish of 98% lbs.. rod and reel, of course -his second day out with me. I have been on several little trips with him on the mainland, and under trying, as well as pleasing conditions. Dillon pursued the even tenor of his delightful waysunexcited, unhurried-an officer and a gentleman!

The Colonel's military career has been a splendid one. Briefly: he was all through the Spanish-American war, and —of course—went to Europe with—I believe—the 91st Division, in charge of important signal corps matters. For many years he was in Washington, in his younger days, intimately associated with another great friend of mine, Gen-

eral George O. Squier, for many years the chief signal officer of the Army. Colonel Dillon was with Squier when the latter was working on his now famous "wired wireless" invention.

As radio inspector. Dillon has held the post in Chicago, in Cleveland (if I remember correctly), and, for the past eight years, or more, he has been in charge of the 6th Radio District, comprising California, Nevada, Utah, Arizona. Uncle Sam has never been overly generous in the matter of salary, for the radio inspection staffs, nor in the matter of a sufficient number of officials attached to the various headquar-For instance, Dillon had only two inspectors under him wherewith to cover a HUGE territory-to say nothing of the arduous matter of inspection of ship apparatus in so busy a port as San Francisco. The result was that the good Colonel was on the go . . . all the time, with very little chance for home But I never have known him to complain, or even to "wish" that matters might be better arranged. Colonel is a soldier of the old school! A duty is set before one. DO IT, and with as few words as possible!

Almost painfully exact in all his statements, and always sure of his premises before he makes a statement; kindly, and with a heart brimming over in friendliness and helpfulness to his fellow men, I know of no other man more eminently well equipped to shoulder his part of the heavy load as one of the new radio commission, than Colonel John F. Dillon, Sig. O.R.C., U.S.A.—of whom It has been a great pleasure to write this all-insufficient tribute.

Judging from that which I happen to (Continued on Page 91)

## Picked Out of the Air

By HEARL LA VERN CROWTHERS

Trickery always defeats its own purpose.

Many things are home brewed that cannot be bottled.

The lightning bug is brilliant, but it hasn't any mind.

Habit may become a beast or a divine servant. In either case we are the trainer.

The best golfers affirm that their had shots are forgotten.

Only a goose can walk like a goose. Look what happened to Germany.

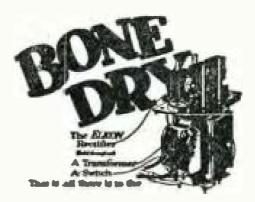
The lion is a beast of selfishness, consequently can never be tamed, only trained.

If your motor isn't running, stepping on the gas won't do a bit of good.

If you tell a lie, multiply it by two, for you have not only lied to the other individual but to yourself.

l'ariety is the spice of life, but too much spice will ruin the best mince pie ever baked—as well as the digestion.

The resultant feeling of having done a good deed is satisfying. The resultant feeling of having done an injury is crucifying.



## ELKON

## NEW 3 AMPERE HEAVY DUTY CHARGER

All of the main features of the Elkon Trickle Charger, but—the new device charges at 3 ampere rate, tapering automatically as the battery becomes fully charged.

No acids, alkali, water, moving parts, tubes or interference.

CONSTANT POWER CONSTANTLY

\$18<sup>50</sup>

Complete

Wholesale Distributors

## YALE RADIO ELECTRIC CO.

LOS ANGELES

1111 Wall Street WEstmore 3351



A couple of Harkness Jans took occasion to jump on us for a reference to their pet set as not being particularly famous for DX snaring in a recent ar. ticle herein. R. E. Stephens of Bard. Colifornia, saya that with a carborun. dum crystal in his, he has long distance and tone quality that is hard to beat. Then comes Sedgwick Wood of Los An. geles with a list that extends from Van. couver to Tia Juana and from the sandy seashore to Salt Lake City. Glad to get a rise out of the Harkness boys, but in the article in question we were talking about REAL DX tother side the Pacific!

#### FROM A LADY BUG

DX Club:

I am always glad to get the Radio Doings, so I can look over all the DX bugs' good luck in locating stations. I am a DX lady bug. I have received my stations on a Stromberg Carlson set, all on the loud speaker except two. Would like to hear from other S. C. owners.

MRS. S. G. MORTON, 3129 Durango Ave., Culver City, Calif.

(Note—Mrs. Norton's list includes 188 stations. Can any other lady bug beat it, or do we award the first prize of a beautiful cast-iron grid leak to Mrs. S. G. M.?)

#### PLENTY R.F.

DX Club:

This may interest DX fans. I have added two more stages of radio frequency to a Bremer Tully Counterphase Power Six using standard BT parts. It makes a three dial receiver but after getting it balanced it is very easy to bandle. I live very near KMTR but have been able to pull in both WHB and WDAF on 365 meters, which indicates the selectivity The set now has five stages of RF.

H. A. EVEREST. 1032 North Ogden Drive. Los Angeles, Calif.

#### A NEW MEMBER

DX Club:

I have been reading your DX correspondence with great interest and wonder of you will admit me as one of your members. I have a Stewart. Warner Model 300 in my home and have been having extraordinary results. While I have been more than pleased with this set, since I have equipped It with one of those DX Grounds I am getting stations that I didn't even know existed. As for distance, I have not seen anything to even equal this set. I read of some fans becoming proud over receiving Chicago and Pittsburgh. while I get those stations regularly. and if I don't get them I know there is something wrong. I am very proud of the fact that I had WOR at Newark. N. J., recently.

Thanking you and hoping you may find room to publish this letter.

J. P. LOUDEN.

5107 Oakland St., Los Angeles.

#### A GOOD COMBINATION

DX Club.

We have had most remarkable results with our trusty old Zenith since installing Gosilco antenna. I did have 4 Australians and 3 Japs before installing the new antenna, but not with the same amount of volume as now. To be conservative, I would judge that I am getting at least 40 per cent more volume.

F. S. HAMILTON, 52 State Street, Willits. Calif.

#### H. H. BROADCASTING

DX Club:

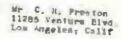
I have a Gilfilan Neutrodyne Model 30. I pick up pretty good distance considering that I have only a 25-foot aerial and water pipe ground. I have picked up clearly on the loud speaker WOW, KOIN, KOIL, KYW, KFOA, KOWW, KFNF, KMOX, KFZD, KOMO, KJR, KLN, WCCO, WHO and others.

HOWARD HUNTINGTON.
Pasadena, Calif.

# The "DX" Radio Ground Amazes. Even the most

Hoter I. A Theres

Glechele, Culif.



Dear Siri

A short lies ago. I merenased one of your D X prounds from Mr wm. Nowley, the Stevent-Farner representative located at Pourt and Vermont Avenue, Los Angeles, and at first I will admit I ame very exeptical as to whether or not the article had any merit, thinking it just "another one of those things" that had been folsted on the ever guilible radio quelic.

I certainly wish to applopize for entertaining such thought on I have more than doubled my eletions, increased the volume on D R, and it has certainly improved the tone quality of my reception.

I gight mention that I am using on Atvater-Lent, model 20 compact and reside in on apper fiet, which made itsisses impossible to obtain a good ground, but now my problem is solved.

Staffing you continued success in your new venture.

Stned-dip.

Bolt I a. Trow

217) West Windsor Road: Glandsle, California.

Long Distance Radio Ground

skeptical

\$800

#### Notice to Dealers

Your oustamers will be asking you about the "DX" Radio Ground, if you liave none in stock you have fost a sale. AND A GOOD PROFIT, Write for our dealors' Proposition NOW.

Radio cuthusiaste who live in flats or apartments will be more than interested in Mr. Traw's experiences with the "DX" Radio Ground. His is just one of the scores of letters from users of this newly perfected ground connection that bear witness to its 100 per cent efficiency.

The "DX" Ground, to put a long story in a few words, will increase volume and selectivity on any radio set, no matter what the make or model. It will being in more and hetter programs, free from the annoying sounds caused by the inefficient water pipe ground. Used on the antenuse post of single dial receivers it will cut down harmonics in a surprising way, bringing the stations in sharply and without background. It's the biggest sight deliars' worth ever offered in the radio field. Ask your desicr shoul it today... If he has none in stock ordered.

## UNGAR & WATSON Inc.

National Distributors -1366 So. Figueroa St. Los Angeles

THE SEROY CO.

Distributors for Na Calif. Oregon & Washington-122 Broadway - Oakland, Calif



#### By CAREY PRESTON RITTMEISTER



"C. P. R."

Before the advent of financial sponsors, it was a struggle to produce well-balanced radio programs of artistic merit and establish a standard for quality and variety. So when a program featuring some star of the cine-

ma constellation with atmospheric music, was promised by Mr. Publicity Director, it was welcomed, and in addition to the picture layouts given the event. advance announcements were broadcast with great eclat. But, alas! too often at the last moment, the star, with surrounding atmosphere, like a comet shot off on location, leaving us to produce within five minutes a program that would get us by! Frantic telephoning! Hurried taxis! Much running about through the building and nearby studios searching for talent, while Uncle John held the microphone with news items or an impromptu reading of a playlet with his assistant.

One day into the studio drifted a modest, hero-worshipping chap, by name, G. Allison Phelps, who, for many moons, had listened on crystal and home-made tube set, to Uncle John. After several trips to KHJ we became acquainted and he asked if we would like to have a program from the Robertson-Cole studios, including the famous Jane Novak. We were a little doubtful of success, but G. Allison was optimistic, and ventured to make the arrangements with Hy Dabb, the publicity man.

The time was set and duly arrived! Five minutes of eight found Mr. Phelps in the studio, a little pale and nervous,

but reassuring; he had just heard from Miss Novak's director, Mr. Johnson; they would be at KHJ just as soon as they could pick up Miss Novak. Then came Hy Dabb, also worried, and he and Allison seemed to be running a relay from studio to elevator and back.

Uncle John began reading news items; he read until exhausted—that is, I mean, until the news items were exhausted. A book of poems was slipped to him and some home philosophy in rhyme slipped out on the air.

At last, after a whispered consultation at the mike, it was decided to proceed with the musical program, hope that Miss Novak would come, abandoned. We always took these disappointments very seriously, for we hated to fall down on our promises.

Suddenly, the studio door burst open, disclosing Mr. Johnson with a lovely blonde girl. Uncle John delightedly cried, "Well, here is Jane Novak! Come here Miss Novak and give an account of yourself!"

A moment's hesitation; she seemed greatly embarrassed, apparently had a case of microphonitis, and Uncle John found it not easy to get her to say something. Questions about the picture she was then making brought timid answers. Then he said, "You must be Scandinavian, Miss Novak," and she replied, "Yes, I am."

It all lasted less than ten minutes, and Miss Novak and her escort hurried away. But we were satisfied, for we had kept our promise to the radio public and they had heard her voice.

But—to paraphrase Harold Isbell and Ethel Barrymore—"That's not all there (Continued on Page 91)

#### An Artist and His Radio

Radio has an ardent admirer in the person of Harrison Fisher, the famous artist who has just returned East after a short stay at the Ambassador Hotel, Los Angeles.

Mr. Fisher has been interested in radio ever since the inception of broadcasting. There was something fascinating about it—something that intrigued



HARRISON FISHER

his imagination in a way that nothing else had ever done except his art.

At the first opportunity, Fisher became the owner of a crystal set. This served him for a time, but when the stations became so numerous that the crystal set no longer separated them, he looked for a set that would fill his desire for more perfect reception.

After hearing the various makes then on the market, he selected the first model Atwater Kent ever built. This set is still in his possession in addition to a new model 30 Atwater Kent mounted in one of the famous "Arm Chair" model Pooley Cabinets.

## MORE DISTANCE

Greater Selectivity
Increased Volume
With the

"DX"

LONG DISTANCE GROUND



No matter what make of Radio you have, or where you are located, you cannot afford to be without this latest Radio Improvement.

**PRICE** 

\$800

Complete Postpaid Anywhere

Shipment Made Same Day Order Is
Received

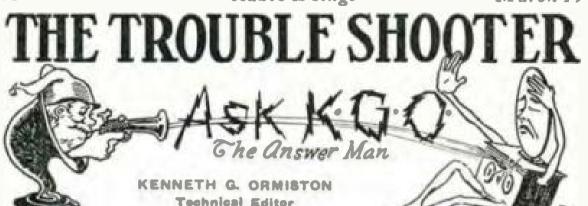
**ORDER NOW** 

## DEXTER SUPPLY Co.

487 Chamber of Commerce Bldg. 1151 South Broadway

WEstmore 9137

Los Angeles



The efficiency of radio circuits can often be considerably increased by paying more attention to the resistance values. While precise values are sought in inductance and capacity in the tuning circuits, the resistance values which are equally as important, are very often overlooked.

The detector grid leak, for example, often is fixed at 2 megohms when i or 3 megs would be better with the particular detector tube, circuit and plate voltage used. Sometimes, 5 megohms may even he the proper value, and will help DX reception considerably, especially in regenerative circuits.

In resistance coupled amplifiers, the values considered standard may be improved upon by a little experimenting, as they vary with tubes and plate voltages. The grid leak for the last tube may be cut to .1 megohm instead of the usual .25 megohm in some cases. And when using a high impedance type of detector tube with low plate voltage the first plate resistor, usually given as .1 megohm may be changed to 10,000 ohms with improvement.

The writer is simply suggesting that in careful selection of the resistance values in your circuits there is a chance of improving your results.

Another question: What are the ad. vertised "automatic control switches?"

This device is intended to permit the filament control switch on the radio set to control the various switching of connections necessary when a B socket-power unit, and A battery with trickle

charger are used. When the set is turned on, it is necessary to connect the B socket power apparatus to the lighting circuit, and disconnect the trickle charger from the 110 volts. Rather than do this switching with switches located on the socket-power unit or charger, the automatic switch is so arranged that the simple turning on or off of the usual filament switch on the radio set results in an automatic switching in those other circuits.

It is constructed somewhat like a telegraph relay. The electromagnet is actuated by the filament A battery current. When the filament switch on the set is turned on, the A battery current flowing from the battery to the set magnetizes the Iron core in the automatic switch. A movable arm is attracted to the core, and in its motion closes a pair of contacts which connectes the B aliminator to the juice, and disconnects the trickle charger. When the set is turned off and the movable arm is released because of the demagnetization of the core, the eliminator is automatically disconnected and the trickle charger goes back to work boosting the A battery.

Regarding the use of the 199 type of tube with excessive B voltage, lack of C voltage, etc.:

The UX-199 and CX-299 tubes should never be used with more than 90 volts of B potential. Nor should they be used with more than 67% volts without C

(Continued on Page 21)

#### The Girl on the Cover June Parker, Blues Singer

Untold thousands have heard Miss June Parker over the radio, but few have seen her or her picture.

Her melodious, low-pitched voice, which is especially adapted for the Blue and ballad type of singing, has brought much joy and pleasure to the people of radioland.

The radio fans of this country can thank Mr. Les Tauffenbach, president of Western Radio, Inc., for making it possible for them to hear Miss Parker.

At a party at his house, a little over a year ago, Miss Parker was playing and singing some of the latest popular pieces. Her voice and manner of rendition was so pleasing that Les suggested that ahe perform for the vast radio audience of the West. After much persuasion, Miss Parker agreed. Miss Parker has had remarkable success at every performance. She first started to broadcast over KHJ, the Times, then she broadcasted for a period from KFWB, Warner Bros., and now she is a regular performer at Station KMTR, Hollywood.

We like Miss Parker's selection of pieces and the quality of her voice, so we hope that she will be a consistent radio performer for a long time to come.

## Trouble Shooter (Continued from Page 30)

battery. At zero grid bias there is no increase in mutual conductance above 67½ volts B potential, and hence no advantage in using greater B voltage unless C battery is also used. Furthermore the increased electronic emission ruins the tube. •Bear this in mind if you would preserve the full useful life of these tubes.

## STROMBERG-CARLSON



at

# The Radio Art Studio

"A Perfect Setting for A Perfect Set"



Authorized Dealer

### Stromberg-Carlson

3831 Wilshire Blvd.

Between Western and Manhattan
Phone WAshington 4095
Open Evenings Until Nine

## The Superheterodyne Intermediate Frequency Transformer

By N. E. BROWN, I. R. E., A. S. M. E., A. I. E. E.

(Editor's Note.—The following article is of special interest to super-heterodyne set constructors who desire information relative to the intermediate frequency

transformers.)

There is a great deal of talk, pro and con, as to the relative marits of the usual high frequency amplifier, such as the radio stages preceding the detector in the usual peutrodyne type of receiver, and in the superheterodyne. who are "agin" the latter are among those who have not used a really good superhterodyne long enough to know Its great merit, and the writer believes the fact that the big outstanding radio engineers select this type of receiver for their intricate field work in their studies of the mechanism of radio transmission should be enough to put the stamp of superlority on the superbeterodyne until some more effective system can be evolved.

The big drawback in the usual R. P. amplifier, which is made to cover the broadcast band by tuning, is that this large variation in operating frequency decreases the capacity reactance of the tube and winding elements rapidly with the increase of frequency while the inductive reactances increase, throwing any correct relations for one frequency The amplifier badly out for any other. of the superheterodyne obviates this by working the amplifier constantly some predetermined frequency for which the constants can be so proportioned as to produce those optomum relations between total amplification, or gain, and selectivity that locality and the needs of the particular altuation demand.

Some authorities favor only two intermediate stages of amplification (three transformers total) making the transformers of a higher gain per stage with the resultant increased sharpness of funing while others advocate three intermediate stages, and while it is possible to get nearly the same result in both cases, it is generally thought by those who have had a deal of experience in the matter that cutting down the amplification per stage and increasing the stages, is good engineering; at least until some simpler and more effective method of controlling regeneration in these amplifiers is devised.

It is an axium that if these amplifiers are not worked so as in take maximum

advantage of the regenerative attribute, or if regeneration is not controlled, they are of little value. In order to make this type of amplifier effective in connection with a broadcast receiver the signal which is desired is first passed. through a frequency changer, which consists of a variable frequency oscillator in combination with a "mixer tube," usually called the first detector. The relation between the frequency of the oscillator and the particular wave-length or frequency of the signal which it is desired to amplify, is such as to give the frequency of the infermediate transformers us a remainder, and, of course, there can be two values of the oscillator, which will satisfy this equation, one being higher and one being lower than These two the signal being received. oscillator settings for the same station are often referred to as the "sum and difference settings," but this stalement is in error, for both are different settings, whereas, the sum setting gives another frequency always higher than the signal frequency, which is the one used in the infradyne, a heterodyne of special type.

In order to get a more definite mental image of just what is going on in the intermediate amplifier of the superheterodyne let us imagine it is desired to set up four slits, or round openings would be better, so that we might look through them all clearly; of course it will be necessary that the centers of these round openings shall all be in a straight line if the largest field possible is to be observed. That is the same as saying the resonant frequency of all the transformers used in such an amplifier should all he the same; 40 kilocycles, 60 kilocycles or whatever is chosen, but as it will be clear that if the round holes are staggered a little the size of the view, or field, as seen by the eye through these staggered openings will be reduced, so also will the band of frequencies be narrowed by the use of the transformers whose resonant frequencles are unlike. Now this might leave the impression that the staggering of

(Continued on Page 92)

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### SUNDAY TIME TABLE

ALL TIME TABLES ADJUSTED
TO PACIFIC TIME
(X) Indicates Station Is On the Air

|      | 0-12<br>L.M. |       |             | 12-<br>P.N |     | 1     | 1    | 2-4<br>P.N |     | 1   |            | 4-<br>P.I  | 6<br>M.    | 0.7        |       | S  | TATI                 | ONS            | 1         |           | 8<br>M,    |            |                | 8-1<br>P.1 |     |       |       | 10-<br>P.1 |             |
|------|--------------|-------|-------------|------------|-----|-------|------|------------|-----|-----|------------|------------|------------|------------|-------|--|----------------------|----------------|-----------|-----------|------------|------------|----------------|------------|-----|-------|-------|------------|-------------|
|      | 90           | 30-12 | 12 00-12 30 | 8          | - 0 | 7 - 7 | 9 9  | 100        | 8   | =   | 4 00- 4 30 | 4 30- 5 00 | S 00- 6 30 | 5 30- 6 00 | CALL  | Wave Length<br>Motors  | Power in<br>Watte    | STATION        | 6 00-6 30 | 6 30 7 00 | 7 00- 7 30 | 7 30- 8 00 |                |            | g   | 30-10 | 00-10 | 200        | 11 00-11 30 |
|      |              |       | Т           |            |     | Т     | Ξ    |            |     |     | Ε          |            | SO         | U          | THERN | CA   |                      | FORNIA         |           |           |            |            |                |            |     |       |       |            |             |
| -    | 1.           | 1.    | L           |            | -1  | -1    | XI.  | X          | XI. | X   |            |            |            |            | KELW  | 560  | 250                  | Burbanic,      | 1         | -         | -          |            | 1              |            | -1  |       | -     | -1         |             |
| T    | X            | X     |             |            |     | -1    | -1   | 1          | .1  | 1   |            |            | X          | X          | KGEF  | 517  | 1000                 | Los Angelos    | 1         | 1         | -          | X          | X              | X          | X   | X     |       | -          | -1          |
| XI Z | K   X        | X     | 1 -         |            | -1  | T     | 1    | X          | X   |     | 0          |            | -          |            | KFI   | 467  | 4000                 | Los Angeles    | IX        | X         | X          | X          | X              | X          | X   | X     | X     | XI         | -1          |
| -1.  | . [          | 1 =   | X           | XI         | -1  | -1    | -1   | 1          | 1   |     |            | -          |            |            | KFCR  | 1 413  | 50                   | Santa Barbara  | 1         | 1         |            |            | X              | X          | -1  |       |       | -1         |             |
| X)   | X X          | X     | X           | 1          | -1  | -1    | 1    | -1         | . } | i   |            |            | -          |            | KHJ   | 405  | 500                  | Los Angeles    | 1         | 1         | X          | X          | X              | X          | X1  | X     | -1    | -1         | -1          |
| 1    | - X          | X     | 1 -         |            | -1  | -1    | -Î   | -1         | -1  |     | - 1        | -          |            | -          | KMIC  | 327  | 500                  | Inglewood.     | T         | 1         | X          | X          | X              | A          | I   |       | [     | . 1        | -1          |
| -1   | - 1          |       | 0           | LeT        | T   | 1     | -    |            | -1  |     |            |            |            |            | KFBC  | 380  | 50                   | San Dlego      | 1.        | 1 -       | X          |            |                |            | -1  | 1     |       | -1         | -1          |
| 1    | -1           | 1     |             |            | -1  | T     | 1    | 1          | -1  |     |            | 10         |            | X          | KMTR  | 370  | 500                  | Hollywood .    | IX        | X         | X          | X          | X              | X          | X   |       |       |            | -1          |
| KI : | -            | X     |             | 1          | -1  | 1     | XI : | X          | X   | X   | X          | X          | -          | -          | KNX   | 337  |                      | Los Angeles    | 10        | X         | X          | X          | X              | X          | . [ | 1     | -1    | -1         | -1          |
| -    | K   X        | 1     | 1           |            | -1  | 1     | 1    | 1          | - 1 | -   | - 1        |            |            |            | KPSN  | 318  | 1000                 | Pasadena,      | X         | X         |            |            |                |            | - [ |       | 1     | -1         | -           |
| Cj.  | ,            | _     |             | -1         | -1  | 1     | 1    | -1         | -1  |     | X          | X          |            |            | KFWC  | 295  | 200                  | San Bernardino | 1         | [ -       |            |            |                |            | X   | X     | X)    | Xż         | XI          |
| 13   | K   X        | X     | ] X         | -1         | -F  | - 1   | -1   | - [        | X   | X   | 1          |            |            | _          | KTBI  | 294  |                      | Los Angeles    | 1X        | X         | X          | X          | X              | X:         | X.  |       |       | -1         | -1          |
| E    | X X          | X     | X           | 1          | -1  | L     | 1    | X[         | XI. | X   | X          |            |            |            | KFSG  | 275  | CONTRACTOR OF STREET | Los Angeles    | 1         | X         | X          | X          | X              | X          | X   |       | X     | X)         | _[          |
| 1    | . [          |       |             | I I        | 1   | - (   | ol.  | -1         | .1  | 1   | d          |            |            |            | KWTC  | 263  | 250                  | Santa Ann      | 1         | X         | X          |            |                |            | -1  |       |       | -1         | -1          |
| 1    |              | 1     |             |            | 1   |       | X:   | X          | -1  |     | -1         | LC.        | -          |            | KFWB  | 252  |                      | Hollywood      | 1         |           |            |            |                | X          | X1  | X     | X     | X          | -1          |
| -    | 1            | 1     |             | -          | -1  | 1     | -1   | -1         | X   | XĮ  | -          |            |            |            | KFSD  | 244  | 1000                 | San Diego      | 1         | 1 -       |            | -          |                |            | 1   |       |       | - 1        | -1          |
|      | K   X        | X     |             |            | -1  | 1     | -1   | -1         | -1  | -1  |            |            | X          | X          | KNRC  | 238  | 1000                 | Santa Montes.  | [X        | X         | X          | X          | X              | X          | X}  | X     | X     | X.         | -1          |
| 1    | . I X        | X     | X           | -1         | 1   | X     | XL.  | XI         | X   | X   | X          | X          | X          | X          | KFON  | 233  | 750                  | Long Beach     | X         | X         | X          | X          | X              | X          | X)  | X     | X     | XI         | X           |
| 13   | K  X         | X     | X           | 1          | -1  |       | -1   |            | 1   | 1   |            |            | 1          |            | KPFC  | 229  |                      | Fasaciena.     | 1         | X         | X          | X          | X              | -1         | 1   |       | -     |            | -1          |
| 1    | 1            | Î     |             | 1          | 1   | 1     | 1    | eI.        | -1  | -1  | -1         |            |            |            | KFQZ  | 228  |                      | Holly wood     | 1         |           | -          |            | X              | X,         | X   | X     | X:    | X          | I           |
| 1    | 1            | 1     |             | X          | XI  | 1     | -1:  | -1         | -1  |     | -1         |            | X          | X          | KFWO  | 211  |                      | Catalina       |           | X         |            |            |                | -          | X   | X     | 1     | -1         |             |
| 1    | 1.           | 1     |             | - 1        | 1   | 1     | 1    | - [        | 1   | 1   | -1         |            |            |            | KFYD  | 205  |                      | Venice         | 1×        | X         | X          | X          | X              | X          | X   | X     | X     | X          | X           |
|      |              |       |             |            |     |       |      |            |     |     |            | 1          | NC         | R          | THERN |  | _                    | FORNIA         |           |           |            |            |                |            |     |       |       |            |             |
|      | -            | 4     |             |            | I   | 1     | 1.   | X1         | X)  | X   | X          |            |            |            | KPO   |  | -                    | San Francisco  | IX        | X         | X          | X          | X              | X          | XI  | X     | X!    | X!         | X           |
| L    | _            | X     |             | X          | X   |       | 1    | 1          | 1   | 1   |            |            |            |            | KYA   | Street, Street,  | -                    | San Francisco  | 1         |           |            | X          | X              | X          | 1   |       | -1    |            |             |
| L    | X            | -     | -           | - [        | -1  | 1     | 1    | XI         | X!  | _   | X          |            |            | _          | KGO   |  |                      | Oakland        | 1         | X         | X          | X          | X              | X          | X   | X     | 1     |            | -1          |
| 1    |              | _     | X           | -1         | -1  | 1     | 1    | -1         | -1  | -1  | - 1        | -          |            | _          | K Q W | 333  | -                    | San Jose       |           |           |            | X          | X              | X          | X)  |       |       | -1         | - 1         |
|      | K X          | X     | X           | -1         | -1  | -1    | -1   | 1          |     | _ ļ |            |            |            | _          | KTAB  |  |                      | Oakland.       | L         | 1         |            | X          | X              | X          | 1   |       |       | -1         | 의           |
| 1    | -            | 1     |             |            | 1   | 1     | al   | -1         |     | -1  |            |            | X          | X          |       | 268  |                      | San Francisco  | IX        | X         | X          |            | X              |            | 1   |       |       | . ]        |             |
|      | . X          | X     |             |            | : 1 | 1     | 1    | -          | 0   | 1   | =1         |            | -          |            | KFUS  | 256  |                      | Dakland.       | 1         |           |            | X          | X              | A          |     | 0     |       | -          | -           |
|      | KI -         | 1     | (3)         |            | 1   | 1     | E    | 1          | 1   | 1   |            |            |            |            | KRE   | 258  |                      | Berkeley       | 1         |           |            |            |                |            |     |       |       | 0          |             |
| 1    | 1            | 1     |             |            | XI. | ĮX.   | X[   |            | _1  | _   |            |            |            |            | KFWI  | 250  |                      | San Francisco  | _         | X         | X          | X          | X              | X          | X   | X     |       |            |             |
|      |              |       |             | _          |     |       |      |            |     | N   | _          | _          | Ш          | _          |       |  |                      | ERN STATE      | S         |           |            |            |                |            |     |       |       |            |             |
| 13   | CX           | X     | X           | -1         | -1  | 1     | 1    | -1         |     | 1   |            |            |            |            | KGW   | OR THRONING BEI  | -                    | Portland.      | T         | 1         |            |            |                |            |     |       | -1    |            |             |
| 1    | 1            | 1     |             | -1         | -1  | 1     | -1   | 1          | XI  | X   | X          | X          | X          |            | KEX   | 1  | -                    | Portisnd       | IX        | X         | X          | X          | X              | X          | X   | X     | X     | X          | X           |
|      | ( X          |       |             | 1          | -   | 1     | 1    | -1         | -1  | -   |            | -          |            |            | CFAC  | 2  | -                    | Calgary        | 1         |           | -          |            |                | -1         | - 1 | 3     | (4)   | 4          | -1          |
| 1    | 1 1          | X     |             | -1         | -1  | 1     | 1    | -1         |     | _1  |            |            |            |            | KJR   | -  |                      | Seattle.       | 1         | 1         | +          |            | -              | X          | X   | X     | X     | X          | 20          |
| 1    | 1            | 1     |             |            |     | 1     | 1.   | -1         | -1  | 1   |            |            |            |            | KLZ   |  |                      | Denveil        | 1.        | X         |            |            | X              |            | -   |       | 1     | -1         | - 1         |
| 1    | C) X         | 1 X   | 1           | -1         | -1: | 1     | -1   | -T         | 1   | 1   | 1          | X          | X          | -          | KOA   | 1  |                      | Danver.        | 1         | -         |            | X          | A Committee of |            |     |       | -     | - 1        |             |
| 1    | 1            | 1     | -           | -1         | -   | 1     | -1   | -1         | -1  | -   | 1          |            |            |            | KOIN  | The same of the last   | -                    | Portiand.      | -         | X         |            | -          | -              | X          |     |       |       | . 1        |             |
|      | -            | X     | X           |            |     |       | 1    | -1         |     | _   | 1          |            |            |            | KOMO  | The Party of the P | The same of          | Seattle .      | IX        | X         | X          | X          | 8              | -          | X   | X     | - 1   | . ]        | -           |
| 11 3 |              |       |             | - 1        | XI: | X     | 4    | -          | 1   | 1   | 1          | -          |            | _          | KSL   |  |                      | Salt Lake City | 11        | 1         | -          | X          | X              | X          |     |       | 1     |            | -           |
| 11   | C X          | X     | - 1         |            | -1  | -1    | 1    | -1         | 1   | -   | - [        | -          |            |            | KMO   | 250  | 500                  | Tacornia       | X         | X         | -          |            | 14             | -          | 01  |       |       | -1         |             |

Hours Shown as Submitted by These Stattons. For DX Schedule See Page 46

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## MONDAY TIME TABLE ALL TIME TABLES ADJUSTED TO PACIFIC TIME (X) Indicates Station is On the Air

|          | 10-<br>A.I          | 12<br>M.                                  |          | Г        |         | +2<br>M. |   | Г          | 2-<br>P.I |          | d                                       |            |          | -6<br>M.                              |                                       |   |  | s   | TATI   | ONS   | T   |   | -8<br>.M.                               |             | 1                                     | 8-<br>P.                              |   |                                       |           | 10-<br>P.I |          |
|----------|---------------------|---|----------|----------|---------|----------|---|------------|-----------|----------|---|------------|----------|---------------------------------------|---------------------------------------|---|--|---|--|---|---|---|---|-------------|---------------------------------------|---------------------------------------|---|---------------------------------------|-----------|------------|----------|
| DC 01-00 | 30-11               |   | 30-12 00 | 00-12 30 | 30-1.00 | 00-1-30  |   | . 00- 2 30 | 30- 3 00  | 00- 3 30 | 30-4                                    | 4 00- 4 30 | 30- 6 00 | 8 -90                                 |                                       |   | CALL   | Wave Length<br>Meters   | Power In<br>Welts  | STATION   | 00-6.30   | 8 30 7 00-                              |   | 7 30- 8 00  | 8 00- 8 30                            |                                       | 8 -9  | 0 30-10 00                            | 00-10     | 30-11      | 00-11-30 |
| 2        | 2                   |   | Ξ        | 2        | 12      | 200      | - | C.         | 2         | 100      | (T)                                     | IA         | 4        | 60                                    | (C)                                   | (Dy)  | UCDA   |   |  | CADATA  | 0   | 80                                      | _                                       | 1           | _                                     | -                                     | - 1   |                                       | 2         | 9          | =        |
| -        |                     |   |          | ,        |         |          |   |            |           |          | L                                       |            | _        | SU                                    | JU                                    | -   | HERN   | 500   |  | FORNIA BUTBANK  | TX  | X                                       | r W                                     | 1 %         | X                                     | . 47                                  | W.  | 30.1                                  |           |            |          |
| X        |                     | X   | 1        | IX       | X       |          | - | -          | -         | 1        | 1                                       |            | 1 -      | 1                                     | I W                                   | _   | FI   |   | 2  | Los Angeles   | XI.   |   | _                                       | X           |                                       | -                                     | X   | X                                     |           | X i        | -        |
|          |                     | -   |          | X        |         |          | ( |            | 1         |          | 1                                       |            | 1 *      | 1                                     | 1                                     | -   | FCR  | 413   |  | Santa Bartiara  | 1   | 1 .                                     | 1                                       | X           |                                       | 1                                     | -   |                                       |           |            |          |
| -        |                     |   |          | 1        | 1       |          |   | 1          | 1         | 1        | 1                                       | 1          |          | 1                                     | X                                     | -   | MIC  | 389   | Ten-   | boowshift   | ix  | X                                       | X                                       | -           |                                       | X                                     | X   | X                                     |           |            |          |
|          |                     |   |          | X        | X       | 1        |   | 1          | 1 .       |          | 1                                       | 1          |          |                                       | -                                     | -   | FBC  | 300   | -  | San Orego   | 1.  |   | 1 .                                     | 1           | X                                     | X                                     | X.  | X                                     | 1         | - 1        | 4        |
| 1        |                     |   |          | IX       | X       | X        | X | IX         | X         | X        | X                                       | 1 X        | A        | X                                     | X                                     | IK  | MTR  | 370   | 500  | Hallywood   | 1 X   | X                                       | X                                       | X           | X                                     | X                                     | #1  | 南                                     | X         | X          | 0        |
| C        | X                   | -   |          | X        | X       | X        | X | X          | X         | X        | 1 X                                     | 1 X        | X        | (X                                    | X                                     | ĮΚ  | NX   | 337   | 750  | Lus Angeles   | 1 X   | X                                       | X                                       | X           | X                                     | X                                     | X   | X                                     | X         | X          | X        |
|          |                     |   |          | X        | X       |          |   | 1          | 1.        | ١        | 10                                      | 1          |          | 1                                     | 1                                     | ∦K,   | GER  | 326   | 100  | Long Beach  | JX  | X                                       | ( X                                     | j X         |                                       | a.1                                   | -1  | . ]                                   | 1         | . 1        |          |
|          |                     | -   |          | X        | 1       |          |   | 11         |           |          | 1                                       | 1          |          | 1_                                    |                                       | K   | PSN  | 316   | Tutte  | - Pasadena  | IX  | X                                       |   |             | [X]                                   | X.                                    | XI  | - 1                                   | -1        | -1         |          |
|          |                     |   |          |          | i .     |          |   |            | 1         |          | 1                                       | 1          |          | j.                                    | 1                                     | -   | YH   | _   |  | Insunterey, Nea.  | 1 X   | į X                                     | X                                       | X           | [X                                    | -1                                    | -1  |                                       | .         | -1         | ,        |
| 1        |                     |   | 3        | X        | X       | X        | X | X          | X         | X        | (X                                      | -          | -        | X                                     |                                       | -   | MB   | 301   | _  | Tim Juana, Mex  | 1   |   | -                                       | -           |                                       | 0                                     | 1   |                                       | -         | .1         |          |
| 1        | 0                   | -0  |          | X        | I X     |          | - | 1 -        | ( **      | -        | 2                                       | X          | X        | X                                     | X                                     |   | FWC  | 295   | -  | San Bernardino  |   |   | -                                       | -           | X                                     | X                                     | X   | X                                     | X         | X.         | X        |
| J        | =                   | -   |          |          |         |          |   | X          | A         |          |   |            | -        | -                                     | !                                     | B   | TBI  | 294   | -  | Los Angeles   |   |   | X                                       | -           | X                                     | X                                     | B .   |                                       |           | -1         | -        |
|          |                     | -   |          |          |         |          |   | -          | - 1       | 1        | 1 -                                     | 6.         | -        | 1                                     | -                                     | 4   | SMR  | 283   |  | Santa Maria   | -   | A                                       | X                                       | X           | X                                     | X                                     | X   | X                                     | - 1       | -1         |          |
| J        | - 1                 | -   | -        |          |         |          |   | -          |           | -        | 1 -                                     | -          |          | 1 9                                   | -                                     | -   | WIC  | 263   |  | Santa Ana   | 1   | X                                       | X                                       |             |                                       | -                                     |   |                                       | <br>      | -          | -        |
| 1        |                     | 4   |          |          | A       | Δ        |   | 1          |           | 4        |   | -          |          | -                                     |                                       |   | FSD  | 252   |  | San Olego   | X<br>  X  | -                                       | X                                       | -           | 쒀                                     | X                                     | X   | A                                     | A         | XI         | ,        |
| 1        |                     |   |          |          | 1       |          |   |            | 31        |          | 1                                       | X          |          | 1 1                                   |                                       | -   | NRC  | -   | -  | Santa Menica  | IX  | X                                       | X                                       | -           |                                       | X                                     | X   | X                                     | A         | A!         | -        |
| 1        | X                   | X   | X        | l X      | X       | X        |   | 1          | 5 I       | -        | -                                       | X          | -        | X                                     | 9 92                                  | K   | FON  | 233   |  | Lung Beach  | IX  | X                                       | X                                       | -           | X                                     |                                       | X   | 4                                     |           | Y          | X        |
| 1        | <b>M</b> 1          | ^   | ~        | I X      | X       | ~        |   | 4 -        | 1 - 1     |          | 1                                       | -          | -        | 10                                    | 1                                     | IK  |  | 226   |  | Hollywood   | IX  | 1                                       | X                                       | 9           | X                                     | X                                     | X   | A.                                    | X         | XI         | -        |
| 9        | - 1                 |   | -        | 4        | 1       |          |   |            |           |          | 1                                       |            |          |                                       | _                                     | -   | GFH  | 219   |  | La Crescenta.   | 1   |   |   | 7           | X                                     | -                                     | XI  | X                                     | -         | -1         | ď        |
| 1        |                     |   |          |          |         |          |   |            |           |          | L                                       |            |          |                                       | -                                     | -   |  | 214   | -  | Oxnard, Cal.  | IX  | 1                                       |   |             |                                       |                                       | 1   |                                       |           | - 1        |          |
|          |                     |   | -        | -        | -       |          |   | -          |           |          |   |            |          | 1                                     | -                                     | pe.   | FID  | 205   |  | Ventee  |   | X                                       | X                                       | X           | P                                     | X                                     | XI  | XI                                    | X         | WI         | ¥        |
|          |                     |   |          |          | -       |          |   | 9          |           |          | 4                                       |            |          | -                                     | -                                     | 7.  |  | FOR   | pun  | Apple   | - 12  | -                                       | 100                                     | 1           | -71                                   |                                       | ~   | n                                     | 2         | A          | n        |
|          | -                   |   |          |          | -       | - 4      |   |            |           |          | 4 4                                     |            |          | NE                                    |                                       |   | HERN   | -   |  |   | 1^  |   |   | , ,,        |                                       | -                                     | ~   | n                                     | ~         | A          | _        |
|          |                     |   |          |          |         |          |   |            |           |          |   |            |          | NE                                    |                                       | 71  | HERN   | -   | (LJ)   | FORNIA<br>Sagramento  | IX  |   |   |             |                                       |                                       | AT.   | X                                     |           | A          | _        |
|          |                     |   |          |          |         |          |   |            |           |          |   |            |          | NE                                    | )R                                    | 11<br> K  | HERN   | C/  | 199  | FORNIA  |   |   |   | X           |                                       | XI                                    | XI<br>XI  | X                                     |           |            |          |
|          |                     |   |          | i X      |         | X        | X |            |           |          | 1 1                                     | X          | i X      | NE                                    | DR'                                   | 71<br> K<br> K  | HERN   | C/<br>535<br>598  | 190<br>500   | FORNIA<br>Sporamento  |   | I R                                     | X                                       | X           | X                                     | XI                                    | XI.   | XIXI                                  | i i       | A)         |          |
|          | X                   |   |          | X        | X       | X        | X |            |           |          | 1 1 1 1                                 | X          | i X      | NC                                    | DR'                                   | TI<br>k<br>jk   | HERN<br>FBR  | CA<br>535<br>508<br>428   | 190<br>500<br>1000   | FORNIA Sporamento Oakland   | IX<br>I.  | I R                                     | X                                       | X           | X                                     | XI                                    | XI<br>XI  | XIXIX                                 | A X       |            |          |
|          | X                   |   | X        | i X      | -       |          | - |            |           |          | 1<br>1<br>1 X                           | X          | X        | NC                                    | )R'                                   | TI<br>IK<br>IK<br>IK  | HERN<br>FBK<br>LX<br>PO  | C/<br>535<br>508<br>428<br>400  | 190<br>500<br>1000   | FORNIA Sacramento Oakland San Francisco   | IX<br>I.  | X                                       | X                                       | X           | X                                     | XI                                    | XI<br>XI  | X                                     | . <br>  X |            |          |
|          | .  <br>  X  <br>  - |   | X        | I X      | -       |          | K |            |           |          | 1 1                                     | X          | X        | NC<br>  X                             | )R'                                   | TI<br>IK<br>IK<br>IK<br>IK  | HERN<br>FBR<br>LX<br>PO<br>YA  | C/<br>535<br>508<br>428<br>400  | 190<br>500<br>1000<br>1000<br>4000   | FORNIA Sporamento Oakland   San Francisco   San Francisco   | X     X   | X                                       | X                                       | X           | X                                     | XI<br>XI<br>XI                        | XI<br>XI  | X                                     | . <br>  X |            |          |
|          | X1                  |   | X        | I X      | -       |          | K |            |           |          | 1                                       | X          | X        | NC<br>  X                             | X                                     | TI<br>IK<br>IK<br>IK<br>IK<br>IK  | HERN<br>FBR<br>LX<br>PO<br>YA<br>GO  | CA<br>535<br>598<br>429<br>400<br>381<br>333  | 190<br>500<br>1000<br>1000<br>4000<br>500  | FORNIA Sporamento Oakland  San Francisco  San Francisco  Uakland  | X     X   | X                                       | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X           | X                                     | XI<br>XI<br>XI                        | XI<br>XI  | X                                     | . <br>  X |            |          |
| 1        | - 1                 |   | X        | X        | X       |          | K |            |           |          | 1 1                                     | X          | X        | X                                     | X                                     | TI<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K  | HERN<br>Fak<br>LX<br>PO<br>YA<br>GO<br>QW  | CA<br>535<br>598<br>429<br>400<br>381<br>333  | 190<br>500<br>1000<br>1000<br>4000<br>1000<br>500  | Separamento  Oakland  San Francisco  San Francisco  Uakland  San Jone  Oakland  San Jone  Oakland  San Francisco  San Jone  Oakland  San Francisco  San Francisco  San Francisco  San Francisco  San Francisco  San Francisco   | X<br>  X<br>  X<br>  X<br>  X   | X                                       | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X     X | X                                     | XI<br>XI<br>XI                        | XI<br>XI  | XI<br>XI<br>XI<br>XI                  | . <br>  X |            | 31       |
|          | - 1                 | Xi Xi                                     | X        | X        | X       | X        | K |            |           |          | 1 X X                                   | X          | X        | X                                     | X                                     | TI<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK                        | HERN<br>FBR<br>LX<br>PO<br>YA<br>GO<br>QW<br>1 AB                                      | CA<br>535<br>598<br>428<br>400<br>381<br>333<br>203   | 190<br>500<br>1000<br>1000<br>4000<br>500<br>1000<br>500   | FORNIA Secremento Oakland   San Francisco   San Francisco   Uakland   San Jore   Oakland   San Francisco   Berkeley   | X<br>  X<br>  X<br>  X<br>  X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X                                     | X X X X X X X X X X X X X X X X X X X | X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:                              | XI<br>XI<br>XI<br>XI<br>XI<br>XI      |           |            | )<br>)   |
| Ì        | - 1                 | -   | X        | X        | X       | X        | K |            |           |          | 1                                       | X          | X        | X                                     | R'                                    | TI KKKKKKKKK  | HERN<br>FBR<br>LX<br>PO<br>YA<br>GO<br>QW<br>1AB<br>FRC<br>RE<br>FWI                   | CA<br>535<br>598<br>429<br>400<br>381<br>333<br>303<br>268<br>256<br>256  | 190<br>500<br>1000<br>1000<br>4000<br>500<br>1000<br>500<br>1000   | Secremento  Oakland  San Francisco  Uakland  San Jone  Oakland  San Jone  Oakland  San Francisco  Berkeley  San Francisco   | X<br>  X<br>  X<br>  X<br>  X   | X   X   X   X   X   X   X   X   X   X   | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X           | X                                     | X X X X X X X X X X X X X X X X X X X | XI<br>XI  | XI<br>XI<br>XI<br>XI<br>XI<br>XI      |           |            | )<br>)   |
| Ì        | - 1                 | -   | X        | X        | X       | X        | X |            |           |          | 1                                       |            | X        | X   X   X   X   X   X   X   X   X   X | DR'                                   | TI<br>KKKKKKK<br>KKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN<br>FBR<br>LX<br>PO<br>YA<br>GO<br>QW<br>1 AB<br>FRC<br>RE<br>FWI<br>ZM            | CA<br>535<br>598<br>429<br>400<br>381<br>333<br>303<br>268<br>256<br>250<br>240   | 199<br>500<br>1000<br>1000<br>4000<br>500<br>1000<br>500<br>100<br>100   | Sporamento  Oakland  San Francisco  San Francisco  Uakland  ISan Jone  Oakland  ISan Francisco  Barkeley  San Francisco  Oakland  | X   | X                                       | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X           | X                                     | X X X X X X X X X X X X X X X X X X X | X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:                              | XI<br>XI<br>XI<br>XI<br>XI<br>XI      |           |            | X        |
|          |                     | X   | X        | X        | X       | X        | X |            |           |          |   |            | X        | X   X   X   X   X   X   X   X   X   X | DR'                                   | TI<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK<br>IK                  | HERN FUN PO YA GO QW TAB FRC RE FWT ZM   | CA<br>535<br>598<br>428<br>400<br>381<br>333<br>303<br>268<br>256<br>250<br>240   | 190<br>500<br>1000<br>1000<br>4000<br>500<br>1000<br>500<br>1000<br>500<br>1000  | FORNIA Sacramento Oakland San Francisco (San Francisco Uakland, (San Jone, Oakland, (San Francisco, Berkeley, San Francisco Oakland   | IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX  | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X   X   X   X   X   X   X   X   X   | X           | X                                     | X   X   X   X   X   X   X   X   X   X | X   X   X   X   X   X   X   X   X   X   | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          | - 1                 | X   | X        | X        | X       | X        | X |            |           |          | N                                       |            | X        | X   X   X   X   X   X   X   X   X   X | DR'                                   | TI<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K<br>K | HERN FUN LX PO YA GO QW TAB FRC RE FWT ZM GW   | CA<br>535<br>598<br>429<br>400<br>381<br>333<br>303<br>268<br>256<br>250<br>240   | 190<br>500<br>1000<br>4000<br>4000<br>500<br>1000<br>500<br>1000<br>700  | FORNIA Sacramento Dakland San Francisco (San Francisco Uakland, (San Jose) (Oakland (San Francisco) Berkeley San Francisco Dakland ERN STAT (Portland)  | IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX  | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X                     | X   X   X   X   X   X   X   X         | X1<br>X1<br>X1<br>X1<br>X1<br>X1<br>X1<br>X1                                    | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X   | X        | X        | X       | X        | X |            |           |          | 1 1 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |            | X        | X   X   X   X   X   X   X   X   X   X | DR'                                   | TI<br>KKKKKKK<br>KKKKK<br>KN  | HERN FUN FUN FUN FUN FUN FUN FUN FUN FUN FU  | CA<br>535<br>598<br>429<br>400<br>381<br>333<br>303<br>268<br>256<br>250<br>240<br>W  | 190<br>500<br>1000<br>1000<br>1000<br>1000<br>500<br>1000<br>500<br>1000<br>1000<br>1000   | Sacramento  Oakland  San Francisco  (San Francisco  Uakland  (San Jone  Oakland  (San Francisco  Uakland  (San Francisco  Oakland  (San Francisco  Oakland  ERN STAT  Portland  Seattle   | IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX  | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X   X   X   X   X   X   X   X   X   X   | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X   | X        | X        | X       | X        | X |            |           |          |   |            | X        | X   X   X   X   X   X   X   X   X   X | PA                                    | TI IK   | HERN FUN FUN GO O W TAB FUN FUN GW FOA EX  | CA 535 508 508 508 508 508 508 508 508 508 50   | 1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>500<br>1000<br>500<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | Secremento  Oakland San Francisco San Francisco Uakland San Jose Oakland ISan Jose Oakland San Francisco Berkeley San Francisco Oskiand  ERN STAT Portland Seattle Portland   | X   | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X         | X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X   | X        | X        | X       | X        | X |            |           |          | N                                       |            | X        | X   X   X   X   X   X   X   X   X   X | DR'                                   | TI IK   | HERN FOR LX PO YA GO QW 1AB FRC RE FW1 ZM GW FOA EX FAC                                | CA 535 508 608 608 608 608 608 608 608 608 608 6  | 1990<br>1990<br>1990<br>1990<br>1990<br>1990<br>1990<br>1990   | Secretario  Dakland  San Francisco  San Francisco  Uakland  San Jone  Dakland  San Francisco  Uakland  San Francisco  Dakland  San Francisco  Berkeley  San Francisco  Dakland  ERN STAT  Portland  Seattle  Portland  Calgary  | x     x   x     x     x     x     x     x     x     x     x     x     x   x     x     x     x     x     x     x     x     x     x     x   x     x     x     x     x     x     x     x     x   x     x     x   x   x     x     x     x     x     x     x     x     x     x     x   x     x     x     x     x     x     x     x     x     x     x   x     x     x     x     x     x     x     x     x     x     x   x     x | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X1<br>X1<br>X1<br>X1<br>X1<br>X1<br>X1<br>X1                                    | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X   | X        | X        | X       | X        | X |            |           |          |   |            | X        | X   X   X   X   X   X   X   X   X   X | R X                                   | TI IK   | HERN FOR LX PO YA GO QW 1AB FRC RE FWI ZM GW FOA EX FAC FXF                            | C./<br>9 535<br>9 608<br>1 428<br>1 400<br>1 381<br>1 333<br>3 303<br>3 268<br>2 250<br>2 240<br>2 240<br>2 240<br>4 447<br>4 435<br>4 422<br>4 422 | 1000 500 1000 500 1000 1000 1000 1000 1  | Sacramento Dakland San Francisco San Francisco Uakland, San Jone Dakland San Francisco Dakland San Francisco Dakland ERN STAT Portland. Seattle Portland. Calgary Danver.   | IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX  | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X   X   X   X   X   X   X   X   X   X   | X           | X                                     | X   X   X   X   X   X   X   X   X   X | X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | X        | X        | X       | X        | X |            |           |          |   |            | X        | X   X   X   X   X   X   X   X   X   X | PA                                    | TI KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN FOR LX PO YA GO QW 1AB FRC RE FWI ZM GW FOA EX FAC FXF                            | C// 9 535 508 608 608 608 608 608 608 608 608 608 6   | 1000 500 1000 500 1000 500 1000 1000 10  | Sacramento Dakland San Francisco San Francisco Uakland, San Jone Dakland San Francisco Dakland San Francisco Dakland ERN STAT Portland Soattle Portland Calgary Danver Spokene  | IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>I   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X   X   X   X   X   X   X   X   X   X   | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | X        | X        | X       | X        | X |            |           |          |   |            | X        | X   X   X   X   X   X   X   X   X   X | DR'                                   | TI KKIKIKIKIKIKIKIKIKIKIKIKIKIKIKIKIKIKI  | HERN FOR LX PO YA GO QW TAB FRC RE FWI ZM AND GW FOA EX FAC FXF                        | C./   | 1000 500 1000 500 1000 1000 1000 1000 1  | Sacramento Dakland San Francisco San Francisco Uakland, San Jone Dakland San Francisco Dakland San Francisco Dakland ERN STAT Portland. Seattle Portland. Calgary Danver.   | X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X                                     | X   X   X   X   X   X   X   X   X   X | X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X:<br>X | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | X        | X        | X       | X        | X |            |           |          |   |            | X        | X   X   X   X   X   X   X   X   X   X | EH X                                  | TI KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN FOR LX PO YA GO QW 1 AB FRC RE FWI ZM GW FOA EX FAC FXF HQ JR LZ                  | C./   | 1000 500 1000 1000 1000 1000 1000 1000   | Secretario  Secretario  Secretario  Sen Francisco  Sen Francisco  Unkland  Sen Jone  Oakland  Sen Francisco  Berkeley  Sen Francisco  Oakland  ERN STAT  Portland  Seattle  Portland  Calgary  Denver  Spokene  Seattle  Seattle  | IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>IX<br>I   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X   X   X   X   X   X   X   X   X   X   | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | X        | X        | X       | X        | X | -          |           | X        |   | 01         | X        | X                                     | PR'                                   | TI KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN FOR LX PO YA GO QW 1AB FRC RE FWI ZM GW FOA EX FAC FXF HQ JR LZ OA                | C./   | 1000 500 1000 1000 1000 1000 1000 1000   | Secretario  Dakland  San Francisco  San Francisco  Uakland  San Jone  Dakland  San Jone  Dakland  San Francisco  Berkeley  San Francisco  Dakland  ERN STAT  Portland  Seattle  Portland  Calgary  Danver  Spokene  Seattle  Denver   | X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X   X   X   X   X   X   X   X   X   X   | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          |                     | X   |          | X        | X       | X        | X | -          |           | X        |   | 01         | X        | X                                     | PR X                                  | TIKE IK   | HERN FOR LX PO YA GO QW 1 AB FRC RE FWI ZM GW FOA EX FAC FXF HQ JR LZ                  | C./   | 1000 500 1000 1000 1000 1000 1000 500 1000 500 1000 500 1000 500 1000 500 5  | Sacramento  Oakland  San Francisco  San Francisco  Uakland  San Jone  Oakland  San Jone  Oakland  San Francisco  Berkeley  San Francisco  Oakland  ERN STAT  Portland  Seattle  Portland  Calgary  Danver  Spokene  Seattle  Denver  Oenver   | X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X: X  | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          | X 1                 | X   |          | X        | X       | X        | X | -          |           | X        |   | 01         | X        | X                                     | EH X                                  | TI KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN FOR LX PO YA GO QW TAB FRC RE FWI ZM AND GW FOA EX FAC FXF HQ JB LZ OA OIN        | C./   | 1000 1000 1000 1000 1000 1000 1000 100   | Secretario  Dakland  San Francisco  San Francisco  Uakland  San Jone  Dakland  San Jone  Dakland  San Francisco  Berkeley  San Francisco  Dakland  ERN STAT  Portland  Seattle  Portland  Calgary  Danver  Spokene  Seattle  Detiver  Denver  Purtland  | X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X: X  | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          | X 1                 | X   |          | X        | X       | X        | X | -          |           | X        |   | 01         | X        | X   X   X   X   X   X   X   X   X   X | X X X X X X X X X X X X X X X X X X X | TI KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN FOR LX PO YA GO QW TAB FRC RE FWI ZM AND GW FOA EX FAC FXF HQ JR LZ OA OIN OMO    | C./   | 1000 1000 1000 1000 1000 1000 1000 100   | Secretario  Dakland  San Francisco  San Francisco  Uakland  San Jone  Dakland  San Jone  Dakland  San Francisco  Berkeley  San Francisco  Dakland  ERN STAT  Portland  Seattle  Portland  Calgary  Danver  Spokene  Seattle  Denver  Purtland  Seattle  Denver  Purtland  Seattle   | X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X X X X X X X X X X X X X X X X X X X | X   X   X   X   X   X   X   X   X   X | X: X  | X   X   X   X   X   X   X   X   X   X |           |            | X        |
|          | X 1                 | X   |          | X        | X       | X        | X | -          |           | X        |   | 01         | X        | X   X   X   X   X   X   X   X   X   X | X X X X X X X X X X X X X X X X X X X | TI KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK   | HERN FOR LX PO YA GO QW 1AB FRC RE FWI ZM AND GW FOA EX FAC FXF HQ JR LZ OA OIN OMO SL | C./   | 1000 500 1000 500 1000 500 1000 500 500  | Secretario  Dakland  San Francisco  San Francisco  Uakland  San Francisco  Uakland  San Jone  Dakland  San Francisco  Berkeley  San Francisco  Oskland  ERN STAT  Portland  Seattle  Portland  Calgary  Danver  Spokene  Seattle  Denver  Denver  Purtland  Seattle  Seattle  Denver  Purtland  Seattle  Seattle  Denver  Seattle  Salt Lake City | X   | X                                       | X   X   X   X   X   X   X   X   X   X   | X           | X                                     | X   X   X   X   X   X   X   X   X   X | X: X  | X   X   X   X   X   X   X   X   X   X |           |            | X        |

Hours Shown as Submitted by These Stations. For DX Schoule See Page 46

Counterphase for DX: H. A. EVEREST, 1032 N. Ogden Dr. GR. 9915

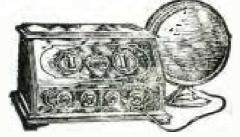
## TUESDAY TIME TABLE ALL TIME TABLES ADJUSTED TO PACIFIC TIME TO PACIFIC TIME (X) Indicates States In Co. the Ale

|      |          | -12  |       |          | 12-  |       |          |          | 2-       |     |     |         | 4-   |       |                |         |                       |  | (X) I                | T        | - 6         | -8     | 30   | 1   | 8-   | 10    | I     | 10       | 0-18  | 2   |
|------|----------|------|-------|----------|------|-------|----------|----------|----------|-----|-----|---------|------|-------|----------------|---------|-----------------------|--|----------------------|----------|-------------|--------|------|-----|------|-------|-------|----------|-------|-----|
|      | A.       | M.   |       |          | P.I  | M.    |          |          | Ρ.       | M.  |     |         | P.I  | M.    |                |         | -                     | TATI   | ONS                  | )        | _           | M.     |      | 1   | P.   | M.    | 1     | P        | ,M,   |     |
| m-10 | 30-11-00 | 19   | 30-12 | 00-12 30 | 30-1 | 90-1  | 30- 2 00 | 00- 2 30 | 30- 3 00 | ģ   |     | 00-4 38 | 30.5 | 60.5  | 30- 8 00       | CALL    | Wave Length<br>Meters | Power In<br>Watte  | STATION              | 00- 6 30 |             | 00-730 | 30-8 |     | 30-8 | 8 -00 | 30-10 | 30-11 30 | 20-11 |     |
| 2    | 2        | =    | =     | 2        | 2    | -     | -        | 2        | 2        | 63  | m   | 4       | 7    | ND.   | 40             |         | ₹2                    | 63   |                      | 0        | 40          | ~      | Pm   | 60  |      | 60    | n I   | 2 2      | =     | 1   |
|      |          |      |       |          |      |       |          |          |          |     |     |         |      | 50    | U              | THERN   | CA                    | LLIF   | FORNIA               |          |             |        |      |     |      |       |       |          |       |     |
|      | -        | -9   |       | 30       |      | (4)   | -        | 1        |          |     | -   | 4       |      |       | à              | KELW    | 500                   | 250  | Burbenic             | TX       | X           | X      | X    | X   | X    | XI    | X     | 16       | 1.    | 1   |
|      |          |      |       | -        | -1   | -     | -        |          | 1 -1     | -   | ١.  |         |      | -     | _              | KFI     | 467                   |  | Los Angeles          |          | ı X         | X      | X    | X   | X    | X     | Xį    | XIX      | Η.    | . 1 |
| -1   | 1        |      |       | X        | X    | -     | -        | 0        |          |     |     | 1 .     |      |       |                | KFCR    | 413                   | _  | Santa Barbara        | 18       | 1 0         | 1 0    | 0    | X   | X    | -1    | 1     | 1        | 1.    | -   |
| -    |          |      |       |          |      | -     | -        |          | X        | X   |     |         | 1 .  | -     | -              | KHJ     | 406                   |  | Los Angeles          |          | _           | -      | X    | -   | X    | X     | XI    | X X      | 1     |     |
| 10   |          | 94   | -     |          |      | 201.0 | 10       | -        |          | 34  | -   |         |      |       | X              | KMIC    | 387                   |  | Inglewood            |          | X           | -      | X    | X   | X    | XI    | XI.   |          | 1     | 4   |
| X    | X        | X    | A     |          | A    | A     | A        | X        | X        | X   | X   | X       | X    | X     | X              | KMTR    | 370                   |  | Hollywood            |          |             | X      | X    |     | X    | XI.   | XI    | A A      |       | 1   |
| 읙    | A        |      |       | ^        | ¥1   | X     | A        | ^        | -        | A   | A   | -       | -    | -     | -              | KNX     | 337                   |  | Lon Angeles          | X        |             |        | X    |     | A    | A.    | 쓻     | AI A     | 1     | 4   |
| 1    |          |      | -     | X        |      | ^!    |          | -        |          | -   |     | -       | -    |       | 4              | KPSN    |                       |  | Pasadena             | -        | X           | _      |      | X   | XI   | W.    | -     |          | 1     | Ť   |
| 1    |          |      |       | X        | X.   | X.    |          | X        | X        | X   | ×   | X       | 5 1  | X     | -              | AMB     | 301                   |  | Tia Juana, Mex       | 1        | 1           | X      | X    | X   | X    | XI    | XI    | 1        | I     | 1   |
| . 1  |          | X    | X     | X        |      | -     |          |          | -        |     | 1   | X       | K    | 1     |                | KFWC    | 235                   |  | San Bermardine       | i        |             | -      |      |     | 1    | XI    | XI    | XX       | X     | i i |
| ī    |          |      |       |          |      |       |          | X        | X        |     |     |         |      | 1     |                | KTBI    | 294                   |  | Los Angeles          | 1        | 1           | X      | X    | X   | X    | -1    | -1    | 11.      | 1 .   | ī   |
|      | X        | K    | X     | K        |      | . 1   |          |          | X        | X   | X   | X       |      | 0     |                | KFSG    | 275                   | -  | Los Angeles          | 1.       | X           | X      | X    | X   | X    | X     | -     | .1 -     | L     | 1   |
|      |          |      |       |          | ,    | . 1   | 1        | ,        |          |     |     |         | -    |       | ×              | KWTC    | 263                   |  | Santa Ann            |          |             |        |      | X   | X    | XI.   | IX    | 11.      | 1.    | 1   |
| X    | X        |      |       |          | XI   | X     |          |          |          |     |     |         | X    | X     | X              | KFWB    | 252                   |  | Hollywood            |          | X           | X      | X    | X   | X    | XI.   | XÎ    | X   X    | X     | 1   |
|      |          |      |       |          | -    |       |          |          |          | -   |     |         |      |       |                | K F 8 D |                       |  | San Diego,           |          | 1           | _      | X    | X   | X    | X     | X     | XX       | Ι.    | 1   |
|      | - 1      | _    |       |          | -1   |       | -        |          |          | -   | -   |         | . [  |       |                | KFSD    |                       |  | San Diegu            | -        | X           | X      | X    | X   | X    | X]    | H     | XIX      | -     |     |
| - 1  |          |      | . 7   |          |      | - [   |          | ,        | X        | K   | X   | X       | -    |       |                | KNRC    |                       |  | Santa Monica         | 1 X      | X           | X      | X.   | X   | XI   | XI    | X I   | -        | A     | 14  |
| X.   | X        | X.   |       | A        | . 1  | X     | X        | X        | X        | X   | X   | X       | X    | X     | X              | KFON    |                       |  | Long Beach           |          | -           | X      |      | X   | X    |       | XI    |          | X     | 1   |
|      | -        | -    | -     | X        | -    | 94 /  |          | 4        | 3.       |     |     |         | -    | -     | · ·            | KFQZ    | 226                   |  | Hollywood            |          | 2           |        |      |     | X    | X     | ΧĹ    | XI X     | 1 0   | 1   |
| -    |          |      | -     | -        | A    | X     |          |          | -        | -   | -   | -       | -    | X     | -              | KFWO    | 211                   |  | Catalina<br>Vanice   | IX       |             |        | X    |     | X    | W:    | -1    | XIX      | 1     | 1   |
| - 3  |          |      | _     |          | - 1  | - 1   | -        |          | _        |     | _   |         | щ    |       | -              |         | _                     |  |                      | 1^       | A           | A      | A    | A   | Al   | A     | ^     | W   W    | 1 4   | J   |
| _    |          |      | _     |          |      | _     |          |          |          |     |     | _       |      | NU.   | K              | THERN   | _                     | -  | ORNIA                | -        | 78.000      |        | _    |     | _    | _     |       |          |       |     |
| . 1  | 10       | - 0  | -1    |          | 4    | 21    |          |          |          |     |     |         |      | 19    |                | KLX     | - 75.5                |  | Onkland.             |          | 1           | X      |      |     |      | -1    | -     | L        | 1     | 1   |
|      | X        |      |       | X        |      | X     | X        | +        | -        | -   | X   | X       | X    | X     |                | KPO     |                       |  | San Francisco        | IX       | _           |        | X    | X   | X    | X     | XI    | X X      |       | H   |
| X.   | X        |      | 84    |          | X    | X     | X        |          | -        |     |     |         |      | ter : | -              | KYA     |                       |  | San Francisco.       | 1        | X           | X      | -    | X   |      | -     | XI    | XI A     |       | I   |
| -    |          |      | X     | X        | X    | - 1   | X        | - 1      | -        |     | -   | 0       | -    | A     | _              | KGO     |                       |  | Oakland.<br>San Jose | X        | The last on | X      |      | X   | X    | A     | XI    | 1        | 1 -   | 1   |
| X    | - 2      |      |       |          | - 1  | -     | -        | -        | -        | 0   |     |         | -    | X     | _              | KQW     |                       |  | 0.11                 | -        |             | W      | A    | A)  | Wi   | WI    | W.E   | - 1 -    | +     | 1   |
| - 1  | -        | -    |       | 1        | -    | -1    |          |          |          |     |     |         | -    | -     | -              | KSMR    | 283                   |  | Santa Maria          | 1        | X           | X      | X    | X   | XI   | XI.   | XI    |          | 1     | -   |
| XI   | X        | X    |       | X.       | XI   | Xi    |          | -        |          |     |     | X       | X    | X     | X              | KFRC    | 258                   |  | Sen Francisco        | 1×       | , 44        |        |      | X   | X    | XI    | XI    | XI X     | 6     | ń   |
|      |          | X    |       | -        |      | 1     |          |          |          |     |     |         |      |       | Name of Street | KRE     | 254                   |  | Berkeley:            | i i      | 1           | -      |      |     | 1    | XI    | XI    | .1       | 1     | 1   |
|      |          |      |       |          | . 1  | 1     |          |          |          | X   | X   |         |      |       |                | KFUS    | 284                   | 250  | Oakland.             | 1        |             |        |      |     | -1   | .1    | .1    | T.       | 1     | Ì   |
| X    | X        |      | X     | X        | 1    | 1     | -1       | X        |          | -   |     |         | 4.   |       | -              | KEWH    | 254                   | 100  | Eureka               | I.       | 1           |        |      | X   | X    | XI    | . 1   | .1       | T.    | Ī   |
| 7    |          |      | 11    | 1        |      | X     | X        |          | - (      |     | 34  | 10      | 135  | 2     | 0              | KFWI    | 250                   | 500  | San Francisco.       | IX       | X           | X      |      | X   | X    | . [   | -1    | 11.      | 1.    | 1   |
| I    | -1       |      |       |          | - 1  | -1    | 1        |          |          |     |     |         |      |       | 5              | KZM     | 240                   | 100  | Onkland.             | 1        | X           |        |      |     |      | -1    | 1     | L        | L     | I   |
|      |          |      |       |          |      |       |          |          |          |     | N   | Ol      | TY   | Ш     | EH             | N AND   | W                     | EST  | ERN STATI            | S        |             |        |      |     |      |       |       |          |       |     |
| X    | X        | X    | -     |          | X    | X     |          | X        | X        | -1  | Lei | -       |      |       | 4              | KGW     | 491                   | 1000   | Pertland.            | ix       | X           | X      | X    | X   | X:   | X!    | XI    | X IX     |       | 1   |
| -1   |          |      |       | b        | X    | XI    | . [      | X        | 1        | -   |     | -3      | X    |       |                | KFOA    |                       |  | Seattle              | 15       | X           | X      | X    | X   | XI   | X     | XI    | 41.      | 1     | 1   |
| -1   | 1        |      |       |          | - 1  | - 1   | -1       |          | - 1      | , 1 | -   | -       | -    |       | _              | KEX     |                       |  | Purtland.            | IX       | X           | X      | X    | X.  | XI   | X     | XI    | XIX      | X     | H   |
| -1   |          |      |       | X        | X    | - 1   | -        | -        |          | , 1 |     |         |      | X     |                | CFAC    |                       |  | Calgary              | -        |             |        |      |     | 14   | -1    | - 1   | -1       | 1     | 1   |
| -    |          |      | -     | -1       | -    | -1    | - 1      |          |          |     | ٠   |         |      |       | _              | KFXF    | _                     |  | Denver               |          | -           | X      | -    | X   | X    |       | -     | XIX      | I X   | 1   |
| -    |          | - 1  |       |          |      |       |          | X        | X        | -   | -   |         | -    |       | -              | KHQ     |                       |  | Spokane              | -        | _           | X      | X    | A   | XI.  |       | XI    | 1        | -     | -   |
| X.   | X        | A    | _     | . 1      | -    | - 1   | -        | +        |          |     | -   | -       | -    | 4     | _              | KJR     |                       |  | Seattle.             | X        | -           | -      |      |     | X:   | XI    | X]    | 4        | 1 -   | 1   |
| .    | M s      | 86.1 |       | 1        | 7 4  | 1     | -        | WI       | -        | - 1 | -   | 0       | - 1  |       |                |         |                       |  | Denver               | -        |             | X      |      | X   | A)   |       | -     | 1        | 1     | -   |
| , 1  | X        | X    | X     | X        | - 1  | - 1   | - 1      | A        | A        | X   | X   | -       | 4    | X     |                | KOA     | _                     | and the same of th | Portland             | IV       | X           | -      | * 1  | X   |      | X     | Y T   | 1        | L     | 1   |
| e I  | WI       | W !  | A I   | Y        | W 1  | YI    | X        | Y        | Y        | Y   | Y   | Y       | Y    | Y     | _              | KOMO    |                       |  | Scattle.             | IX       | -           | ~      | 2    | XI  | XI   | -     | -     | XX       | Y     | 1   |
| 7    | 1        | -    | 2     | - A      | -    | -1    | 1        | -        | -        | 1   | -   | -       | 1    | -     | _              | KSL     |                       |  | Salt Lake City       | X        | -           | H      | -    | XI  | X!   | 1     | 1     | 1        | 1     | I   |
| 1    |          |      |       | 1        | 1    | -     |          | - 1      | - 1      | X   | X   |         | . 1  |       | -              | CNRV    |                       |  | Vancouver            |          |             |        | X    | 37  | 241  | X     | X     | 1        | 1     | 1   |
| . 1  |          |      |       | -1       |      | T     |          | 1        | - 1      | -1  | -   |         | 1    | 0     | _              | KOWW    | _                     |  | Walla Walla          | 1        | -           | X      | -    | -1  |      | -1    | 1     |          | 1     | 1   |
| 1    |          |      |       |          | 1    | 1     | 1        |          | 1        | .1  | -   |         |      | -, ]  | -              | KFJR I  | 283                   | _  | Pertland.            |          |             |        | X    | -1  | -1   | XI    | T     | -1-      | 1     | Ť   |
| - 1  | XI       |      |       | 1        | X    | X     | -1       | X        | X        | X   | X   | -       | .    | 4     | -              | KMO     | 230                   | 500  | Tacoma               | 1.       |             | X      | _    | 1.1 | -1   | .1    | .1    | 1.       | 1.    | T   |
| 푔    | 4.0      |      | - 2   | _        | _    | -     | - P      | _        | -        | -   | -   |         | -    | 1     | -              | KFOX    | _                     | -  | Seattle.             | -        |             | X      | 44.0 | -   | _    | -     | -     | 7        | 1     | T   |

## WEDNESDAY TIME TABLE ALL TIME TABLES ADJUSTED TO PACIFIC TIME (X) Indicates Station Is On the Air

|          |       | -12<br>M. | F    |      | 12-<br>P.N |     |      |    | 2-<br>P. | 4<br>M. |      |       | 4-1<br>P.F |      |       |      |       | S                     | TATI   | DNS  | Ī     | 8                    | -8<br>M, |       | T     |     | 10<br>M. |    |       | 10-<br>P.I | _     |   |
|----------|-------|-----------|------|------|------------|-----|------|----|----------|---------|------|-------|------------|------|-------|------|-------|-----------------------|--|--|-------|----------------------|----------|-------|-------|-----|----------|----|-------|------------|-------|---|
| 8        | 8     | 8         | 8    | R    | 8          | 8   | 8    | 30 | 8        | 8       | 8    | R     | 8          | 8    | 8     | T    |       |                       |  |  | R     | 8                    | 8        | 8     | R     | 1 1 | - 1      | 8  | 8     | - 1        |       | 8 |
| 10 00-10 | 30-11 |           |      | 12   | -          | -   | 2    | 2  | 30-3     | 673     | 30-4 | 4     | 10         | 9-00 | 30- 8 | ١,   | CALL  | Wave Length<br>Meters | er fn  | STATION  | 8 -00 | 30 7                 | 00-7.3   | 30-80 | 00-83 | 0   |          |    | 00-10 | 30-11      | 00-11 |   |
| 2        | 2     | =         | =    | 12   | 12         | -   | -    | 2  | 2        | m       | 673  | 4     | 4          | 22   | S     |      |       | ₹ ¥ ¥                 | Power  |  | 6     | 60                   | 7.0      | 1~    | 8     |     |          |    | 10    | 10         | Ξ     | - |
|          |       |           |      |      |            |     |      |    |          |         |      |       |            | 50   | U     | 100  |       |                       |  | ORNIA  |       |                      |          |       |       |     |          |    |       |            |       |   |
| -        | 1 -   | 1 -       | 1    | -    |            |     |      |    | -        | +       | 1    | -     | -          | -    |       | -    | ELW   |                       |  | Burbank  | IX    | 0                    | X        | X     | X     | X   | X        | X  | . 1   | 1          | -     |   |
| ¥        | I ¥   | X         | 4 1  |      |            | -   |      |    |          |         |      |       |            | -    | -     | IK.  | GEF   |                       |  | Los Angeles  | -     | X                    |          |       | -     | -   |          |    | -     | 100        |       | - |
| ^        | 1     | ^         | 1    | X    | ¥1         | -1  |      | -  | 0        | 1       | -    |       | - 1        | P    |       | •    | FCR   | 413                   | THE RESERVE  | Los Angeles  | 1.    | Ä                    | X        |       |       | X   | X        | X  | X     | A          |       |   |
| Ì        | 1     |           |      | 1    | - 1        | -1  |      |    | X        | ×       |      |       | - 1        | -    |       | IK.  |       | 485                   |  | Los Angeles  | 1     | X                    | Y        | X     | I Y   | ¥ ! | W        | X  | ¥.    | ¥1         | -     |   |
| 1        | 1     |           |      |      |            | -1  |      |    | -        |         |      |       |            |      |       |      | MIC   | 387                   |  | Inglewood  | IX    |                      | _        | X     | IX    | X   | X        | XI |       | -          |       | i |
| 9        | 1     |           |      | X    | X          | 1   |      |    |          |         |      | 1     | i          | . 0  | _     | -    | FBC   | 380                   | _  | San Diego  | T     |                      | X        |       | IX    | X   | X        | X  |       |            |       |   |
| X        | X     | 1 - 1     |      | X    | X          | X   | X    | X  | X        | X       | X    | X     | X          | X    | -     | -    | MTR   | 370                   |  | Hollywood  | IX    | X                    | X        | X     | X     | X   | XI       | XI | X     | X          |       | Т |
| X        | X     | 1 .       |      | IX   | X          | i   | X    | X  | X        | X       | X    | ] X   | X          |      | X     | IK   | N X   | 337                   | 750  | Los Angeles  | IX    | X                    | X        | X     | 1 X   | X   | X        | XI | X     | X          | X     |   |
| 4        | - 4   |           |      | [X]  | X]         |     |      |    |          | X       | X    |       |            | 1    |       | !K   | GER   | 328                   | 100  | Long Beach   | IX    | X                    |          |       | 1     |     |          |    |       | - 1        |       |   |
|          | 1 -   |           |      | X    | -          | - 1 | , 1  |    |          | [       | -    | 1 -1  | -          |      |       | JK : | PSN   | 316                   | 1000   | Pasadena,  | IX    | X                    |          | -     | 1 .   | -   |          |    |       | . 1        | 100   | Г |
|          | -     | -         |      | X    | X          | X!  | X    | X  | X        | X       | X    | X     | X          | X    |       |      | MB    | 301                   |  | Tia Juana, Mex.  | 1.    |                      |          | 1     | 1.    |     | +        |    |       | .          | _,    |   |
| 4        | -     | X         | X    | X    |            | 1   | -    |    |          |         |      | X     | X          | X    |       |      | FWC   | 295                   | THE RESERVE TO SHARE   | San Bernarding   | 1     | 1                    | -        |       |       | 1   | X        | X  | X     | X          | X     |   |
| ×        |       |           |      | -    |            | -   | 1    | X  | X        | 1       |      |       |            |      |       | -    | TBI   | 294                   |  | Los Angeles  | -     | 1                    | X        | X     | X     | X   |          |    | į.    |            | 1     |   |
| W.       |       | 1 20      | 1 14 | 1 M  |            | 4   | -    |    | -        | 1 00    | 1 12 |       |            |      |       | -    | SMA   | 283                   |  | Santa Maria  | 1 -   | X                    | X        | X     | X     | X   | X        | X  | F     |            |       |   |
| 0        | X     | X         | X    | X    | -          | 4   | 1    |    | X        | X       | X    | X     | X          | X    |       |      | FSG   | 275                   |  | Los Angeles  | 1.    | X                    | X        | X     | X     | X   | X        | -  | -     | -          | -     |   |
|          | -     | - 5       |      |      | -          |     |      | -  | -        | _       |      | -     |            |      | _     | -    | WTC   | 263                   | -  | Santa Ana  | 1.    | X                    | _        | 1 37  |       |     |          |    | 1     |            | 1     | _ |
| ^        | X     |           |      |      | A          | A   | -    | -  | 1 1      | -       | ] 3  | -     | -          | X    | -     | _    | FWB   | 252                   | -  | Hollywood  | JX    | -                    | _        | X     | IX    | X   | X        | X  | X     | X          | X     | _ |
| 1        | 1     |           |      |      |            | -1  | 9.   | ó  | 0        | -       |      |       |            |      | -     | -    | FSD   | _                     | _  | San Diego  | . 0   | -                    |          | X     | X     | X   | X        | X  | X     | X          | -     |   |
| 0        | IW    | 1 9       |      | 1 4  | V          | V.  | ~    |    | A        | A       |      | X     | - i        |      | -     | -    | NRC   |                       | The Party of the P | Santa Monica   |       | -                    | _        | X     | X     | X   | A        | XI | X     | X          | X     |   |
| Ú        | A     | -         | A    | I V  | A          | A   | ^    | ^  |          | ^       | A    | \ \ \ | A          | X    | _     |      | FON   |                       |  | Long Beach   | . I X | _                    |          | X     | X     | X   | A        | X  | A     | X          | X     | F |
| à        | 1     | 1         | 1    | IV   | XI         | - 1 | 7    |    | -        | 1       | 1    |       |            |      |       | -    | P P C | 229                   |  | Pasadena   | 1 4   | X                    |          | A     | 10    | A   | V:       | V  | V     | VI         | - 33  | - |
| ÷        | 1     | -         | 1    | 1    | 7          | -1  |      |    | -        | 1       | -    |       | -          | -    | _     | -    | GFH   | 219                   |  | La Crescenta   | IX    | 1                    | ^        | 1 ^   | 10    |     | Y        | X  | X     | X          | -     | - |
| -        | 1     |           |      |      | X          | X   | 4    |    |          |         |      | 1     |            |      |       | -    | FWO   | 211                   |  | Catalina   | IX    | X                    | X        | X     | i v   | Y   | ^        |    |       |            |       | - |
| Ĵ        |       |           |      | X    | X          |     | -    |    |          |         |      | X     | X          |      |       | *    | FVD   | 205                   |  | \ enice  | -     | X                    |          | X     | X     | X   | X        | XI | X     | X          | X     |   |
|          |       |           |      |      |            |     |      |    |          |         |      |       | _          | NO   |       | _    | IERN  |                       | _  | FORNIA   |       |                      |          |       |       |     |          |    |       |            |       |   |
|          | T     | 3         |      | L.   | -          | -1  |      |    | -        |         |      |       | 1          |      |       | IK   | LX    |                       | _  | Oakland  | L     | X                    | X        |       | IX    | X   | XI       | X  |       |            |       | Г |
| V        | X     |           |      | X    | .1         | X   | X    |    |          | 1       | X    | X     | X          | X    | X     | JK I | PO    | 428                   | 1000   | Sen Francisco  | IX    | X                    | X        | X     | X     | X   | X        | X  | X     | X          | X     |   |
| ×        | 1     |           |      |      | XI         | Xi  | X    | -  |          |         | 00   | .     | 1          |      |       | ĮΚ   | Y A   | 400                   | 1000   | San Francisco.   | T     | X                    | X        | 1.    | X     | X   | X        | X  | X     | X          |       | Г |
|          | 1     |           | X    | X    | X          | -1  | X    | X  | X        | X       | X    | X     | X          | X    | X     | K    | G 0   | 361                   | 4000   | Oakland  | IX    | X                    | X        |       | X     | X   | X        | X  |       | . 1        |       |   |
| X        | 1 .   | -         | -    |      | -1         | -1  | 01   | -  | 1        |         |      |       |            | -    |       | IK.  | QW    | 333                   | 500  | San Jose   | IX    | X                    | X        | X     | IX    | X   | X        |    |       |            |       | Ī |
| i,       | 1     |           |      |      |            | H   |      | -  |          | 1       | 1    |       | -          | X    | X     | K.   | TAB   | 303                   | 1000   | Oakland  | 1     | X                    | X        | -     | 1 X   | X   | X        | X  |       | -          |       | Г |
| X        | *     | 2         | X    | X    | X          | X   | X    |    |          | 1 -     |      | X     | X          | X    | X     | JK . | FRC   | 268                   |  | San Francisco  | IX    | X                    | X        | 1     | ĮΧ    | X   | X        | X  | X     | X          | X     |   |
| X        | X     |           | -    | 1    | . 1        |     | -    | -  | 1        |         | iq.  |       |            | 41   |       |      | FUS   | 256                   |  | Onkland  | 1     | 1 =                  |          |       | X     | X   | -1       | 1  | ,     |            | 9     |   |
|          |       | X         |      | 1    |            | +   | )    |    |          | 1 .     | 1    |       |            |      |       |      | RE    |                       |  | Berkeley   | 1     | -                    | 1        |       |       |     | 1        | 1  |       |            |       |   |
|          | 1     | -         |      |      |            | X   | X    |    | -        |         |      |       |            | - 3  | _     | 7    | FWI   | 250                   | -  | San Francisco  |       | X                    |          | 1     | į X   | X   | X        | X  | X     | X          | X     |   |
|          | 1     | -         |      | -    | -1         |     | .,   |    | -        |         | 4    |       | -          |      |       | IK.  | Z M   | 240                   | 100  | Oakland.   | 1     | 1 X                  |          | -     | 1     |     | - 1      | -  | 1     |            | -     |   |
|          |       |           |      |      |            |     |      |    |          |         | N    | OI:   | RT         | H    | ER    | N    | AND   | W                     | EST  | ERN STATI  | ES    |                      |          |       |       |     |          |    |       |            |       |   |
| K        | X     | X         |      |      | XI         | Xi  | ,    |    | -        | 1       | 1    |       | -          | -    |       | K    | G W   | 491                   | 1000   | Portland.  | X     | X                    | X        | X     | X     | X   | X        | X  |       |            |       | ſ |
|          |       |           | -4   | 1    | XI         | X   | - 1  | X  |          |         |      |       | X          |      |       | JK I | FOA   | 454                   | 1000   | Seattle.   | 1     | X                    |          | 1     | 1     | 1   | -        |    |       |            | -     |   |
|          | 1     |           |      |      |            | -   |      | -  |          |         | ,    |       | -          |      |       | K I  | EX    | -                     | And the second   | Portland   | IX    | X.                   |          | -     |       | X   | -)       |    |       | 1          |       |   |
|          |       |           |      | X    | XI         | -   |      |    |          | -       | ,1   | 4     | +          | -0   |       |      | FAC   |                       |  | Calgary  | 1     | Contract of the last | X        | -     | _     | . 1 | . 1      | -  |       | . 1        |       |   |
|          | 1     |           |      | -    | -          |     |      |    |          |         |      |       |            |      | _     | -    | FXF   |                       |  | Denver.  |       |                      | X        | X     | X     | X   | X        | X  | X     | X          | X     |   |
| X        | [ X   | X         |      |      |            | 1   |      |    | -        | X       | X    |       | 11         | 14   | -     | IK.  |       |                       |  | Scattle  | IX    |                      |          |       | 1     |     | X        | X  | X     | X          |       |   |
|          |       |           | 1    |      | -1         | 1   | b    | 4  | 1        | 1       | 1    |       |            | X    | -     | K    |       |                       |  | Denver.  | IX    | X                    |          |       |       |     |          |    |       | 10         |       |   |
|          | X     | X         | X    | X    | -1         |     |      | 4  | -        | 1       |      |       |            | X    | -     | _    | OA    |                       |  | Denver   | 1     |                      | X        |       |       |     | _        | -  |       |            | -     |   |
| 0        | -     | X         | -    |      | -1         | 11  | 1    | -  |          | X       | X    | - 1   |            | X    |       |      | OIN   |                       | -  | the state of the s | 1 X   | _                    |          |       | -     |     | X        | -  |       |            | -     |   |
| X        | X     | X         | X    | X    | XI         | X   | X    | X  | X        | X       | X    | X     | XI         | X    | _     |      | OMO   |                       |  | Seattle  |       | ! X                  |          | X     |       |     | X        |    |       | X          | X     | 1 |
| 1        | -     |           |      | -    | -1         | .   | -1   |    | _1       |         | A    |       | 11         |      |       | IK.  |       |                       |  | Salt Lake City.  | IX    | X                    |          |       | X     | X   |          |    |       |            |       | 1 |
|          | 1 -   |           | -    |      |            | - 1 | - (1 | 1  |          |         |      |       |            | 10   |       |      | O W W |                       |  | Walfa Walfa  | 1     | -                    | X        | -     | 1     |     |          | X  | X     | X          | X     |   |
| n de     | 1     |           |      | 0.00 | -1         | -1  |      |    | 15       |         | 10   | 4     | -          | D    |       | -    | OAC   | -                     |  | Corvailis, Ore   | 1     | 1 -                  | X        | X     |       | X   |          | -  | 1     |            |       |   |
| -        | X     |           |      | X    | -          | -1  |      | X  | 04       | 1 84    | 1 ~  |       | +          |      | _     | *    | FWH   |                       | 1  | Eureka   | 1     | 1                    |          |       | _     | X   | -        | X  | -     |            |       |   |
| Y        | X     | 1 -       |      |      | -          |     | 9    | X  | X        | X       | X    |       | -          | - 4  |       | İK   | M O   | 250                   | 500  | Tacoma   | 1     | 1 4                  | -        | -     | İX    | X   |          | 4  | -0    | -          | -     |   |

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## THURSDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME

|      | 10-<br>A.I | 12<br>VI. |       |     | 12-<br>P.N |              | 1          |            | 2.<br>P.J  | -4<br>M.   |            |            | P.J        | 6<br>VI.   |            |        |             | STATI             | ONS (X) I         | 1          | P.         | .8<br>M.   |       |          | 8-1<br>P.n | 0    | Ï          | 10                                      | 0-12<br>.M. | 2   |
|------|------------|-----------|-------|-----|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|-------------|-------------------|-------------------|------------|------------|------------|-------|----------|------------|------|------------|---|-------------|-----|
| 200  | 30-11      | 00-11     | 30-12 |     | 30-        | 2            | 1 30- 2 00 | 2 00- 2 30 | 2 30- 3 80 | 3 00- 3 30 | 3 30- 4 00 | 4 00- 4 30 | 4 30- 5 00 | 6 00- 5 30 | 5 30- 6 00 | CALI   | Wave Langth | Power in<br>Watte | STATION           | 6 00- 6 30 | 6 36 7 00- | 7 00- 7.30 | 30° 8 | -00<br>8 | 8          | 8 1  | 20 01 00 0 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | 1 8         |     |
| no   | - 1        | 90        | - 1   | -   | -          | - 4          | -          |            | 8          |            |            |            |            |            | -          | THE    |             |                   | FORNIA            |            | }          | 17.        |       |          | 1          | 1    | Į,         | - 1                                     | they I      | 3   |
|      |            |           |       |     |            | -1           |            |            | 1 - ]      |            |            |            |            |            |            |        | N   58      |                   | Burbank.          | IX         | Į X        | X          | X     | X        | X          | X    | XI         | - 1                                     | .1.         | . 1 |
| -    |            |           |       |     |            | -1           |            |            | 1 1        |            | La.        |            |            | ١.         | X          | KFI.   | 45          | 7   4000          | Los Angeles       | X          | X          | X          | X     | X        | X          | X.   | XI.        | XIX                                     | KI.         | -1  |
| .    |            | 1         |       | X   | X          | -1           |            |            |            |            |            |            |            |            |            | KFC    | 1 41        | 3 50              | Santa Berbara, .  | 1          | 1 .        |            |       | X        | K          | .1   | 1          |   | 1.          | J   |
|      |            | - 1       |       | - 1 |            | 1            | 10         |            |            |            | 1          |            |            | 4          | 1          | KHJ    | 1 40        | -                 | Los Angeles.      |            | ) X        | X          | X     | X        | X          | X    | X)         | XIX                                     | 1           | J   |
|      | -1         | . ]       | - 1   |     | -1         | 1            |            |            | _          |            |            |            |            |            | X          | K M    | 1           |                   | Inglewood         | - 1        | X          | X          | X     | X        | XI         |      | X          | _                                       | 1           |     |
|      |            | 1         |       | X   | X          | -1           | 1          |            | -          | -          |            |            |            |            | 1          | JK F B |             | _                 | San Diego,        | -          | 1 -        |            | -     | X        | X          | X    | X          | XIX                                     |             | 1   |
| X    | X          | X         | X     | -   | X          | X            | X          | X          | X          | X          | X          | X          | X          | X          |            | KMT    |             |                   | Hollywood         | IX         |            | X          | X     | X        | X          | X    | X          | KIN                                     | -           | 1   |
| X    | X          | 其         | 1     | X   | X          | 1            | X          | X          | X          |            |            | X          |            | X          | X          | IKNX   | 33          | -                 | Los Angeles       | 1 X        |            | X          | X     | X        | X          | X!   | X)         | XIX                                     | C  X        | K   |
|      |            | - 5       |       | X   | X          | -1           |            |            |            | X          | X          | 15         |            |            |            | KGE    | The same    |                   | Long Beach        | IX         |            | -          | -     | -1       | -1         | -1   | -1         | -1                                      | 1           | 1   |
|      | -          |           |       | X   |            |              |            | -          |            |            | 3          | -          | - 1        | - 0        | _          | KPS    |             |                   | Pasadena.         | 1×         | X          | -          |       | X        | Xi         | X.   | 1          | -1                                      | 1.          | 1   |
| -    |            | 1         |       | X   | X          | Xª           | X          | X          | X          | X          | X          | A          | X          | X          |            | AMB    | 1 30        | -                 | Tie Juane, Mex    | 1          | 1          |            |       | +1       | -1         |      | 1          | M                                       | 0 1 Ar      | 1   |
| 9    | 4          |           | - 1   | X   | X          |              |            |            | -          | 4          |            | X          | X.         | X          | -          | KFW    | -           |                   | (San Bernardino   | . 1        | 1 -        | -          | -     | 1        | 200        | Xi   | X)         | XIX                                     | I X         | 1   |
| 1    | 40.0       | 11        |       | -   | -1         | -            |            | X          |            | 74         | 64         |            | -          | -          | _          | KTB    | 29          | -                 | Los Angeles       |            | 1          | X          | X     | X        | X          | -    | 1          | 1                                       | 1           | 1   |
|      | X          | X         | XI    | X   |            |              | 1          | -          | X          | X          | X          | A          |            | -          | -          | KFS(   |             |                   | Los Angeles       | 1 4        | X          | X          | X     | X        | X          | X    | XI.        | XX                                      |             | -   |
|      | Ga :       | -         |       |     | -          | - 1          | -          | ×          | -          |            | 4          |            |            |            |            | KWT    | _           |                   | Santa Ana         | IX         | -          |            |       | A        | X          | X    | XI.        |   | -1 -        | -1  |
| A.   | X          | - 1       |       |     | X          | X            |            |            | -          |            | 3          |            | 18         | ۵          | -          | KFW    |             |                   | Hollywood         | IX         | -          | X          | X     | X        | X          | X.   | X .        | XX                                      | K I)        | 6   |
| -    |            | - 1       |       |     | -1         | - 1          | -          |            | -          | -          |            |            |            |            |            | KFS    |             | -                 | San Diego         | 1 X        | 4          | X          | X     | A        | X          | A    | A          | XX                                      | []          |     |
|      |            | 10        | -     |     | -          | -1           |            |            | A          | X          |            | Ш          |            | -          | -          | KNR    |             |                   | Santa Monica.     | 1          | X          | _          | X     | X        | X          | X    | XI.        | X X                                     | X           | _   |
| -    | K          | X]        | X     |     | 90 .       | -1           | 0          | A          | X          | X          | X          | X          | X          | X          | X          | KFO    |             |                   | Long Beach        | IX         |            | X          | X     | X        | X.         | A)   | AL         | A A                                     | CIX         | 6   |
| - 1  |            | -         |       | X   | -          |              | -          |            | -          |            | -          | -1         |            | 3          | 0          | K F Q  |             |                   | Hollywood         | IX         |            |            | X     |          |            | XL   | XI.        | XIX                                     | ١.          | 4   |
| - 1  | -1         | -1        | -     | -   | X          | X)           | -          | -          |            | -          | -          | -          | - 1        | -          | -          | KFW    |             |                   | Catalina          |            | X.         |            |       |          | -          | DA 7 | - 1        | W =                                     | 1           | -   |
|      | 1          | - 1       | -     | 1   | - 1        | A.Î          |            |            |            |            | 11         | 1.0.7      | _          | -          | X          |        |             |                   | [Venice           | TV         | A          | A          | Al    | A        | A          | Al . | <u> </u>   | X                                       | I A         | 1   |
| _    | _          | _         |       |     |            | _            | _          |            |            | _          |            | _          | 1          | A.C        | K          | THE    | _           |                   | FORNIA            | _          | _          |            |       | 100      |            |      | Z W .      |   | _           | _   |
| - 1  | -1         | -1        |       |     | -1         | -            | -          |            | -          | 9          |            | - 1        |            | -10        | -          | KFB    | 63          | -                 | Secramento        | 1          | -          | - 64       | X     | A        | K          | A!   | X1         | -1                                      | 1 .         | 1   |
| -    |            |           | 3     |     | -1         | .            |            | 4          |            | 7          | -          |            | - 1        |            | 2          | KLX    | 50          |                   | Dakland.          | 1.         | 1 80       | X          | -     |          | -1         | -    | -1         |   | 1           |     |
| . ]  | X          |           |       | X   | M /        | XI           | X          | -          | - 1        |            | X          | X          | A          | X          |            | KPO    |             |                   | San Francisco     | . I X      | -          | -          | X     | X        | A          | AL   | A L        | A D                                     | LI A        | KI  |
| 1    | -1         |           | -     | -   | X          | X            | -          |            |            |            |            |            | -          |            | 1          | KYA    |             |                   | San Francisco     | -          | ,          | - 5        | -     | W        | -          | V    | -          | XX                                      | 1           | Ą   |
| 井    | -          | -1        | X     | X   | XI         | - 1          | X          | -          |            | +          |            |            |            | X          | A          | -      | -           | -0                | Oskland.          | IX         | 2          |            | -     | X        | XI         | XI.  | X L        | XX                                      | X           | 4   |
| X1   |            | -         | -1    |     | - 1        | 91           | -          |            |            | (200)      |            |            | -1         |            | - 1        | KQW    | 33          |                   | San Jose          | IX         | -          | X          | XI    | X        | AI         | 11   | +          | -1 -                                    | 1           | 1   |
| 1.8  | 10         | -         | -     | -   | -          | -            | -          |            |            | -          |            | -          |            | X          | A          | N C M  |             | -                 | Santa Maria       | +-         | X          | -          | - 1   | -1       | 91         | W.   | +          | -1-                                     | +           | 4   |
|      | W 1        | W :       | V     |     | XI         | - 1<br>V 1   | W.         | -          | - 1        | -          |            | N I        | WI         |            |            | KFR    | R   28      |                   | San Francisco     | +5         | X          | 4          | ^!    | 3        | -          | AL.  | -          | W 1 3                                   | FI W        | H   |
| NII. | X          | _         |       | X   | AL.        | A1           | X          |            |            |            |            | A          | X!         | X          | _          | KRE    |             |                   | Berkeley          | -IA        | A          | A          |       | X        | XI         | Al-  | X          | XIX                                     | X           | 4   |
| -1   | 901        | XI        | -     |     | -          | >1           | -          | 97         |            | 4          |            | 3          | .0         |            |            |        |             | -                 |                   | 0          | 0          |            |       |          | AI         | A    | 4          | - 1 -                                   | 1           | 4   |
| 1    | X          | - 1       | - 1   | X   | - 1        | Wi           | W          | X          | -          |            |            | -          | -          |            |            | KFW    |             | -                 | San Francisco     | 1          | 1 9        | 1 90       |       | X        | 91         | ¥ .  | YA         | H X                                     | 7 3 94      |     |
| - 1  |            | -1        | - 1   |     | -          | A            | X          | -          |            | -          | -          |            | -0         | -          | 9          | KZM    |             |                   | Oakland           |            | 1 X        |            |       | 1        | -          | W.   | ^          | 10                                      | A           | 41  |
| - 1  | 35.4       | - 1       | - 1   |     | 1          | =]           |            |            |            | -          |            | - 1        | -          | -          |            | KMJ    | 23          |                   | -                 | -          | A          |            | T     |          | 7          | XI   | X I        |   | 1           | -   |
| 4    | - 1        | - 1       | 0 1   | 9   | -          | +            | -          | -          |            |            |            |            | - 1        |            |            | KFQ    |             | -                 | Holy City, Calif. | +          | -          |            |       | W        | X          | -    | 7          | -                                       | +           | 1   |
| - 1  |            | -         | -     | -   | -          | -            | -          |            | -          |            | 2.7        |            | ) /T       | X T        |            | N AN   |             | _                 | ERN STATI         | 22         | 1          |            | -     | -        | ~          | -1   | +          | - 1                                     | -           | H   |
| 71   | XI         | V.        | -     |     | V          | V.           | -          |            |            | -          | 14         | OF         | -          |            |            | KGW    | The second  |                   | Portland          |            | 1 X        | ¥.         | V)    | WI       | WT.        | VI   | VI         |   | 1           | -   |
| K1   | 1          | XI        | - 1   | X   | 361        | X            |            |            |            | -          |            |            | -          |            |            | WBA    |             |                   | Fort Worth        |            |            | 070        | X     | X        | X          | XI   | X I        | 1                                       | 1           | 1   |
| 1    | - 1        | -         | - 1   | A   | X          | manufacture. | -          | X          |            |            | -          |            | X          |            | 7          | KFO    |             |                   | Seattle           |            | 1 24       | W          | - 4   | X        |            |      |            | X                                       | 1           | 4   |
| 1    | 1          | - 1       | - 0   | 9.1 | A          | 0            | *          | ~          | -          |            | -          |            | ^          | -          | 0          | KEX    |             |                   | Portland.         | -          | X          | -          |       | W.       | _          |      |            | XX                                      | EL W        |     |
| 1    |            | 1         |       | Y   | X          | -1           | -          |            |            |            |            | 1          | -          | ^          | Y.         | CFAC   |             |                   | Calgary           |            | X          | -          | -     | X        | X          | XI   | +          | 1                                       | 1           | 91  |
| - 1  | - 1        | - 1       |       | -   | .1         | 1            | 1          | ¥          | X          | -          |            |            |            |            |            | KHQ    |             |                   | Spokene.          |            | X          |            | -     | 1        | -4         | X    | XI         | +                                       | 1           | 4   |
| 1    | X          | 3/2 (     | 1     |     | -          | - 1          | 1          | -          | -          |            |            | 1          |            | 18         |            | KJR    |             |                   | Seattle           |            |            |            |       | - 1      | W1         |      |            | XX                                      | 1           | 4   |
| 4    | 10         | -         | XI    |     | 1          | 1            | - 1        | 2          |            | Y          | X          |            | 1          | X          | _          | KOII   |             |                   | Portland          |            | X          | Y          | -     | WI       |            | X    |            | 1                                       | I           | 1   |
| -    | W          | X         | -     | _   | X          | XI           | X          | X          | Y          | X          | X          | -          | X          | -          | _          | KOM    |             |                   | Seattle.          |            | -          |            | -     | X        | -          |      | -          | XIX                                     | T W         | 1   |
| 1    |            | 4         | - 2   | -   | 100        | ~            | ^          | -          | -          | -          | -          | ~          | N.         | -          |            |        | -           |                   |                   | -          | -          |            | ~     | 100      | 7          | ~    | 1          | 1                                       | 1           | 1   |
| K    | -          | 3/1       | F 15  | W 1 |            |              |            | <b>H</b> 1 |            |            | W 1        |            |            | -          |            |        | 1 27        |                   |                   |            |            |            |       |          |            |      |            |   |             | 100 |
| İ    | X          | XI        |       | X   | - 4        | -1           |            | X          | X          | A          | X          | Н          | .0         | X          | _          | KOA    | _           |                   | Salt Lake City    |            | I W        | Y          | Y     | W.I.     | 1          | -1   | +          | 1                                       | 1           | - 1 |
| İ    | -          | _         |       | X   | -1         |              | -          |            | A          |            | X          |            |            |            |            | KSL    | 1 30        | 11000             | Salt Lake City    |            | X          | X          | X     | -        | N i        | - I  | İ          | XIX                                     |             | -   |

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RECEIVERS

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### Highland Park

F. & H. RADIO SHOP 6011 York Blvd. GArfield 8962

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### Southeast

MANCHESTER RADIO ELECTRIC SHOP 1522 E. Manchester Ave. DElaware 0460

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# FRIDAY TIME TABLE

ALL TIME TABLES ADJUSTED
TO PACIFIC TIME
(X) Indicates Station Is On the Air

|       | 10-<br>A,1 | 12<br>M. |     |       | 12<br>P.F |           |            |       | 2-<br>P,1 |            |            |            | 4-<br>P.f  |       |            |  | S                     | TATI              |                                  | T         | - 6      | -8<br>M,   |            |       | 8-1<br>P.1 |     | 1     |       | 10-1:<br>P.M |     |
|-------|------------|----------|-----|-------|-----------|-----------|------------|-------|-----------|------------|------------|------------|------------|-------|------------|--|-----------------------|-------------------|----------------------------------|-----------|----------|------------|------------|-------|------------|-----|-------|-------|--------------|-----|
| 00-10 | 30-11      |          |     | 21-00 | -         | 1 00-1 30 | 1 30- 2 00 | 2 -00 | 30-3      | 3 00- 3 30 | 3 30- 4 00 | 4 00- 4 30 | 4 30- 5 00 | 00- 5 | 5 30- 6 00 | CALL   | Wave Length<br>Meters | Power In<br>Watts | STATION                          | 6 00 6 30 | 00 / R B | 7 00- 7 30 | 7 30- 6 00 | 8 -00 | 8          | 8   | 80-10 | 00-10 | 11 00-11 20  |     |
| ,     |            |          |     |       |           |           |            |       |           |            |            |            |            | 50    | U          | THERN  |                       |                   | FORNIA                           |           |          |            |            |       |            |     |       |       |              |     |
|       |            |          |     |       |           | 14        |            | 13    | - 14      | 10         | 6          |            | (4)        |       |            | KELW   | 360                   | -                 | Burbank.                         | ĮX        |          | X          | X          | X     | XI         | X   | X     | al.   | 1            | 1   |
| -     |            | - 1      |     | - 1   |           |           | -          | -     |           | 1 .        | 1.         | 1          |            |       |            | KBEF   |                       |                   | Los Angeles                      | . IX      | -        |            | X          | X     | X          | XI  |       |       | .1           | .   |
| X     | X          | X        |     | -     | -         |           |            |       | -         | 1          | -          |            |            |       | X          | KFI  |                       |                   | Los Angeles                      | IX        | X        | X          | 1          | X     | X          | X   | X     | X     | X            | . ] |
| - 1   | -          | -        | -   | X     | X         | -         |            |       | -         |            |            | 1          | 1          |       |            | KECH   | 1 406                 |                   | Santa Barbara  <br>  Los Angeles | 1         | 1 9      | -          | X          | X     | 9,         | 91  | - I   | -     | -            | -   |
| -     |            | -        |     |       | - 1       |           |            |       |           |            |            |            |            | 7 (   |            | KMIC   | 1 387                 |                   | Inglewood                        | IX        | X        | -          | X          |       | XI<br>XI   | X   | XI    | -     | 1            | -   |
| -1    | -          |          |     |       |           |           |            |       |           |            | 1          |            | 4          | 1     |            | KFBC   | 380                   | Contract of       | San Diego                        | 1         | 1        | F          | 10         | X     | X          | XI  | X     | I     | 1            |     |
| X     | X          |          | X   | X     | X         | X         | X          | X     | X         | X          | X          | X          | X          | X     | _          | KMTR   | 370                   |                   | Hollywood                        | 1 X       | X        | X          | X          | X     | XI         | XI  | XI    | XI    | Xi           | -   |
| - 4   | X          | 1        |     | X     | X         | -1        | X          | X     | X         | X          | X          | X          | X          | X     | X          | KNX  | 337                   |                   | Los Angeles                      | IX        | ) X      | X          | 1 X        | X     | X          | X.  | XI    | -     | -            | K   |
| Ì     |            |          |     | X     | .1        |           |            |       |           |            | 1          |            | -          |       |            | KPSN   | 1 318                 | 11000             | Pesadena                         | IX        | X        | i          |            | X     | X          | X   | i     | 1     | 1            | Ī   |
| -1    |            | - 1      |     | X     | XI        | X         | X          | X     | X         | X          | X          | X          | X          | X     |            | AMB  | 301                   | 100               | Tis Juans, Mex                   | 1         | 1        | X          | X          | X     | X          | X.  | X     | T     | -1           | ij  |
| 1     |            |          |     |       | -1        |           | 1          |       |           |            | -          |            |            |       | -          | KFWC   | 295                   |                   | San Bernardino                   | 1×        | 1 -      | 1 .        |            | -     | - 1        | -   | -1    | 1     | .1           | Ī   |
| . ]   |            |          |     |       | I         | -1        |            | X     | X         |            |            |            |            | -     |            | KTBI   | 294                   |                   | Los Angeles                      | IX        | X        | X          | X          | X     | XI         | 1   |       |       | 1            |     |
| - }   | X          | X        | X   | X     |           |           |            |       | X         | X          | X          | X          | 10         |       |            | KFSG.  | 275                   |                   | Los Angeles                      | 1         | X        | X          | X          | X     | X.         | X   | _1    | X     | XI           | ĺ   |
| 1     |            |          | 9   |       | -         | 1         |            |       |           |            | -          |            |            |       |            | KWTC   | 263                   |                   | Santa Ana                        | 1 .       | X        | 7          |            | -     |            | .1  | -1    | -1    | 1            |     |
| X     | X          |          | 3   | =}    | X         | X         |            |       |           |            |            |            | =          | -1    | X          | KFWB   | , 252                 |                   | Hnily+ood                        | IX        |          | X          | 1 X        | X     | X;         | X   | X     | X     | X 3          | ξ   |
| 1     | 2          | -1       |     |       | 4         |           |            |       |           | +          |            | -          | -          |       |            | KFSD   |                       |                   | San Diego.                       | IX        | -        | X          | X          | X     | X          | X   | XI    | X     | X            |     |
| - [   |            | AND N    |     |       | - 1       | -         |            |       | X         | X          | -          | X          |            | 22    |            | KNRC   | _                     |                   | Santa Monica.                    | IX        | -        | X          | X          | J X   | X)         | X   | X     | X.    | XIX          | (   |
| - 1   | X          | X        | X   | A     | A         | A         | Α,         | A     | A         | A          | A          | 1 ^        | A          | A     | <b>X</b>   |  | 233                   |                   | Long Beach Hollywood             | 1X        | -        | A          | A          | A     | A          | A   | A     | Al    | A   A        | 6   |
| -1    | 101        | -        | -   |       | -1        | -         | -          |       |           | -          |            |            | -          |       | -          | KFQZ   | 219                   | _                 | La Crescenta.                    | IA        | X        | X          | X          | X     | -          | X   | AI    | X     | A .          | -   |
| 늭     | 1          | 1        |     | - 1   | X         | W/        |            |       | - 1       | -          |            | - 1        | - 1        | X     | XI         | The state of the s | 211                   |                   | Cataling                         | i y       | I X      | l X        | 1 1        | 101   | 401        | W.  |       | -1    | 1            | -   |
| 4     | - 1        | -        | -   |       | 2         | -         |            | 1     |           |            | 1 - 1      | X          | X          | 1     | -          | KFVD   | 205                   |                   | Venice                           |           |          |            |            | Y     | WI         | ¥1  | W P   | *1    | XI X         |     |
| - 1   | -          | -        | _   |       |           |           |            |       |           |            |            |            |            | NO    | R          | THERN  |                       |                   | FORNIA                           |           |          |            |            |       |            | 041 |       | 201   |              |     |
| -     | -          | -1       | 7   |       | 7         | -         |            |       |           |            |            |            |            |       |            | KLX  | 508                   | _                 | Onkland.                         | 1         |          | ×          |            | TX.   | Y          | ¥1  | 21    | WI    | - 1          | 7   |
| i     | X          | -        |     | X     | XI        | -1        | X          |       | -1        |            | X          | X          | X          | X     | X          | KPO  | -                     |                   | San Francisco                    | 1 X       | 1 X      | X          | X          | X     | X          | XI  | XI    | XI    | XIX          | e i |
| X     | X          |          |     | -1    | X         | XI        | X          | -1    | - 1       |            |            | -1         | -1         | -1    |            | KYA  | 400                   | 1000              | San Francisco.                   | i.        | X        | X          |            | X     | X          | X   | XI    | -     | X            |     |
| -1    | =1         | i        | X   | X     | X         | 1         | X          |       | 1         |            |            | -          | -1         | -1    |            | KGO  | 351                   | 4000              | Oukland                          | IX        | X        | X          |            | X     | X          | X   | XI    | -1    | -1-          |     |
| X!    |            | -1       |     | -1    | -1        | - 1       |            |       | - 1       |            |            | +          |            | -1    |            | KQW  |                       |                   | San Jose                         | 1 X       | X        | X          | X          | X     | X          | -1  | .1    | 1     | .1.          |     |
| -1    |            | -1       |     |       |           | 1         |            | 4     | _ [       |            |            |            | -1         | X     | X          | KTAB   | 303                   | 1000              | Oakland                          | 1         | 1 -      | X          | -          | X     | XI         | X   | XI    | -1    | 4            | 1   |
| -1    | . ]        | - 1      |     | 4     | - 1       | Ŷ         |            |       |           | 4          |            |            | -          | 1     |            | KBMR   | 283                   | 100               | Santa Marin,                     | 1.        | X        | X          | X          | X     | XI         | X   | XI    | 1     | 1.           |     |
| K)    | KI         | X        | X   | X     | X         | X         | X          | -     | - 1       |            |            | X          | X          | X     |            | KFRC   | 268                   |                   | San Francisco                    | IX        | X        | X          |            | X     | X          | X   | XI    | X     | X X          | (   |
|       | -          | X        |     |       | -1        | - 1       |            |       | -1        |            | 7          | -          | -          |       |            | KRE  | 256                   |                   | Berkeley                         | 1.        | ,        | 100        | 0          | -     | -1         | -1  | -1    | 1     | -10          |     |
| X.    | X          | -1       | -1  | X     | -         | - 1       | 17.        | X     |           |            | 4          |            | -          | 5     |            | KFWH   | _                     |                   | Eureks                           | 1.        | . 50     | -          | _          |       | X          |     |       | -1    | -1           |     |
| -1    | +          | - 1      | -   |       | -         | -         | X          |       |           |            | 1          |            | -1         |       | _          | KFWI   | 250                   |                   | San Francisco. Onkland.          | IX        | X        |            |            | X     | X          | X   | XI    | -1    |              |     |
| - 1   |            |          | -   | -1    | - 1       | -1        |            |       | -         | -          | 0          |            |            | -1    | _          | K Z M J  | 234                   |                   | Fresna                           | +         | X        | -          | 90         | -     | 91         | -1  | - 1   |       | - 1 -        |     |
|       | 1          | -1       | -   | -1    | -         |           |            |       |           |            | B.2        | O          | ) T        | 129   |            |  |                       |                   | ERN STATE                        | 26        | -        | . 191      |            | A     | X          | 共   | _     |       | 21.0         |     |
|       | -          | -        | -   | 7     | 9.        | 4.        |            | X     | WI        | -          | 14         | U          | 11         | 11.0  | _          | KGW  | -                     | -                 | Portland                         |           |          | - 97       |            | 91    | w.         | w.  | UV    | W.    | 016          |     |
| 1     | X          | X        |     | ¥1    | XI        | XI        | -          | XI    | 7         | -1         |            | - 1        | X          | - 1   |            | KFOA   |                       |                   | Seattle                          | 1 4       | -        | -          | Y          |       | M:         | 241 | XI    | XI.   | X X          | 6   |
| 1     | 1          | - 1      | -   | 1     | 1         | ~         |            | 7     | -1        |            | -          |            | -          | 1     |            | KEX  | ALC: NOT THE          | _                 | Purtiand.                        | IX        | -        | -          | X          | -     | XI         | 41  | ~1    | A     | W. W         | -   |
| 1     | 1          | 1        | 1   | -1    | -1        |           |            | -1    | 1         |            |            |            | -          | - 1   | -          | KFXF   | The second second     | THE RESERVE OF    | Denver                           | 1         | _        | X          | -          | -     | X          | X   | XI    | XI    | XX           |     |
| 1     | 1          | -1       |     |       | -1        | -1        |            |       | -1        | - 1        | 4          |            | -1         | . 1   |            | KHQ  |                       |                   | Spokana.                         | IX        |          |            | X          |       | 1          | X   |       | -     | XX           | -   |
| .1    | 1          | 1        | 1   |       | T         | -         |            | -1    | -[        | . ]        |            | 1.1        |            | .1    | -          | KLZ  |                       |                   | Danver                           | X         |          |            |            | 4     | -1         | 1   | 1     |       | 1            |     |
| ti    | XI         | X        | 1   | 1     | 1         | -         |            | -1    | -1        | X          | X          |            | -          | .1    |            | KJR  | _                     |                   | Souttle                          | [X        | _        |            | 1          |       | X          | XI  | XI    | 1     | . [          | j   |
| . 1   | X          | X        | X   | X     | XI        |           | 7          | X     | X         | X          | X          | -          | -          | X     | _          | KOA  |                       |                   | Denver                           | X         | X        | X          | X          | X     | X          |     | 9     | 1     | 1            | j   |
| . 1   | -1         | X        | X   | -1    | -         |           | -          | -1    |           | X          | X          | 4          | +1         | X     |            | KOIN   |                       |                   | Portland.                        |           | X        | _          |            | X     | X          | X   | X     | -     | -1.          | Í   |
| K     | X          | X        | XI  | X     | XI        | X         | X          | X     | X         | X          | X          | X          | X          | X     | _          | KOMO   |                       |                   | Seattle,                         | -         | X        | _          | -          | X     | X          | X   | XI    | XI.   | X   X        |     |
| 1     | -1         | +        |     | -1    | -1        | -1        | 1          | -1    |           | X          | X          | X          | X)         | -1    |            | KSL  |                       |                   | Salt Lake City                   | IX        | X        | X          | X          | X     | X          | -1  | -1    | -[    | -1.          |     |
| -1    | -1         | ul       | 1   | -1    | -         |           |            |       | -1        | X          | 1          | -          | 4          | -1    |            | CNRV   |                       |                   | Vancouver, B. C.                 | 1.        | 1        | X          | X          | X     | X          | X   | XI    | X!    | -1           |     |
| 1     | -          | -        | -   | 1     | -         | -         |            | 1     | -         |            | -          | -          | -          |       | -          |  | -                     | _                 | Walla Walla.                     | 1         | 1 1      | X          | _          | X     | -          | XI  | XI    | XI.   | X X          | 4   |
| -1    | 1          | -1       | -   | -1    |           | -         | 11         | -     | -         | W          | -          | -          | - + 1      | -1    |            | KOAC   |                       |                   | Corvailla, Ore.                  | 1         | 90       | X          | X          | X     | -          | -1  | 1     |       | - [ ]        | 1   |
| X     | X          | -1       |     | -1    | -         | -1        |            | X     | X         | X          | X          |            | -1         |       |            | KMO  |                       |                   | Tecoma                           | IX        | X        | X          | X          |       | _          |     | -     |       | XIX          | -2  |
|       |            |          | - 4 |       |           | - 1       |            |       |           |            |            | -          |            | -     | 4          | REUA   | (4.3.)                | UUU               | OCCUPATION                       |           |          | 100        | -          | I II  | A.         | X.  | XI.   | A .   | XX           | į.  |

43

# Results Like This

Can Be Obtained with an



L. J. WOOLEY
3803 BOYCE STREET

Los Angeles, Calif. March 1st, 1927.

Palmer Radio Co., 4529 South Vermont Ave., 1.os Angeles, Calif.

Gentlemen:

I know you are anxious to know my opinion of the INFRA-DYNE Receiver which you people built for me recently. I have had several sets in my home, but have never been as much pleased as with the INFRADYNE. For tone quality, selectivity and distance, I have only the highest praise. I will not burden you with my log, but will say that I am now getting the various Canadian stations, Detroit, Buffalo, Chicago and New York Stations, all this thru local interference.

I am more than pleased with your workmenship and can recommend the INFRADYNE to anyone wanting a receiver giving quality, selectivity and distance.

Very truly yours, (Signed) L. J. WOOLEY.

We Specialize in the Construction of This Efficient Receiver

# PALMER RADIO LABORATORY

Established 1923

**OPEN EVENINGS** 

4529 S. Vermont

VErmont 7883

Los Angeles

# SATURDAY TIME TABLE ALL TIME TABLES ADJUSTED TO PACIFIC TIME (X) Indicates Station is On the Air

|             | 10-<br>A. | -12<br>M.   |             |             | 12<br>P.    | -2<br>M,  |            |            | P.         |            |            |            | 4-<br>P.I  |            |             |     |        | 8                     | TATIO              | ONS               | T          |            | -8<br>M.   |           |            | 8-<br>P.I |     |      |       | 10-<br>P.J |             |
|-------------|-----------|-------------|-------------|-------------|-------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-----|--------|-----------------------|--------------------|-------------------|------------|------------|------------|-----------|------------|-----------|-----|------|-------|------------|-------------|
| 10 00 10 On | 20-11     | 11 00-11 30 | 11 30-12 00 | 12 00-12 30 | 12 30- 1 00 | 1 00-1 30 | 1 30- 2 00 | 2 00- 2 30 | 2 30- 3 00 | 3 00- 3 30 | 3 30- 4 00 | 4 00- 4 30 | 4 30- 6 00 | 5 00- 5 30 | 5 30- 6 00  |     | CALL   | Wave Length<br>Meters | Power in<br>Wette  | STATION           | 6 00- 6 30 | 6 30 7 00- | 7 00- 7 30 | 7 30-8 00 | 8 00- 8 30 | 8 9       | 8 9 | 8-10 | 00-10 | 36-11      | 11 00-11 30 |
|             |           |             | Τ           |             |             |           |            |            |            | Т          |            |            |            | SC         | U           | T   | HERN   | CA                    |                    | FORNIA            |            |            |            |           |            |           |     |      |       | Ī          |             |
| 4           |           |             |             |             | 4           |           |            | Ι.         | 1 .        |            | 1.         | 1          |            |            |             | K   | ELW    | 560                   | 250                | Burbank           | TX         | X          | X          | X         | X          | X         | X   | X    | - 1   |            |             |
| 1           | -         |             |             | -           | 16          |           |            | 1          | Í,         |            |            |            |            |            | X           | JK  | FI     | 487                   |                    | Los Angeles       |            | X          | X          | X         | X          | X         | X   | X    | X     | X          | X           |
|             |           |             |             | X           | X           |           |            | 1 -        |            |            |            |            | 4          |            |             | 2.1 | FCR    | 413                   | 50                 | Santa Carbara     |            |            | -          | X         | X          |           | -1  | . 1  | .1    | . ]        |             |
| 1           |           |             |             |             |             |           |            | Ŷ          |            |            |            |            |            |            |             |     | HJ     | 405                   | No. of Concession, | Los Angeles       | 1          | X          | X          |           | X          | X         | X   | X    | 1     |            |             |
| 1           |           |             |             |             |             |           |            |            |            |            |            |            |            |            |             | -   | MIC    | 387                   |                    | Inglewood         |            | X          | X          | X         | X          | X         | X   | X    |       |            |             |
| 1           |           | X           | X           |             | . No        | · M       | -          | -          |            |            |            |            | 2          |            | -           | K   | -      | 380                   | -                  | San Diego         |            | 1.         |            | L         | X          | X         | X   | X    | X)    | X          | X           |
| 0           | -         | -           | X           | A           | A           | X         | X          | X          | X          | X          | X          | I A        | X          | A.         | X           |     | MTR    | 1 370                 |                    | Hollywood.        |            | -          | -          | X         | X          | X         | X   | X    | X)    | X          |             |
| 8           | X         |             |             | X           | A           |           | X          | IA         | -          | -          |            | LA         | A          |            |             | -   | FSN    | 237                   |                    | Los Aspries       |            |            | X          | A         | A          | A         | X   | X    | X     | X          | X           |
| 4           | - 1       |             | - "         | H           | ¥           | X         | X          | 1 Y        | Y          | - 92       | W.         | l V        | Y          | X          | -           | _   | MB     | 301                   |                    | Tin Juena, Mex    | X          | X          |            |           | X          | A         | X   | -    |       | _          | -           |
| 1           | - 1       | -           |             |             | -           |           | -          | 1          | -          | 9%         |            | -          | -          | ~          | -           | -   | -      | 223                   |                    | Santa Maria       | 1          | -          |            | N I       | -          |           | -1  | -    | -     | - 1        | -           |
| 1           | X         | X           | H           | X           |             | -         |            |            | X          | X          | X          | XI         | - 1        | 44         |             | ik. |        | 275                   |                    | Los Angeles       | 1          | X          | X          | X         | X          | X         | X   | -    | 1     | - 1        | -           |
| 1           | -         | -           | 0.0         | -           |             |           |            |            | -          | -          | -          | 10.1       | - 1        |            | -           | 9   | WTC    | 263                   |                    | Santa Ana.        |            |            | -          | -         | X          | Y         | XI  | Y S  | 1     | -          | X           |
| 1           | -         |             |             |             | X           | X         | -          |            |            |            | 1          |            |            |            | -           | IK. |        | 282                   |                    | Hollywood         |            |            | X          | X         | X          | H         | X   | XI   | XI    | X          | _           |
| ì           | -1        |             |             |             |             | ) .       |            | 1          | 1          | 1          | 1          |            |            | 1          | 1           |     | FSD    |                       |                    | San Diego         |            | 8          | X          | X         | X          | X         | ×   | X    | X     | X          |             |
| i           |           |             |             |             | . 1         |           |            |            | X          | X          |            | X          |            |            |             | K   | NRC    |                       |                    | Santa Monica      |            |            | X          | X         | X          | X         | X   | X    | XI    | X          | X           |
| i           | XI        | X           | X           | X           |             |           | X          | X          | X          | X          | X          | X          | X          | X          | X           | įΚ  | FON    | 233                   |                    | Long Beach        |            |            | X          | X         | X          | X         | X   | X    | XI    | X          | X           |
| Ì           |           |             | -           | X           | X           |           |            |            |            |            |            | 0          |            |            |             | ĮΚ  | FQZ    | 226                   |                    | Hallywood         |            | X          | X          | X         | X          | X         | X   | X    | X     | X          |             |
| ĺ           | . 1       |             | -           |             | -           |           |            |            |            | -1         |            | a          |            | 1.1        | X           | K   | FYF    | 214                   | 25                 | Oxnard, Colif     | İX         | 1 .        | 1          |           | 1 :        | 1 .       | -   |      |       |            |             |
| Ā           | 1         |             | . 1         |             | X           | X         | -1         |            | . 1        | X          | X          | X          | - 1        |            | 1           | IK  | FWO    | 211                   |                    | Catalina          |            |            | X          |           |            |           | . [ |      |       |            |             |
| Į           |           |             |             |             |             | X         | X          |            | -          |            |            |            | - 1        | -1         | 0           | K   | FVD    | 205                   | 500;               | Venice            | IX         | X          | X          | X         | X          | X         | X   | X    | X     | K          | X           |
|             |           |             |             |             |             |           |            |            |            |            |            |            | 1          | NU         | R           | T   | HERN   | CA                    |                    | ORNIA             |            |            |            |           |            |           |     |      |       |            |             |
| Ĭ           | -1        |             |             |             |             | 9         | -          |            | 0          | 9          |            |            | - ]        | 0.         | _           |     | FBK    | 535                   | 100                | Sacramento        | -          |            | -          | X         | X,         | X)        | X   | IX   | -1    | . [        | ,           |
| Ì           | .1        |             |             | 1           | 1           |           |            |            |            | . [        |            |            | 0          |            | -           |     | LX     |                       |                    | Oakland           |            |            | X          |           | 10         | 15        | -1  | - 1  | 1     | -1         |             |
| Ì           | X1        | -1          | -           | H           | 1           | X         | X          |            |            |            | X.         | X          | X          | X          | -           | F   | PO     |                       |                    | San Francisco     | IX         | X          | X          | X         | X          | X         | X   | X    | X     | X          |             |
| -           | 11.       | 11          |             |             | X           | X         | X          |            |            | -          |            |            |            | -          |             |     | YA     |                       |                    | San Francisco     |            | X          | X          | -         | X          | X.        | X   | XI   | X     | X)         | X           |
| 1           |           | -1          | X           | X           | X           |           | -          |            | -          | -          | -          | 9          |            |            |             |     | GO     |                       |                    | Oakland           | -          | 1 .        | -          | -         | X          | X         | X   | X    | X     | X)         | X           |
| 1           | . ]       |             |             |             | -           |           | -          |            |            |            |            | 2          |            | -          | THE RESERVE | K   | D. Mr. |                       |                    | San Jose          | [X         | X          | X          | X         | X          | X         |     |      | -1    |            |             |
| 1           | - 1       | - [         | -           | -           | -           | -         | 90 (       |            |            | -          | -          |            | -          | 94         |             | 2   | TAB    | _                     |                    | Oakland           | 1 1        | - No       | X          | -         |            |           |     | - 1  |       |            |             |
| Į           | 0         | DA I        | -           | X           | A           | X         | X          |            | 1          |            |            | A          | A          | A          | -           | K   | FRC    | 288                   |                    | San Francisco.    | IX         | X          | X          | - 1       | X          | X         | X   | X)   | X     | X          | X           |
| Į           | 14        | X           |             |             |             | - 1       |            |            |            | -          |            | -          |            | 0          |             | K   |        |                       |                    | Serkeley          | 1          | 100        | 2          | -         |            |           | -1  | -    | -1    | -1         |             |
| ł           |           |             | - 10        | -           | *           |           | X          | X          |            |            | -          | -          | - 1        | -          |             | K   | FUS    | 258                   |                    | Oaktand           |            | X          | X          |           |            |           | - 2 |      | N.    | -          |             |
| ļ           |           | -           | -           |             | - 1         | -         | - 1        |            |            |            | - 1        | - 1        | - 1        | - 1        |             |     | ZM     |                       |                    | Oakland           | -          | - 1        | -          | 0         |            |           | A   | Al   | X     | X          | X           |
| ŀ           | - 4       | -1          | 101         | -27         | - 4         | -         |            | -          |            |            | -          |            | -1         |            |             | _   | MJ     | 234                   |                    | Fresno            |            | X          | -          | 0         | -          | -         | W   | V.   | -1    | -          | 0           |
| ļ           |           | - 21        | -           | -           | • ]         | 4         | - 9        | 2          |            | 10         |            |            | -          | -          | _           | -   | FQU    | 231                   |                    | Holy City, Calif. |            |            |            | -         |            | X         | X   |      |       | 0          | - 6         |
| ļ           | W 1       | . 1         | -           | X           |             | -         | -          | X          |            | -          |            |            | 2          | -          | own lines   | _   | FWH    | 225                   |                    | Eureka            | 1          |            | -          |           | 00         | -         | -31 | -    | -     | - 1        | -           |
| 4           | Α.        | 1           |             |             |             |           | -          |            |            |            | N          | OB         | T          | Н          | _           | -   | AND    | _                     |                    | ERN STATE         | S          |            |            | -         |            |           | -   | -    | . [   | - 1        |             |
|             | X         | X)          |             | -1          | XI          | X         |            |            |            |            | -          | -          | - 3        |            | _           | -   | GW     |                       |                    | Portland          | _          | X          | X          |           | X          | A:        | X;  | XI   | XI    | XI         | X           |
| ì           |           |             |             | 1           |             |           |            | X          |            |            |            | -          | X          |            | 0           | 1K  | FOA    | 454                   | 1000               | Seattle           | 1          | X          | _          | X         | -          | X         | _   | - 1  | 1     | 1          |             |
| 1           | . 1       | -1          |             | -           | -,1         | .1        | I          | 1          |            |            | -1         | 1          | -          | -1         | X           | IK  | EX     | 4471                  | 4000]              | Portland          | X          | X          | X          | X         |            | -         | -   | XI   | XI    | X          | X           |
| l           | -1        | .1          |             | 1           | 1           | -11       |            |            | - 1        |            |            |            | . 1        |            |             | K   | FXF    | 422                   | 1000               | Denver            | 1.         |            |            |           | -          | -         | X   | XI   | -     | X          | -           |
| 1           | .1        | -1          | T           | 1.          | - 1         | i         | 1          |            | 1          |            | -          |            | 1          |            |             | C   | KCD    | 410                   | 2000               | Vancouver, B. C.  | 1          |            |            |           |            | X         |     |      | 1     |            | -           |
| Ì           | .1        | .1          |             |             |             | -1        |            | X          | X          | 1          | - 1        | -1         | -          | - 1        |             | K   | HO     | 3941                  | 1000               | Spokane           | X          |            | . ]        |           |            | -1        | . 1 | . 1  | .1    | . 1        |             |
|             | X         | X           |             | 1           | -1          |           | - 1        | -          | 1          | - 1        | -1         | .1         | -          | 0          |             | -   | JR     | 294                   | 2014               | Seattle           | X          |            | 4          |           |            | 4         | XI  | X    | X     | X          | X           |
|             | ,         | -1          | 1           | 7           | . ]         |           | . 1        | ,          | -          | -1         |            | -1         | 5          | -          | _           | 1   | LZ     | 384                   | 500]               | Denver            | 1.         | -          | X          | X         | X          |           | -   | -1   | -1    | 4          |             |
| 1           | X         | XI          | X           | X           | . [         |           | - [        | -          |            |            | . 1        | . 1        | , [        | X          | X           | K   | OA I   | 322                   | 5000               | Denver            | [ .]       | -          |            | -         |            | -         | -   | X    | X     | X          | =           |
| 1           | -         | X           | X           | 4           | -1          | . ]       |            | 1          |            | X          | X          | . [        |            | Xi         | -           | _   | OIN    | 319                   | 1000               | Portland          |            | X          | X          | X         | X          | X         | X   | X    | XI    | X          | X           |
| 1           | . 1       | -           | XI          | X           | X           | X         | X          | X          | X!         | X          | X          | XI         | X          | X          |             |     | OMO    | 308                   | 1000               | Seattle           | X          |            | -          | Ä         | X          | X         | XI  | X    | XI    | X          | X           |
| 11111       | X         | X           |             |             |             |           | - 4        |            | - 1        | - 1        |            | - 1        | - 1        | - 1        |             | IK  | SL     | 300                   | 10001              | Sait Lake City    | IX         | X          | X          | X         | X          | X         | XI  | XI   |       | .1         |             |
| 11111       | X         | X           | -           |             |             | -         |            |            | -          |            | 0          | 1          |            | 9 1        | _           |     |        |                       |                    |                   |            | -          | -          |           | 100        | Sec.      | -   |      |       | -          |             |
| i           |           | X           | -           | I           |             |           | XI         | X          |            | .]         | . 1        |            | .1         | -1         |             | K   | FJR    | 263                   | 50                 | Portland          |            |            |            |           |            |           | .1  | . 1  | -1    |            |             |

Counterphase for DX: H. A. EVEREST, 1032 N. Ogden Dr. GR. 9915



Rear view above shows large compariment with ample space for bat-teries, battery charger, or a re entirely concealed from view. Back is open for contilation of har-teries.



This Window Come Laurispeaker Compute to equipped with a 22-lack Window Come Laurispeaker. The top is 30 to. x 17 to. and is 25 in. high. The bettery shelf provides ample space for batteries, charger, bettery eliminator and other equipment. Beautifully finished in either Mahassany or Walnut poles.



Above is shown the Cone Lendspeaker, with its rand easily removable, al-lowing access to all bat-teries, battery charget, battery climinator or other equipment and wir-

Model 200

\$35

Console with Cone Loudspeaker Ready for Set and Batteries

# A Revelation in Radio Reproduction



beauty, just as it entered the microphone.

This 22 inch Windsor Cone Loudspeaker will reproduce the nortest erooning luthing in a softly lighted room, or the full throated march music of a band to an auditorium both with perfect factorial and rooms. feet fidelity of sound and tone. The Witnesser Cone Laudspeaker Console is the greatest value in the world of radio. When compared with the average cost of cone-type londspeakers of even similar size, the cost of the complete Windsor-cone loudspeaker and console its amazingly low.

As a piece of furniture, the Windsor Con- Landapeaker Console is of such manifest high

At last - a cone loudspeaker that reproduces all the tones as they are broadcast. Frum the deep voiced tuba of an orches-tra to the softent note of a deep voiced tuba of an orchestra to the softent note of a to be a welcome addition to vocal solo—every tone—every any home. Finished in blahousound is reproduced in all its any or Walnut color.

## WINDSOR FURNITURE

World's Largest Manufacturers and Originators of Loudspeaker Consoles

1420 Carroli Avenue, Chicago, Illinois Los Angeles Branch: 917 Maple Avenue The Windsor Cone and Horn Loudspeakers, combined with attractive pieces of furniture in many models, are being demonstrated strated by recognized dealers everywhere. Go to your dealer today and examine this autonish-ing new Cone Loudquesker Con-sole. If he happens not to have one, write to us and we will tell you the name of the nearest store at which you can see and hear one.

### NOTE TO DEALERS

Write or wire today for details of the highly profitable Windsor selling line.

| R, D. 27                          |
|-----------------------------------|
| WINDERS FURNITURE                 |
|                                   |
| Electrical Department,            |
| 917 Maple Ave., Los Angeles.      |
| Send on FREE and without          |
| obligation circulars of the Wind- |
| sur line of Cone and-Horn Loud-   |
| speakers combined with prices of  |
| furniture, and name of marer      |
| dealer.                           |
| <del>-</del>                      |
| Name                              |
| Address                           |
|                                   |
| Dealer's Name                     |
|                                   |
| City                              |
|                                   |
|                                   |

# Schedule of DX Stations

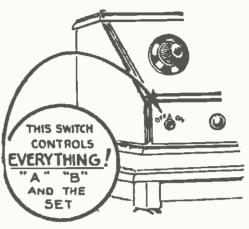
|  | Location           | W. L.<br>Meters |                     | Sun.       | Mon.               | Tue.         | Wed. | Thu.                | Fri.         | Sat      |
|--|--------------------|-----------------|---------------------|------------|--------------------|--------------|------|---------------------|--------------|----------|
|  | Chicago            |                 | 1500                | 610        | S.                 | 610          | 6—10 | 610                 | 67           | 61       |
|  | Chicago            |                 | 1000                |            | 4-6                |              |      |                     | 1012         |          |
| wowo   | Ft. Wayne, Ind     | 227             | 1000                |            | 59                 |              | 59   | 5-9                 |              |          |
| WHT  | Chicago            | 238 - 400       | 3500                |            | S.                 | 8-10         | 810  | 810                 | B-10         | 8-1      |
| WWAE   | Plainfield, III    | 242             | 5000                | S.         | 6-9                | 6-9          | 6-9  | 69                  | 69           | 6-9      |
|  | Grand Rapids, Mic  |                 | 1000                |            |                    |              |      |                     | 8-10         | 8-1      |
|  | Baltimore, Md      |                 | 1000                | 5-6        | 5-9                | 5-9          | S.   | 59                  | 5-9          | S.       |
|  | Richmond, Va       |                 | 1000                |            | 6-8                |              | 6-8  | 6-8                 | 68           | - 111    |
|  | Milwaukee          |                 | 5000                | _          | 6-8                |              | 88   | 6—8                 | 6—8          |          |
|  | San Antonio, Tex.  |                 | 6000                | _          | 8-9                | _            | 8-9  | · ·                 | 8-10         | _        |
|  | Chicago            |                 | 1000                | _          | 6-8                | 6-8          | 6-8  | 6-8                 | 6-8          | 5-8      |
|  |                    |                 | 1500                |            |                    | 56           | 56   | 56                  | 5-7          | 56       |
|  | Detroit            |                 |                     | 4-6        | S.                 | 5-7          |      |                     |              |          |
|  | .Honolulu          |                 | 500                 |            | 5-7                |              | 5-7  | 6-9                 | 6-9          | S.       |
|  | Cleveland          |                 | 1000                | 9—11       |                    | 11-12        |      | 9-11                | 9—11         | 9-1      |
|  | Boise, Idaho       |                 | 750                 | 5—7        | S.                 | 5—8          | 5—7  | 5—8                 | 5—6          | 5-8      |
|  | St. Louis          |                 | 5000                |            |                    | 7-9          |      | 7-9                 |              |          |
|  | Nashville, Tenn    |                 | 1000                | 4—11       | 411                | 4-11         | 4-11 | S.                  | 411          | 4-1      |
|  | Mlami, Fla         |                 | 5000                |            | 8-10               |              | B—10 |                     |              | 8-1      |
|  | Atlantic City      |                 | 5000                | 5-10       | 5—9                | 5-9          | 510  | 6-9                 | S.           | 5-1      |
| WGN  | Chicago            | 303             | 1000                | 6-8        | 5-9                | 59           | S.   | 59                  | 5-9          | 5-9      |
| WLIB   | Chicago            | 303             | 4000                | 6-8        | 8-9                | 6-9          | 6-9  | 69                  | 6-9          | 6-9      |
| KOIL   | Council Bluffs     | 306             | 500                 |            |                    | 6-9          | 6-9  | 69                  | 69           | 69       |
|  | Pittsburg          |                 | 1000                |            | 511                | 8-10         | 8-10 | 8-10                | 8-10         | 81       |
|  | New York           |                 | 5000                | S.         | 6-9                | S.           | 6—9  | S.                  | S.           | 9-1      |
|  | Chicago            |                 | 1500                | 57         |                    | 610          | 5-9  | 6-7                 | 5-7          | 57       |
|  | Springfield, Mass. |                 | 2000                |            |                    | 6-9          | 6-9  | 6-9                 | 6-9          | 6—1      |
|  | Lincoln, Neb       |                 | 1000                | 4-7        | 5-8                | 5-9          | 5-9  | 59                  | 5-9          | 5-9      |
|  | Chicago            |                 | 5000                |            |                    | 6-9          |      | 6-9                 |              | -        |
|  | Detroit            |                 | 1000                | 6-9        |                    | 69           | 6-9  | 6-9                 | 6-9          | 6-9      |
| The second secon | Kansas City        |                 | 1000                | 4-7        | 6-7                | 5-7          | 5-8  | 5-8                 | 58           | 5-8      |
|  | Mooseheart, Ill.   |                 | 1000                | S.         | 611                | 6—11         | 6-11 | 611                 | 6-11         | 6-1      |
|  |                    |                 | 500                 | Q.         | 011                | 6-11         | 6—11 | 611                 |              | 6-1      |
|  | Laramle, Wyo       |                 |                     |            | 8-10               | 0-11         | 8-10 | 011                 | 6—11         | 0-1      |
|  | Hot Springs, Ark.  |                 | 1000                | 9 40       |                    | 9 40         |      |                     | 8—10         | 9 0      |
|  | Schenectady, N.    |                 | 5000                | 7—10       | 7-10               | 7-10         | 7-9  | 79                  | 710          | 7-9      |
|  | Cleveland          |                 | 1000                | 6—7        | 8.                 | 69           | 5-9  | 5-9                 | 5-9          | 5-9      |
|  | Gleveland          |                 | 1000                | 5—9        | 5-6                | 5—9          | 6-10 | 5-9                 | 5-9          | 6—1      |
| The second second  | San Antonio, Tex.  |                 | 5000                | 5-7        | S.                 | 58           | 6—8  | 6-8                 | 68           | 5.       |
|  | Havana, Cuba       |                 | 1000                | 5—7        | 5-9                | 5-8          | 5-8  | 58                  | 5—8          | 5-7      |
|  | Mexico City        |                 | 1000                | 5-7        |                    | 5-8          |      | 5-8                 | 5—8          |          |
| KFQB   | Ft. Worth, Tex     | 412             | 2500                |            | 6-10               | 6-10         |      | 6-10                | 510          | 6-1      |
|  | St. Paul, Minn     |                 | 5000                |            | 58                 | 5-8          | 5—8  | 5-8                 |              | 58       |
| KFXF   | Denver             | 422             | 500                 | S.         | 5-11               | 511          | 5-11 | S.                  | 5-11         | 51       |
| WLW  | Cincinnati         | 422             | 5000                | 4-6        | 4-7                | 4-7          | 4-9  | 4-10                | S.           | 4-7      |
| WSB  | Atlanta, Ga        | 428             | 1000                | 4-6        | 5-9                | 5-9          | 59   | 5-9                 | 5-9          | 59       |
| WQJ  | .Chicago           | 447             | 500                 | 5-7        | S.                 | 7-11         | 7-11 | 7-11                | 7-11         | 7-1      |
|  | Chicago            |                 | 1000                | S.         | 4-5                | 4-8          | 4-8  | 4-B                 | 4-9          | 4-9      |
|  | New York, N. Y.    |                 | 50000               | 48         | 5-9                | 5-9          | 5-9  | 5-9                 | 5-9          | 5-9      |
|  | .Ft. Worth, Tex.   |                 | 1500                | 7-9        | 7-10               | 7-9          | S.   | 7-10                | 7-10         | 71       |
|  | Mexico City        |                 | 1000                |            | 7-9                | 7-9          | 7-10 | 7-9                 | 7—9          | 71       |
|  | Davenport, Iowa    |                 | 5000                | 49         | S.                 | 5-9          | 5-9  | 5-9                 | 59           | 5-8      |
| The second second  | New York City      |                 | 5000                |            | 5-9                | 5-9          | 5-9  | 5-9                 | 5-9          | 5-9      |
|  |                    |                 | 5000                | 7-8        | S.                 | 5-7          | 7-9  | 6-7                 |              |          |
| WJK  | Detroit            | Ent             |                     |            |                    |              |      |                     | S.           | 8-9      |
| MITTIAL  | Omaha              |                 | 1000                | 7-9        | 7-9                | 79           | S.   | 7-9                 | 7—9          | 7-9      |
|  | BIAM YORK CIEW     | .,. 526         | 1000                |            | 5-8                | 5-8          | 58   | 5-8                 | 5-8          | 58       |
| WNYC   |                    |                 |                     |            |                    |              |      |                     |              | 8.       |
| WHO  | Des Moines         | 526             | 5000                | 5—8        | 5-10               | 5-10         | 5—10 | 5-10                | 5—10         |          |
| WNYC<br>WHO  |                    | 526             | 5000<br>3500<br>500 | 6—9<br>5—7 | 5—10<br>4—5<br>6—8 | 5—10<br>5—10 | 5—10 | 5—10<br>5—10<br>5—7 | 5—10<br>6—10 | 61<br>58 |

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# Latest Products RADIO CONTROL SWITCH



The Acme Control Switch is entirely automatic, positive in action and compact in design, presenting a neat, attracappear-There tive ance. is nothing of a complicated nature to cause anv rouble.



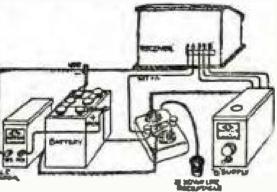
Acme Control Switch

Type ACS—1 for 6 Volt Tubes

Type ACS-2 for 4 Volt Tubes

Each \$4.50

Complete



When this switch is connected to the receiving set, which only requires a few minutes, and your set is turned on, the Trickle Charger is automatically disconnected, and the B-Power Unit is connected to the set and A-C supplied to its turned off the Trickle Charger is connected to the Storage Hattery and will immediately start charging the "A" Battery, and the "R" Eliunator is disconnected from the set and the A-C line.



# ACME TWO-RATE TRICKLE CHARGER

This trickle charger has been designed to serve the larger radio receiving sets and with this charger there may be obtained two charging rates by simply throwing the toggle switch on the outside of charger from one position to the other. The charging rates delivered are of ½ ampere and 1½ amperes. This charger uses a 2 ampere tungar bulb with a specially designed transformer.

Type AT-2, 60 Cycle, \$15.75

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You need not buy an expensive Radio to get 100% / Radio Performance .

The Stewart-Warner Corporation, with over 20 years' experience in the manufacture of precision electrical and magnetic equipment, has produced a complete line of radio equipment sold under the name of Stewart-Warner Matched Unit Radio. Each unit in the entire line, whether it be the 3 dial receiving set with the U. B. Navy circuit pictured here, the new cone type reproducer shown with the receiver, or the double tested Stewart-Warner radio tubes...each unit is carefully matched in performance with the others to insure a 100% efficient radio combination.

Tremendous production volume has made it possible to sell Sievart-Warner radio at prices that are consistently lower, when performance and quality is considered, than you could reasonably expect. A demonstration of Matched Unit radio in your own home will prove to you, convincingly, that a Stevart-Warner radio of reasonable price will sait your purpose as well as one contag twice as much, or more. Any Stewart-Warner dealer will gladly arrange such a demonstration.

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Receiver Model 300 - 6

New Reproducer-Model 415 -\$3150

# NOW! Radio simplified at last!!! Just turn on the power and one dial brings in everything on the air

Everyone has been waiting for a really simplified radio. Here it is. Nothing could be easier to operate than this new Holmes creation. Everything is contained in one handsome cabinet and all you need to do is turn the off-to-loud switch and revolve one dial. In half a minute you can bring in every station on the air and decide which you want in a jiffy. Stations come in loud and clear because Philco Socket Power eliminates batteries and gives you full power always. Marvelous tone reproduction through Holmes Cone Speaker.

This is the most sensational radio offering of the year. It's months in advance. Everybody knew it was coming-now see ithear it at your dealer's. Demonstrations in your home can be easily arranged because there is no installation difficulty.

What this sensational combination includes-



### Model 41 Rotofor-Radio

Built of solid Tabasco Mahogany in two-tone antique mahogany finish to match almost any furniture. The original spe-

### 5 CeCo Tubes

Tubes matched and tested by A. J. Tobey experts. This matching insures full power and tone.

### Phileo Socket Power

-does away with A and B batteries. No more recharging—no hum—no distortion.
Plugs in on house light current. Always

### Holmes Cone Speaker

recognized as the finest type of reproducer obtainable. Built into cabinet.

(cash price)



Offered now by all dealers on easy payment terms.

### No Batteries-

Operates on Philco Socket Power.

### **Only Two Moving Parts**

Radio's off-to-loud switch turns on current as well. Every station on the air comes in with one complete turn of the one dial. That's all there is to it!

### Everything built in one Cabinet-No unsightly horns or batteries-

The Philco Power is built inside radio cabinet and speaker is built in. Only one cord connection to light socket and aerial and ground connection.

### Guaranteed Installation-

Every set is assembled, double tested and inspected by the factory and the A. J. Tobey Co. before delivery. Your dealer will deliver this set to your home and demonstrate it at any time. It is guaranteed to be satisfactory.

Originated and developed by the International Radio Corporation and the

a. J. Tobey Co.

If your dealer has not this set on display, phone A. J. Tobey Co. at WEstmore 4038 and ask for demonstration.

We will get in touch with your dealer and arrange it immediately. No obligation.



LEBLIE ADAMS

## Los Angeles, California—467 Meters

4000 WATTS-640 KILOCYCLES

Radio Central Super-Station of Earle C. Anthony, Inc. 1000 S. Hope. Phone WE. 0331. After 5 P.M., WE. 0337 Class "B" \$000-Watt W. E. Sta., Operating on 4000 Watte

ROBERT HURD, Program Manager

DAILY EXCEPT SUNDAY-

6:18 p. m.-Radiotorial.

8:30 p. m .-- Veet Pocket.

MONDAY, WEDNESDAY AND FRIDAY-

KF! Woman's Interest Dept. Under the Direction of Agnes White.

10:20 to 10:40 a.m.—Furnishings for the home by Agnes White, director of the Dept. 10:40 to 11:00 a.m.—Betty Crucher—Gold Medial Flour Home Service Talks.

SUNDAY, MARCH 20 10:00 a. m. -- Morning services under direction

of Los Angeles Church Federation.

Temple Baptist 11:00 a. m. Services by Church.

2:45 p.m.-Standard Oil Company of Callfornia, presenting the San Francisco Symphony Orchestra, Alfred Hertz, conductor; broadcast simultaneously by KFI, KPO. and KCO.

6:00 p.m.—Program by Russian Academy of Musical Art Trio, with Borns Myranoff, piano; Mischa Speigel, violin, and Alex

Borrisoff, 'cello.
6:58 p. m. Father Ricard's Sunspot Weather Forecast.

r Forcast,
7:00 p.m.—Acolian Organ Recital, Alex
Reilly at the consule, with John Claire
Montetth, baritone sololet, with the organ.
8:00 p.m.—Packard Classic hour. Frogram
by Louise Caselotti.
9:00 p.m.—Bob Bottger and his orchestra.

10:00 p. m .- Packard Six Orchestra. Hennessey, director; Dolly MacDepald, soloist.

MONDAY, MARCH 21

5:30 p. m.—Matinee program. 6:15 p. m.—George Wilder Cartwright, talks on the Constitution of the United States.

\*6:30 p. m.—Gamuet Male Quartet.

7:00 p. m.—Jahnston & Farrell's Music Box.
Hour, direction of Gene Johnston, with the
Jim, Jack and Gene Trio, and soloiets.

8:00 p. m.—Song Recital, by Mathilda Pre-

22nt and Robert Hurd.
2:00 p. m.—Mrs. Edward C. Crossman, contraito: Lenline Walton, concert planist:
Orline Burrow, violinist.
10:00 p. m.—Frouram by Meiklejohn Bros.
TUESDAY, MARCH 22
8:30 p. m.—The Dragon Hawaiians.
6:00 p. m.—Ruth Raynor, vocalist and

planiet.

pisnist,
6:15 p. m.—Prof Carl S. Knapf, archeologist.
6:30 p. m.—Bertha Milier English, pienist,
Katherine Spangler and Elaine Ruth.
7:00 p. m.—Hale Hooper, tenor, and the Los
Angeles Fire Department Orchesirs.
8:00 p. m.—Gattone String Quartet, with
James Burroughs, tenor, and Charles
Myers, accompanist and pisnist.
9:00 p. m.—Thomas Wallace, baritans: The
Musical Three, and Wilms Pothoff.
10:00 p. m.—Agure Music Club, Edna Cook.

10:00 p. m.—Azure Music Club, Edna Cook, Blues Singer, and Glenn Edmunds and his Collegiant Dance Orchestra.

WEDNESDAY, MARCH 23
5:30 p.m.—Sebastian's Cotton Club Orch
6:15 p.m.—Radiotorial period.
6:30 p.m.—Silvertone Ladies' Quartet.

WEEK COMMENCING SUNDAY, MARCH 20, 1927
MARCH 20 7:00 p.m.—Ray Fisher's Original Victorians.
services under direction 7:30 p. m.—Nick Harris Detective Stories. 7:30 p. m. Helen Guest, ballad singer.

6:00 p.m. — Program, presenting Calpet String Quartet, Chico DeCerde, director; Calpet Male Quartet on the California Pe-

traisum Carperation program. 9:00 p.m.—Gleaner Quartet. Dorothy Nystuon, concert pianist; J. Ross Muckemzie. baritone: Everett Anderson

10:00 p. m. Sunset Instrumental Dorothy Ruth Miller, concert planist; Virginla McCoy, contra-contralto.

THURSDAY, MARCH 24 5:30 p. m.—Legion Night Club Orchestra.

6:15 p.m.—Radiotorial period. 6:30 p.m. — Clarica Russell and Leelle

Adams, popular music. 7:00 p.m.—Program by University of Southern California.

8:00 p.m.—KFI Drama Hour. 9:00 p.m.—J. Maurice Woods, haritone; Robert Young, solo pianist; Narma Wabb.

10:00 p.m.—Program of modern classical mu-sic, Lurelle Ferested, violinist; Pastel Trio: Kitty Short, soprano. FRIDAY, MARCH 25 8:30 p.m.—Eugene Biscailur's program

6:15 p. m .- Madame Nelson, psychologist.

6:30 p.m .- Starke Sisters.

7:00 p.m.-Anolian Organ recital, Reilly at the console.

8:00 p.m.-Program by Paul Roberts and Leslie Adams.

den, controlto; Lilyan Ariel, planist, and the Muriel Dae String Quintefte.

10:00 p.m.—Packard Ballad Heer. Emma Kimmel, coprano; Plarry Rowe, baritane; Edna Biles, controlto; Doris Greenwood, accompanist accompanist.

SATURDAY, MARCH 26

5:30 p. m .- Del Monte Orchestra. 6:15 p.m.—Francis Sullivan, Sterary talks. 6:30 p.m.—A Beethoven Centennial program.

erranged by Feodor Kolin.
7:30 p. m.—Felipe Delgado, baritone, with

Edna Clark Muir. piunist. 8:00 p. m.—Harriet Henderson. Robert Hurd, tenne: L Earl Meeker. Will Carroway, planist, and the Mission Bell Orchestra; Pryor Moore, director, on the Los Angeles Soap Company program, broadcast simultaneously by KFI and KPO.

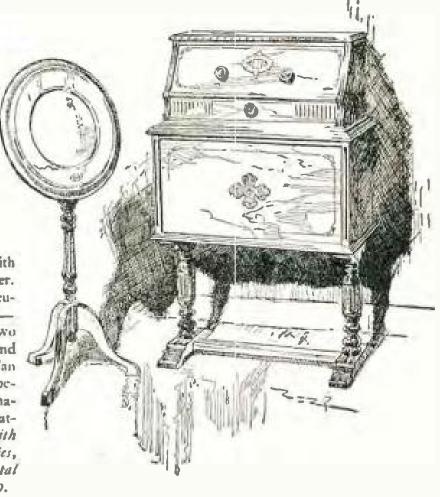
9:00 p.m.—Los Angeles philharmonic Or-chestra; Virginia Flohri, soloist, with the

period. orchestra.
adies' Quartet. 11:00 p. m.—KF1 Midaight Frolic.
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Program Published as Submitted by the Station.

# Gilfillan Radio

Attractive territory still open to live dealers

GILFILLAN 10—with base and Rola cone speaker. A powerful, compact Neutrodyne set. Five tubes—one a "power" tube. Two stages each of Rudio and Audio Amplification. Can be operated from light socket with battery eliminators, or with the usual battery equipment. Price, with console base, less accessories, \$115. The Rola pedestal speaker shown is \$32.50.



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JOHN S. DAGGETT, Manager and Program Announces
Phone MEt. 0700

"Kindness, Happiness and Joy"





WEEK COMMENCING SUNDAY, MARCH 20, 1927
MARCH 20 10:00 to 11:00 p. m.—Jinnistan Vale Orches-

SUNDAY, MARCH 20

10 a.m.—Sermon from the KHJ Studio by
Rev. C. E. B. Ward, superintendent of the League for the American Home, a visitor

in Los Angeles from New York.

10:30 a.m.—Morning service from First
Methodist Epispopal Church, Sibley Pease, organist.

7:00 to 8:00 p. m .- Evening services from the First Methodist Episcopal Church. 8:00 to 10:00 p.m.—News items. KHJ Stu-

dio program presenting Frederick Mac-Murray, viola; Louise Miller, pianist, and others.

MONDAY, MARCH 21 Silent all day.

TUESDAY, MARCH 22
2:30 p. m.—Bridge game.
6:30 p. m.—Children's hour with Queen Titania and her Sandman. Charles Leslie Hill. "Honey Boy." Clara Hannuford, 15-year-old singer, and Radio Fairles.
7:00 p. m.—H. M. Robertson, "Dogs."

8:00 to 10:00 p.m.—News items. Program to be announced later.

9:00 p.m.—Rev. John Springer will talk on "Congo."

10:00 to 11:00 p.m.-Los Angeles Railway Orchestra.

WEDNESDAY, MARCH 23

2:30 p.m.—Fred C. McNabb, "Garden Talk."
6:30 p.m.—Children's hour, presenting Dick Winslow, "Juvenile Reporter," Viola Essen, "B.B."; Vivian Masple, "Blue Bell of KHJ"; Patricia Eccleston, "Little Daffosen, B.B.; Vivian Marple, Blue Bell of KHJI"; Patricia Eccleston, "Little Daffo-dill"; Lois Jane Camphell, "Brown Eyes"; Clen Fitz, "Optimistic Mascot," and pu-

pils of Marshall Studiments. Alascot." and pupils of Marshall Studiments.
7:40 p.m.—Dr. Mars Baumgardt.
8:00 to 9:00 p.m.—News items. Program from Klij Studio.
9:00 p.m.—George B. Chase, "Library."
9:00 to 10:00 p.m.—Program presented by Selwyn Harris Studio.

tra.

### THURSDAY, MARCH 24

6:30 p. m.—Children's hour, including Joyce Coad, "Little Red Ridinghood"; June Coad, Cond, "Little Red Ridinghood"; June Hemmdon, contraito: Dickie Brandon, juvenile reade; Rosetta Lewin, "Curly Locks"; Jeanne De Bard, "Bonnie Jeanne": Nelita Bennett, "Ginger Bread Girl," and Kathryn Thompson, "Nature Talks" and saxophone solos.

7:40 p.m.—Dr. Philip M. Lovell. 8:00 to 10:00 p.m.—News items.

De Luxe, presenting Zoeliner Quartette, Louise Miller, planist; Leo H. Samiper. Russian baritone.

9:00 p.m.-Arthur Edwin Wake, assistant pastor of the Wilshire Presbyterian Church.

10:00 to 11:00 p.m.—Hour of dance music by Glenn Edmunds and his Varsity Four.

FRIDAY, MARCH 25

6:30 p. m.—Children's hour, presenting Roberta Bush, "Firefly": Collins Twins, Katherine and Ellen, 7-year-old singers; Henrietta Poland, "Little Forget-me-not"; Marguerite Bringham, "Nightingale"; and Marguerite Bringham, "Nighting Richard Headrick, "Little Minister," othes.

7:00 p.m.—Thomas F. Ford, "Book Reviews.

8:00 to 10:00 p.m.—News Items. Musical program featuring Grace Currey, hapist. 9:00 p.m.—Talk on International Relations.

SATURDAY, MARCH 26
6:30 p.m.—Children's hour, with Nona Clapp, "Sunahine Fairy"; Dolly Wright, "Dolly of Radioland"; Arthur Stevens, "King Arthur"; Marjorie G. Love, "June "King Arthur"; Marjorie G. Love.
Bug"; Marguerite and Elaine Joy, readers.
Program
News items. Program

8:00 to 10:0 p. m.—News items. Program presented by Feodor Kolin, composer, and assisting artists commemorating the Centennial of Beethoven's Death.

Program Published as Submitted by the Station.

### Tune In KMTR, March 21st, 9:00 to 10:00 P. M., for Radio Doings Prize Program



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DAILY EXCEPT SUNDAY-

6:45 to 6:00 a.m.—Exercises by Dr. P. M. Seizas, courtesy of Producers of Mission Orange Juice.

8:00 a.m.—Inspirational talk and morning prayer, 8:55 a.m.—Time signals from Washington, D. C.

9:00 a. m. Radio Shopping News.

10:00 a.m.—Town Crier of the Day's morning message. 10:30 a.m.—Kate Brew Vaughn Director Household Director Household Economics

Dept., Evening Express, except Friday and Saturday, 12 noon—Magnavox Radio Orchestra, courteay of Listenwalter & Cough, 12:30 p.m.—W. F. Alder Travelogue.

1:30 p.m.—The Book Worm.

2:00 p.m.—Radio Trades Association, musical program.

4:00 p. m.-Lost and Found Column.

4:55 p. m .- Market reports.

5:00 p.m.—Optimists Dally Messages, presenting the Optimist Male Quartells 5:30 p.m.—Orthophonic Victoria.

6:00 p.m.-Biltmore Hotel Orchestra, broadcast from the Biltmore Dining Room 6:30 p. m.—Dinner hour concert presenting the Yale Radio Bettery Orchestra. DAILY EXCEPT SUNDAY AND TUESDAY—

11:00 p. m.-Hotel Ambassador, Gue Arnheim's Cocoanut Grove Orchestra

WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20 Church of Hollywood, Rev. Stewart P. MacLennan. 2:00 to 4:00 p. m. City Park Board must-

cal program

4:00 p.m.—Roberts Golden State Band 5:15 p.m.—All Souls' Church. 6:30 p.m.—Hollywood Unitarian Church 7:00 p.m.—First Presbyterian Church of Hollywood Rev. Stewart P. MncLennan 8:00 p. m .- Circle Theatre Concert Orches

tre and organ recital.

MONDAY, MARCH 21
12:45 p.m.—C. P. R. a musical program
3:00 p.m.—First Presbyterian Church Hollywood.

7:00 p. m.-George J. Birkel Masic Co. presenting the Orthophonic Victrola.

7:30 p. m .- Playlet, courtesy Overell Fur-

niture Company.

6:00 p.m.—L. W. Stockwell Co. courtery program, presenting Calmon Luboviski. master violinist, and Claire Mellonino. concert planist.

из00 р. m.—В. F. Goodrich Rübber Co. of Akon. Ohlo, Goodrich Silvertown Card Orchestra.

10:00 p.m.—KNX feature program.
11:00 p.m.—Hotel Ambassadori Gus Armhelm's Cocoanul Grove Orchestra.

TUESDAY, MARCH 22
11:00 a.m.—Dr. R. H. Gerber, specialist.
Eye Strain and Nervous Discasses.

3:00 p. m.-Los Angeles Police Department musical program

4:00 p. m .- Radio Matinee with Louise Howatt. contralto.

7:00 p.m.—Wilshire Ionaco Company courtesy program presenting Charles Hamp.

7:30 p. m,-Fitzgerald Music So. presenting the Ampico Knabe Piano. 8:00 p. m.—Feature program.

9:00 p.m.—Feature program.
10:00 p.m.—Hotel Ambassador; Gus Armheim's Cocoanut Grove Orchestra.

WEDNESDAY, MARCH 23
12:45 p. m.—C. P. R.'s musical program.
3:00 p. m.—Paul Hugon.

3:30 pp m .- Musical program.

4100 p.m.-Edward Murphy in 55 minutes of What Have You."

7100 p.m .- George J. Birkel Music Co. cours tesy program.

7:30 to 10:00 p. m. Feature program.

11:00 p. m - Hotel Ambassador; Cocoanut Grove Orchestro.

THURSDAY, MARCH 24 11:00 a.m .- Nature talk. courtesy Marvel Ant Gelatine Co.

7:00 p. m.—Carthay Circle Theatre organ recital, courtesy Overell Furniture Co.

8:00 p. m.-National Home Equipment Co. courteey program.

9:00 to 10:00 p.m.-Tucket and Charleson.

9:00 to 10:00 p.m.—fucker and Charleson.
10:00 p.m.—feature program.
11:00 p.m.—Hotal Ambassador; Gus Arechelm's Cocoanut Grove Orchestra.
FRIDAY, MARCH '25
12:45 p.m.—Charles Weeks, talking on "In-

tensive Little Ferme."

3:00 p. m.-L. A. District Federation of

Women's Clubs musical program.
4:00 p. m.-Boy Scouts' musical program. 7:00 p. m Fitzgerald Music Co., present-

ing the Ampico Knabe Piano. 7:30 p. m .- Dearden's Furniture Company.

courtesy program: 8:00 p. m.—Davis Perfection Breed

courtesy program, presenting the Royal Order of Optimistic Do-Nuts

9:00 p.m .- Fada Radio Co., courtesy pro-EF-SES

10:00 p. m .- Main events from the American

Legion Stadium.

11:00 p. m.—Hotel Ambassador: Gue Arnheim's Coconnut Grove Orchestrau

SATURDAY, MARCH 26
12:45 p. m.-C. P. R. a muelcal program.
3:00 p. m.-Town Crief of the Day and his Pals.

7:00 p. m.-Stories of insect life by Harry W. McSpadden.

7:15 p. m -- Announcement of Sunday serve ices of the leading Los Angeles churches.

7:30 p. m. to 10:00 p. m.—Feature program.

10:00 p. m.—Hotel Ambassador; Gus Araheim's Cocoanut Grove Orchestra:

11:00 p. m .- KNX Frolle from the Main Stu-

dio Program Published as Submitted by the Station.

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DAILY EXCEPT SUNDAY-

12:30 to 1:30 p. m.—Classified Hour. 5:40 to 6:00 p. m.—Beauty Talk.

6:00 to 7:00 p.m .- Pontiac Six Dinner Hour.

10:00 to 11:00 p. m.—Musical program from Mayfair Hotel.
11:00 to 12:00 p. m.—Dance music from El Patio Ballroom.
MONDAY, TUESDAY AND WEDNESDAY—
5:00 to 5:40 p. m.—Children's Hour.

### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20

2:00 to 3:00 p.m.-Organ Recital on the world's mightiest organ, located in Roose-velt Memorial Park, Los Angeles-broad-

cast by 6XBR and rebroadcast by KFWB. 8:30 to 9:00 p.m.—Program by courtesy of the Southern California Music Company.

9:00 to 1:00 p. m.—Warner Bros.' Frolic, introducing Frances St. George. KFWB Jazzmania Girl; Kenneth Killum, popular songs: Charles Rumsay, tenor: Byrle Colby, ballads: Harry G. Keiper and his Movieland Orchestra, and others.

MONDAY, MARCH 21

8:00 to 9:00 p.m.—Jackie Lucas, blues songs: Fioneywell Twins in popular numbers: Owen Fallon's Californians.

9:00 to 10:00 p.m.—Geo. B. Gdokins, bari-Warner Bros.' European Novelty

Orchestra.
TUESDAY, MARCH 22
10:45 to 11:00 a.m.—Enid Garnett on "Feminine Fads and Fancies."

TOTAL D. M.—Dr. L. P. Clarke on

4:45 to 5:00 p.m.—Dr. L. P. Clarke on "Diet."

7:00 to 7:30 p.m.—Program by courtesy of the Southern California Music Company.

7:30 to 8:00 p. m .- Warner' Bros,' Orches-

8:00 to '9:00 p.m.—LeRoy Kuliberg and his Ukulele; Ann Grey, blues songs: Warner Bros.' Dance Orchestra.
9:00 to 10:00 p.m.—Jack Gerss, tenor; Warne Bros.' String Trio.
WEDNESDAY, MARCH 23
10:45 to 11:00 a.m.—Enid Carnet on "Feminine Fads and Fancies."
7:00 to 7:30 p.m.—Thirty minutes of Sunshine by Charles W. Hamp, presenting the longer.

the lonaco.

7:30 to 8:00 p. m -- Warner Bos.' Orchestra.

8:00 to 9:00 p.m.—Art Goodstein, popular songs; Camilla McDonald, blues songs; Glenn Edmunds and his Collegians.

9:00 to 10:00 p.m.—Franklyn Colson, dra-matic tenor: Warner Bros. String Trio.

THURSDAY, MARCH 24

10:45 to 11:00 a.m.-Enid Carnett on "Feminine Fads and Fancies."

7:00 to 7:30 p.m.—Pogram by courtesy of The Southern California Music Company. 7:30 to 8:00 p.m.—Warner Bros. Orches-

8:00 to 9:00 p.m.—George O'Hara and his Ukulele: Helen Waltenberg, popular songs; Warner Bros.' Orchestra.

9:00 to 10:00 p.m.—Alma Brown, soprano: Pennall Melody Trio.

FRIDAY, MARCH 25

10:45 to 11:00 a.m.—Enid Gurnett on "Fem-inine Fads and Fancies."

7:00 to 8:00 p.m.-Warner Bros.' Orchestra: Virginia King, blues songs; LeRoy Kullberg and his Ukulele.

8:00 to 9:00 p.m.—Esther White, chaster songs: Eddie Graham, popular songs; Warner Bros. Orchestra.

9:00 to t0:00 p.m.—Melody Makers' Hour; Studio Chatter at 9:10.

SATURDAY, MARCH 26
7:00 to 8:00 p.m.—Carl Dye and his Melody Makers; Harry Monahan, popular

8:00 to 9:00 p.m.—Program by courtesy of the MonaMotor Oil Company, introducing Frank Barry, tenor: MonaMotor Oil Com-pany String Orchestra.

9:00 to 10:00 p.m.—Ernest Durley, tenor; Ray Bailey's String Quartet.

Program Published as Submitted by the Station.

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SOO WATTS

### DAILY EXCEPT SUNDAY-

7:00 to 7:30 a. m.—Prof. Barclay L. Severn's Setting-Up Exercises, 9:00 to 10:00 a. m.—KMTR Buyer's Hour, featuring Hatch Graham.

2:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra.

2:30 to 1:30 p. m.—Who's Who and What's Happening.

1:30 to 2:30 p. m.—Radio Press Agont Hour.

2:30 to 3:30 p. m.—KMTR Tea Dance Program.

2:30 to 4:00 p. m.—Whispering Jack Don and His Gultar, courtesy Dyn-O-Mag Co.

4:00 to 4:16 p. m.—Vacation Days.

8:30 to 8:00 p. m.—White King Mole Quartet and Mona Content, planist, courtesy Los

Angeles Soap Co.

5:00 to 6:18 p. m.—Nightly Duings.
6:15 to 7:00 p. m.—Lrighton's Artade Cafeteria Orchestra, George Redman, director
7:00 to 7:30 p. m.—Fitzgerald Music Company, courtesy program.
10:00 to 11:00 p. m.—Miller's Cafe Lafayette Dance Orchestra, courtesy of Chapman for Cream Co.

### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20 5:30 to 5:15 p. mr. - White King Male Quartet—Courtesy Loe Angeles Soap Company. 8:15 to 8:30 p. m.—Nightly Doings. 6:30 to 8:00 p. m.—Miller's Cafe Lafeyette

Concert Orchestra-Courtesy of Chapman Ice Creem Company.

8:00 to 9:30 p.m.-Loren Powell's Little

Symphony, MARCH 81 MONDAY, MARCH 81 11:48 to 12:00 m.—Galf Talls by S. C. Connelly of L. A. Athletic Club, 12:30 to 1:30 p.m.—Who's Whe and What's

Happening in Pomona. 4:15 to 4:45 p.m.-J. T. Redding, repre-

senting Wilshire's Ionaco

7:30 to 8:00 p.m.—Ln Vine Investment Company—Courtesy Program.

8:00 to 9:00 p. m. Lureka Vacuum Cleanor Company-Courtery Program.

9:00 to 10:00 p.m .- Precision Electric Manufacturing Company Radio Doings Prize Program.

TUESDAY, MARCH 22
10:00 told:15 a.m.—Charles Hamp, representing the lone Company.
10:15 to 11:00 a.m.—Georgia O George—

"The Physiology and Psychology of Benty-

13:00 to 13:00 m.—Talk by Madame Alene. 12:30 to 1:30 p.m.—Who's Who and What's Happening in Whittier.

4:15 to 5:00 p.m -- La Roy Parry and His Elite Dence Orchestra.

7:30 to 8:00 p. m.—Courtesy Program
8:00 to 9:00 p. m.—Manwell House Coffee
Company Courtesy Program. featuring

Maxwell House Coffee Orchestra and Lenore Duncan, contralte.

9:00 to 10:00 p.m.—Hollywood Storage Company-Courtery Program-

WEDNESDAY, MARCH 23
10:00 to 10:30 s.m.—Dr. 3. J. Mathleson,
pastor of the Hollywod Christian Church.
12:30 to 1:30 p.m.—Who's Whe and What's

Happening to Analysim.
4:15 to 4:30 p.m.—Rev. C. E. B. Word-"Better Home Life,

4:30 to 5:30 p. m. Dr. Wesley M. Barrett - Perfect Eyesight Without Closes."

7:30 to 8:00 p. m. Mignon Trie. 8:00 to8:00 p. m. Salimway Stores Courtesy program

9:00 to 10:00 p.m .- Hollywood Storage Com-

pany—Courtesy Program
THURSDAY, MARCH 24
10:00 to 10:15 a.m.—Fifteen MiRutes of
Sunshine with Charles Hamp, director of Radio Activities for the Iona Company.

"Diet Question Bea "Diet Question Sen Georgia O. George-19:45 to 11:45 a.m.—Georgia O. George-"Pschology of Benuty."

11:48 to 12:00 m.—Gelf Yelk by S. E. Con-

nolly of the Los Angeles Athletic Club, 18:30 to 1:30 p. m.—Who's Who and What's Happening in Glendale.

4:18 to 4:45 p. m.—J. P. Redding, representing Wilshire's Tornaco."

7:30 to 10:00 p. m.—2 is hours of vaude

FRIDAY, MARCH 25
10:00 to 10:30 a.m.—Dr. J. T. Coulter—
"Dogs and Cate."

18:30 to 1:30 p. m.—Who's Who and What's Happening in Santa Ans.

:18 to 4:45 p. m. Dr. Lowell C. Freet of the Hallywood High School-"The Con-

7:30 to 8:00 p. m .- Thirty Minutes of Sunshine with Charles Hamps director of Redie Activities for the lone Company.

\$100 to \$100 p. m. Alin Club Ginger Company, presenting the famous Len Nash Alte Club Hawailin American Bend. 9:00 to 10:00 p. m.—Rudolph Furniture

Сошрепу.

SATURDAY, MARCH 26 10:00 to 10:15 a.m.—Cherles Hemp, representing the lone Company.

11:30 to 12:00 m.—Gerdee Whitnell of the

City Planning Commission.

12:30 to 1:30 p.m.—Who's Who and What's Happening in Catalina Island. 4:15 to 4:30 p. m .- Irene Hohson's Beauty

Talk.

4:30 to 5:00 p. m.—Radio Talk to Radio Fane by F. W. Van Why.
7:30 to 7:40 p. m.—Talk by representative of the Sheriff's Office of Los Angeles.
7:00 to 8:00 p. m.—KMTR Movie Club.
8:00 to 8:30 p. m.—Cass Long Mountain

Club.

\$130 to 9:00 p.m.-Luna Park Program. 9:00 to 10:00 p. m .- Program of the Loa Angeles Police Department.

Program Published as Submitted by the Statum

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DAILY EXCEPT SUNDAY-8:45 to 9:15 a.m.,—Devotional Hour. 2:00 to 3:00 p.m.,—Inspirational Hour.

WEEK COMMENCING SUNDAY, MARCH 26, 1927

DAILY EXCEPT FRIDAY AND SUNDAY-7:15 to 8:00 p. m .- Aunt Martha's Children's Hour.

SUNDAY, MARCH 20

10:48 a.m. to 12:30 p.m.—Hegular service of Church of the Open Door.

3:00 to 4:00 p.m.—Jewish Radio Hour. Bible exposition by Rev. David L. Cooper. 6:00 to 7:00 p.m.—Radio Vesper Service. 7:15 to 8:30 p.m.—Regular service of the Church of the Open Door. MONDAY, MARCH 21

8:00 to 9:00 p.m.—Bible exposition by Rev. C. B. Larrahes of Arizona. TUESDAY, MARCH 22

8:00 to 9:00 p.m.—Bible exposition by Rev. C. B. Larrahes. SUNDAY, MARCH 20

C. B. Larrabee.

WEDNESDAY, MARCH 23 8:00 to 8:00 p. m.—Bible exposition by Or John McNeill.

THURSDAY, MARCH 24
5:00 to 8:00 p. m.—Sible exposition by Rev.
C. B. Larrabee.

FRIDAY, MARCH 25 2:00 to 3:00 p.m. — Inspirational Hour. 6:15 to 7:00 p.m.—Aunt Martha's Children's Hour. Hour.

7:00 to 8:00 p. m.—Exposition of Interna-tional Sunday lesson

8:00 to 8:00 p. m.—Bible exposition by Dr. John McNeill.

Program Published as Submitted by the Station.

C. N. NICHOLS Announcer

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ESTHER FRICKE GREENE, Organist
GLADWYN N. NICHOLS, Musical Director & Announcer
P. S. LUCAS, Technician in Charge

"Four Square Gospel"

### DAILY EXCEPT SUNDAY AND MONDAY-

10:20 to 11:30 a. m .- Sunshine Hour. 11:30 a.m. to 12:30 p.m.—Noonday Musical. 6:30 to 7:30 p.m.—Angelus Hour.

DAILY EXCEPT SUNDAY, MONDAY, WEDNESDAY, SATURDAY-2:30 to 3:30 p.m.-Gray Studio Program.

### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20

10:30 a.m. to 12:30 p.m.—Sinday morning worship. Evangulist A. G. Garr. 2:30 to 4:30 p. m .- Afternoon Dispensational service by A. G. Garr.
6:30 to 8:00 p. m.—Musicale Hour. Angelus Temple Bend and choir.

8:00 to 9:30 p. m.-Revival Service by A. G. Garr.

10:00 to 11:00 p.m.—Organ Recital by Es-ther Fricke Greene.

TUESDAY, MARCH 22 3:30 to 4:30 p.m.—Vesper Hour. Recital by B. Earnest Ballard. Organ

6:30 to 7:30 p.m.—Angelus Hour. Program arranged by Rodericke H. Murrison. 7:30 to 9:30 p. m. - Evangelistic services by Student Evangelists.

WEDNESDAY, MARCH 28

2:30 to 5:30 p.m.—Divine Healing Service 6:30 to 7:30 p.m.—Annelus Hour. Program arranged by Rodericke H. Morrison.

7:30 to 8:30 p. m.—Regular mid-week prayer conducted by A. G. Garr.

Program Published as Submitted by the Station.

THURSDAY, MARCH 24

3:30 to 4:30 p. m .-- Vesper Hour. Organ re-cital by B. Earmest Ballard. 8:30 to 7:30 p.m.-Angelus Hour.

7:30 to 9:30 p. m. Regular Water Baptie mal Service. A. G. Garr.

9:18 to 10:00 p.m.—Gray Studio Program. 10:00 to 11:00 p.m.—Organ Recital by Ea-ther Fricke Greens.

### FRIDAY, MARCH 25

3:30 to 4:30 p.m.—Veeper Hour. Organ Recital by Eather Fricks Greens. Angelus Hour. Angelus Temple Hand. 7:30 to 9:30 p.m.—Crusader Rally, Sermon by A. G. Carr.

10:00 to 11:00 p. m .- Back Home Hour.

### SATURDAY, MARCH 26

3:30 to 4:30 p. m .- The Children's Happy Hour.

6:30 to 7:30 p.m. Angelus Hour. 7:30 to 0:30 p.m. Divine Healing Service conducted by A. G. Garr.



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DAILY EXCEPT SUNDAY—6:00 to 7:00 p.m.—Panatrope Dinner Hour.

MONDAY, TUESDAY, WEDNESDAY, THURSDAY—
12:00 to 1:00 p.m.—Hazel McCauley and the Office Boy
3:30 p.m.—Thursday. Try-outs (not brondcast)

### WEEK COMMENCING MONDAY, MARCH 21, 1927

MONDAY, MARCH 21 7:00 p.m.—L. E. Taft on Radio Technology.
7:30 p.m.—Hoot Cibson's Trio, Kathrine
Williamson and "Red" Wyatt.
8:00 p.m.—Myra Belle Vickers.

9:00 p.m.—Yellow Jackets, L. A. Reflway Quartet, Wendell Smith, and Virginia King, accompanied by Mahla King.

TUESDAY, MARCH 22
7:00 p. m.—Marion Boogar and Earl Lawrence, "The Novelty Duo"; Warren Peterson and Bud Overbeck.

8:00 p. m .- Neapolitan Four and C. Howard Paxton.

00 p.m.—Police and Fire joint program, Officer Robt. F. Tracy. 9:00 p. m.-

WEDNESDAY, MARCH 23

7:00 p. m.—Clint Stevenson's Trio. Ed Pose and Helen Boyd.

8:00 p.m.-Bob Buckner and his Sole Killers. Art Goodsteln and Lee Bolin.

9:00 p. m.—Yellow Jackets, Honeywell Twins, Virginia King, accompanied by Mable King, and Jack Goode.

THURSDAY, MARCH 24
7:00 p.m.—L. E. Taft on Radio Technology.
7:30 p.m.—Jack Martin's Trio, and Ruth Raynor.

8:00 p. m.-LeRoy Parry's Elite Orchestra, and Ned Miller.

9:00 p.m.-L. A. Railway Orchestra, the Harmony Twins, Helen Simpson and Es ther Ware.

FRIDAY, MARCH 25

12:00 noon-Greenwich Village Orchestra and Babette Barker, soloist,

7:00 p. m .- American Hawalian Trio, Hale Hooper and Margaret Kernon.

8:00 p. m .- Galanian's Orchestra, Dot Jur-

dan and Glenda Boston.

9:00 p. m.—Yellow Jackets, Pat Lee and Helen McColl.

SATURDAY, MARCH 26

12:00 noon-Paris Inn Cafe Orchestra. Bert Roverre, soloist.

7:00 p. m.—Lloyd Dick Powers. Wood's Orchestra and

8:00 p. m .- Califonia Melody Kings and Ruth Donigan.

9:00 p.m.—Dave Ward and his Yellow Jackets; Joie Lee, Bud Riley, Don Stev-ens and Helen Turnbull.

SUNDAY, MARCH 27

8:00 p. m .- Greenwich Village Orchestra and Babette Barker, soloist,

9:00 p. m.—Yellow Jackets; Virginia King, accompanied by Mable King: Al Ybarra and Joe Hawley.
Signing off nightly at 11 o'clock.

Program Published as Submitted by the Station.



GEORGE FRENGER Announcer

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PERCY C. PRYOR, Studio Office
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DAILY EXCEPT SUNDAY-12:00 to 12:15 p.m.—News Bulletin.
6:00 to 7:00 p.m.—Dinner-time News Report.

WEEK COMMENCING SUNDAY, MARCH 20, 1927

### SUNDAY, MARCH 20

10:30 a, m.—Family Altar Service by the United Church Brotherhoods.

11:00 a.m.—Services from the Pasadena Presbyterian Church.

6:00 to 7:00 p.m.—Star-News concert, with Adolf Tandler and the Ensemble.

### MONDAY, MARCH 21

8:00 to 9:15 p. m Star-News concert, with Adolf Tandler and the Ensemble.

TUESDAY, MARCH 22 8:00 to 9:15 p.m.—Star-News concert, with Adolf Tandler and the Ensemble.

THURSDAY, MARCH 24
8:00 to 9:15 p. m.—Star News concert, with
Adolf Tandler and the Ensemble.

FRIDAY, MARCH 25
8:00 to 9:15 p. m.—Star-News concert. with Adolf Tandler and the Ensemble.
SATURDAY, MARCH 26
8:00 to 9:15 p. m.—Star-News concert. with Adolf Tandler and the Ensemble.

Adolf Tandler and the Ensemble

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DAILY EXCEPT SUNDAY-

6:00 to 6:30 p. m .- Shoppings news, with Victor Electrola Review

WEEK COMMENCING SUNDAY, MARCH 20, 1927

JACK DUCKWORTH

SUNDAY, MARCH 20-11:00 a.m. to 12:15 p.m.-Centinella Baptist Church.

MONDAY, MARCH 21 6:30 to 7:00 p.m.—Martin Wallace Orches-

tra, request program. 7:00 to 8:00 p. m.-Lambert Sales Co. pro-

gram. 8:00 to 9:00 p. m .- City of Inglewood cour-

tesy program.

9:00 to 9:30 p. m. Lee. M. Sutton courtesy program; KMIC Trie: Louise White, ecpano; Nell Larson, piano; Don Minor. tenor.

9:30 to 10:00 p.m.—Studio program. TUESDAY, MARCH 22

6:30 to 6:45 p. m .- Health Chat, Care of the Body.

6:45 to 7:00 p.m.—Skinner Mig. Co. cour-

teey program.
7:00 to 7:30 p.m.—Studio program, with Helen McColl, blues: Ethyl Smith, uke: Carol Agnew, plane.
7:30 to 8:00 p.m.—Reliable Radio Sales &

Service Co. courtesy program. 8:00 to 10:00 p. m .-- Wes. Wondford and his Bachelor Four, request program.

WEDNESDAY, MARCH 23 6:30 to 7:30 p. m Martin Wallace Tire Co. courtesy program.

8:00 to 10:00 p.m.-L. A. Ry Sting Quartet.

THURSDAY, MARCH 24 8:30 to 7:00 p. m.—Gordon Carrett. classic planist.

7:00 to 7:30 p. m.-Malloy Clint courtesy program.

7:30 to 8:00 p. m.-Inglewood Furniture Co. courtesy program.

8:00 to 10:00 p.m.—Wes. Woodford and his Bachelor Four: Evic and Peggy, Narmony numbers: Fred Wesley, blues: Don Minor. tenor: Hill Henry, blues.

FRIDAY, MARCH 25

6:30 to 7:30 p. m.—Studie program. 7:30 to 8:00 p. m.—Skinner Mig. Co. cour-

tesy program. 8:00 to 10:00 p.m.—Studio program, with Shermoan Hunter, tener: Louise White, engrano: Lempke's Radio Boys and others.

10:00 to 12:00 midnight-American Legion Frolic.

SATURDAY, MARCH 26 6:30 to 7:00 p.m.—Gerdon Garrett. classic planist.

7:00 to 8:00 p m .- Martin Wallace Orchestra.

8:00 to 10:00 p. m .-- Bill Livingston and his Radio Boys: Evie and Poggy. harmony: Don Minor, tenor; Neva Negle, whiatler.



R. C. Hashai Announcer

### Los Angeles, Calif.—517 Meters

1000 WATTS-580 KILOCYCLES TRINITY METHODIST CHURCH BOB SHULER, Paster Phone BRoadway 1000 C. C. HOOPER, Manager M. J. HANKINS, Technician

WEEK COMMENCING SUNDAY, MARCH 20, 1927 SUNDAY, MARCH 20

10:00 a.m. to 12:30 p.m.—Regular services, Rev. Bob Shuler. 5:00 to 6:00 p.m.—Vesper services, Dr. Mc Cullock. 7:00 to 8:00 p.m.—Musical program.

8:00 to 9:00 p.m. Bob Shuler's Prelude Questions and Sermon.

9:00 to 10:00 p. m - Old Songa Hour.

TUESDAY, MARCH 22 10:00 to 10:30 a.m.—Bob Shuler's Family Altar Service.

7:00 to 7:30 p.m.—Dr. G. A. Fry in charge. 7:30 to 8:00 p.m.—Mrs. J. F. Bergherm's 5. 3. class in charge.

8 100 to 8:30 p.m.-Church Federation program.

8:30 to 9:00 p. m.-J. T. Rumble, Scotch baritone.

9:00 to 9:30 p. m .- Bob Shuler's Doctrinal Talk.

9:30 to 10:00 p.m. -- Cou Fitzgerald Music Company -- Courtesy program.

WEDNESDAY, MARCH 23 6:00 to 7:00 p. m .- Durothy Spencer's Children's Hour.

7:00 to 7:45 p. m.-O. D. Conrey's Bible Class.

7:48 to 8:30 p. m.—The Trinity Ensemble. 8:30 to 9:15 p. m.—Bob Shuler's Question

9:15 to 10:00 p.m.—The Shaloner Trio.

FRIDAY, MARCH 25

7:00 to 7:30 p, m.-Dr. Briegleb's Radio Bible Class.

7:30 to 8:00 p. m.-30 to 8:00 p. m .- The Spanish Americ Male Quartot and Instrumental Quartet. American

8:00 to 8:30 p. m.—Bob Shuler's Civic Talk 8:30 to 9:30 p. m.—The Reservelt School Clee Club of Glendale. Reprevelt School

9:30 to 10:06 p. m.—Courtesy program of the Fitzgerald Music Company,

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DAILY EXCEPT SUNDAY-5:00 to 7:00 p. m. Club Casa Del Mar organ recital. Remote control.

7:00 p. m.—Merchants Review.
10:00 to 11:00 p. m.—Club Casa Del Mar Orchestra. Remote control.
11:00 to 12:00 p. m.—La Munica Ball Room Orchestra.

DAILY EXCEPT MONDAY-

8:00 to 9:00 p.m.—Band Concert. 2:30 p.m.—Band Concert.

SUNDAY, MARCH 20 10:45 to 11:45 a.m. - Pilgrim

Church services. 6:15 to 7:00 p.m. Pilgrim Lutheran Church

gervices. 7:00 to 8:00 p. m.—Club Casa Del Mar, organ concert by Julius K. Johnson.
9:00 to 10:00 p. m.—Club Casa Del Mar.

Julius K. Johnson, organist, and Club Casa Del Mar Orchestra. 10:00 to 11:00 p.m.—La Monica Ballroom

Orchestra.

MONDAY, MARCH 21
2:00 to 2:30 p. m.—Shopping Tour conducted by Margaret Macdonald Shontz

4:00 to 4:45 p.m. — Smiling Circle with Brother Tom.

8:00 to 10:00 p. m.—Main studio program, featuring the Black and Tan Orchestrit, Al Flannigan, tenor.

TUESDAY, MARCH 22
1:30 to 2:30 p. m.—Ort Mace and his Rendezvous Baliroom Orchestra.

4:00 to 4:45 p.m. - Smiling Brother Tom. Circle with

9:00 to 10:00 p.m.—Main studio program, fenturing the California Dona Orchestra, Marjorie Bechtel, soprano, and Albert

Brond, tener, accompanied by Irma Reed.
WEDNESDAY, MARCH 23
2:00 to 2:30 p.m., Shapping Tour conducted by Margaret Macdonald Shontz.

WEEK COMMENCING SUNDAY, MARCH 20, 1927

MARCH 20 4:00 to 4:45 p.m. — Smiling Circle with Brother Tom.

9:30 to 9:30 p. m.—Club Case Del Mar.
9:30 to 10:00 p. m.—Broadcasting of the
Fights, from Ocean Park Arens, through
the courtesy of the Ocean Park Athletic

Club. THURSDAY, MARCH 24

4:00 to 4:45 p. m. - Smiling Circle with Brother Tom.

9:00 to 10:00 p.m.—Main studio program, featuring John David Beall and his assisting artists.

FRIDAY, MARCH 25
2:00 to 2:30 p.m.—Shopping Tour, conducted by Margaret Macdonald Shontz.
4:00 to 4:45 p.m.—Smiling Circle with Brother Tom.

9:00 to 10:00 p. m. Main studio program, featuring Los Augeles Railway Orchestra. SATURDAY, MARCH 26

4:00 to 4:45 p.m. - Smiling Circle with Brother Tom.

9:00 to 10:00 p.m.—Main studio program, featuring Virginia Depp and Betty Daud. novelty singers; Kathleen Williamson, Blues singer, accompanied by Eleanor Swall and fourteen strings of harmony, by Eddie Mille.

12:00 to 1:00 a. m .- La Monica Ballroom Orchestra.

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Tune In KMTR, March 21st, 9:00 to 10:00 P. M., for Radio Doings Prize Program

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9:00 to 11:00 a.m. Music and shopping news.
11:00 to 11:30 a.m. Mary Elizabeth Garden.
5:30 to 7:00 p.m. Music and shopping guide.

10:00 to 12:00 p.m.-Cush Branch and orchestra Venice ballroom.

### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20 Cush Branch and 6:00 p. m. Cuah Orchestra from Venice Ballroom.

BOR BEDDOME

Announcer

MONDAY, MARCH 21
8:00 to 9:00 p.m.—ial Denny and De Luxe
Orchestra: Bud Russel and Uke.
9:00 to 10:00 p.m.—Clyde Pearson, soprano: Fred Wesley, Al Conklin, plano;

Theo. Schoeffer, tenor.
12:00 mignight to 2:00 a. m.—Midnight Frolic from Tommy Jacob's Ship Cale.

TUESDAY, MARCH 22
8:0 to 9:00 p. m.—Analey Graham, tenor:
Lalish Fulton, concert planist; Dale Fulton, violinist.

9:00 to 10:00 p.m.-Roy Davis. Geraldine Barnett, coprano; Billy McCabe, tenor; Eugene Raymond, baritone. WEDNESDAY, MARCH 23

12:30 p. m .- Liona Club of Venice. 4:00 to 5:00 p. m.—Children's Hour, conducted by Ursula March Largey.

8:00 to 9:00 p.m.—Studio program.

9:00 to 10:0 p.m.—Lyman Weed, baritone:
Nina Frey, soprano; Harry Von Zell,
baritone; Geo. Thiroux.

THURSDAY, MARCH 24
7:30 to 8:30 p.m.—Banketball.
8:30 to 9:00 p.m.—Bob Davies,
haritone; Sally J. Shull, pianiat. Davies. Welch 9:00 to 10:00 p. m. Ensemble Conservatory

of Music. FRIDAY, MARCH 25

4:00 to 5:00 p.m.—Children's Hour. 5:00 to 8:00 p.m.—Marbelite Cor Corp.

America courtesy program. 9:00 to 10:00 p. m. L. A. Railway Ha-

watlan Cuartet and vocal soloists.
SATURDAY, MARCH 28

1:00 to 2:00 p. m.—Harry Judson, Addie
Carlson, Walter Lyon, Al Conklin and others.

Program Published as Submitted by the Stellen,

### Tune In KMTR, March 21st, 9:00 to 10:00 P. M., for Radio Doings Prize Program

Lawrence Mett Assouscer

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DAILY EXCEPT MONDAY-

12:30 to 1:30—Hotel St. Catherine Orchestra.
6:30 to 8:00—St. Catherine Orchestra.
DAILY EXCEPT MONDAY, THURSDAY AND SUNDAY— 6:00 to 6:30-Studio.

MONDAYS

Silent.

TUESDAYS

5:30 to 6:00 p.m.-Mise Hewitt's Golden Hour.

6:00 to 8:00 p.m.-Studio.

WEDNESDAYS

8:00 to 9:00 p. m.—Studio Program. 9:00 to 12:00 Midnight—Oversons.

**THURSDAYS** 

8:00 to 9:00 p. m .- Studio Program.

FRIDAYS

5:00 to 6:00 p. m.-Miss Hewitt's Golden Hour.

6:00 to 6:30 p.m.—Wrigley Chimes. SATURDAYS

3:00 to 4:30 p. m. Rehreadcast of KNX. 9:15 to 10:00 p. m. Studio.

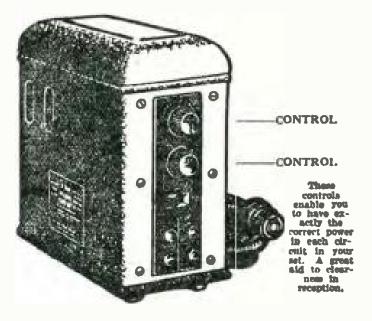
SUNDAYS 5:00 to 6:00 p. mi. - Miss Hewitt's Colden

Hour.

6:00 to 6:30 p.m.—Wrigley Chimes. 8:00 to 9:15 p.m.—Lobby Concert. Fictor Electrola used during all programs.

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DAILY EXCEPT SUNDAY—

10:18 to 10:30 a. m.— Devotion Period."

10:30 to 11:30 a. m.—Physiology of Beauty, Georgia O. George.

11:30 a.m. to 12:00 noon-Press-Telegram news. 12:00 noon--Lost and found announcements.

4:00 to 4:30 p. m.—Press-Telegram Late News.
4:30 to 6:00 p. m.—KFON Concert Orchestra.
6:00 to 6:15 p. m.—Request Program by Clarence and Doris.

DAILY EXCEPT MONDAY-2:30 to 4:00 p. m.—Municipal Bond Concert

6:15 to 7:00 p. m.—KFON Concert Orchestra.

DAILY EXCEPT SUNDAY AND MONDAY—

7:30 to 9:00 p. m.—Municipal Hand and studio programs.

9:30 to 10:15 a. m.—Pacific Caust Club organ, Herbert Nixon at the console.

WEEK COMMENCING SUNDAY, MARCH 20, 1927
1:00 to 1:30 p. m.—Birkel Music Co. pro pany program, featuring Clarence and Dogram. eto.

1:30 to 2:30 p. m.—Musical presented by Wrs. Control Mills. program

4:00 to 5:00 p m. Vapur Hour. 5:00 to 5:00 p.m. KFUN Concert Orches

tra.

6:00 to 6:18 p. m Request Period, Claronce and Doris. 7:00 to 7:46 p. m -Fountain Club Cale Or-

chestra.

7:48 to 9:00 p. m.—Services from First Church of Christ, Scientist.
9:00 to 12:00 p. m.—"Everybody's Night"—amateurs and professionals.

MONDAY, MARCH 21 12:00 to 12:30 p. m. Mar Day Beauty Solon, musical program.

12:30 to 1:00 p. m .- American Markets sponsoring mustcal program.

1:00 to 1:30 p. m. - Wilshire Ionaco Com-geny program. featuring Clarence and Dorla.

-San Podro Merchants 1:30 to 2:30 p. m.musical program.

7:00 to 8:00 p. m.—Thrifty Sandy program. sponsored by Citizens State Bank.

\$100 to \$118 p.m .- Lure of the Sky, by Dr.

B:18 to 5:30 p. m.—Physiology of Beauty, by Georgia O. George.

8:30 to 9:00 p. m.—"The Haymakers," freturing old-time dence music.

9:00 to 12:00 p. m.—"Kiwania Frolic."

TUESDAY, MARCH 22
12:00 to 12:30 p.m.—Kay & Burhank Company musical program.
1:00 to 1:30 p.m.—Kiwanis Club luncheon.
1:30 to 2:30 p.m.—Woman's Music Study Club.

7:00 to 7:30 p. m.—Novelty Program.
7:30 to 8:00 p. m.—"Chat for Booklovers,"
presented by Hewitt's Bookstors.

9:00 to 10:00 p.m.—Piggly Wiggly Girls. 10:00 to 11:00 p.m.—San Pedro Merchants musical program.

11:00 to 12:00 p. m .- Majestic Ballroom Orchesta.

WEDNESDAY, MARCH 23
12:00 to 12:50 p.m.—Mac Day Beauty Sa
lon musical program.

12:30 to 1:00 p. m.-American Markets sponcoring musical program.

1:00 to 1:30 p. m.—Rotary Club luncheon. 1:30 to 2:00 p. m.—Wilshire Ionaco Com-Club luncheon.

2:00 to 2:30 p. m .- Dept. of Numerology. 7:00 to 7:30 p. m.—Texas Cowhoys to old-time dance music.

9:00 to 10:00 p. m .- Pacific Coast Club Orchestra,

10:00 to 11:00 p. m .- San Pedro Merchanta mainteal program.

11:00 to 12:00 p. m .- Pacific Coast Club Orchestra.

THURSDAY, MARCH 24
12:00 to 12:30 p.m.—Kay & Burbank Company musical program.

2:00 to 2:30 p. m .- Health and Efficiency. Dr. Elmer S. Clark.

7:00 to 8:00 p. m.—Studio program. 9:00 to 10:00 p. m.—Shell Oil Co.'s Orchestra

10:00 to 11:00 p. m San Pedro Merchante musical program.

11:00 to 12:00 p. m .- Majestic Bellroom Orchestra.

FRIDAY, MARCH 25 12:00 to 12:30 p. m. Man Day Beauty Sa-lon musical pogram.

12:20 to 1:00 p. m .- American Markets sponsoring musical program.

lonaco Com-

pany, featuring Chrence and Dorie.

2:00 to 2:30 p.m.—Dept. of Numerology,
7:00 to 7:30 p.m.—Church of Christ, by
Rev. Earnest Beam.
7:30 to 7:45 p.m.—"A Seline Sizer Program."

gram.

7:45 to 8:00 p. m.—"Lucky Jim" Invest ment Chat, by Seaboard Bond & Mort-

Missman Redio Co. program.

10:00 to 11:00 p. m.—San Pedro Merchants

musical program. 11:00 p.m. to 1:00 a.m.—Elka Frolic, Lodge No. 855.

SATURDAY, MARCH 36
12:00 to 12:30 p.m.—Key & Burbank Company musical progrem.
1:30 to 2:30 p.m.—Fountain Club Cafe Or-

chestre.

7:00 to 8:00 p.m .- Pacific Coast Club Orchestra.

9:00 to 10:00 p. m.—The Minstrel Show. 10:00 to 11:00 p. m.—San Pedro Merchants

musical program. 11:00 to 12:00 p. m .- Pacific Coast Club Or-

chestra. Program Published as Submitted by the Station.

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### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20-TOM SEXTON 3:00 to 4:00 p. m.-Temple service of the Theosophical University. Announcer MONDAY, MARCH 21
7:00 to 8:00 p. m.—Studio hour.
8:00 to 9:00 p. m.—First Unitarian Church

8:00 to 9:00 p.m.—First Unitarian Church program, Howard B. Bard.
9:00 to 10:00 p.m.—Mixed musical program, TUESDAY, MARCH 22
7:00 to 8:00 p.m.—Studio hour.
8:00 to 9:00 p.m.—Union Title Company "Classic Hour" program.
9:00 to 10:00 p.m.—Mixed musical program. WEDNESDAY, MARCH 23
7:00 to 7:30 p.m.—Courtesy program by Wilshire's Ionaco Company.
7:30 to 8:30 p.m.—Concert program fur-

7:30 to 8:30 p. m.—Concert program furnished by the Theosophical University.
8:30 to 9:30 p. m.—C. C. C. Tatum, realtor, Bay Hills Orchestra.
9:30 to 10:00 p. m.—"Popular" Orthophonic

program.

THURSDAY, MARCH 24
7:00 to 8:00 p. m.—Police program, dance music and concert music.

P. 8:00 to 9:00 p.m.—John Mills. Point Lome Orchestra.

FRIDAY, MARCH 25

7:00 to 8:00 p.m.—Studio hour. 8:00 to 9:00 p.m.—P. M. Datry Concert Or-chestra. Instrumental Trio.

9:00 to 10:00 p.m.-Mixed musical program.

SATURDAY, MARCH 26

7:00 to 8:00 p. m. San Diego Senior High School program.

8:00 to 9:00 p.m. - Mme. de Beauviere.

"Franco-American hour.
9:00 to 10:00 p. m.—"Classic" hour Orthophonic recital.

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DAILY EXCEPT SUNDAY— 6:45, 7:15 and 7:45 a.m.—Daily health drill by Hugh Barrett Dobbs. 10:30 a.m.—"Ye Towne Crier."

10:45 a. m.—Cooking Hints. 12:00 noon—Time signals and Scripture reading.

1:00 noon—Time signals and Scripture reading.
1:00 to 2:00 p.m.—Rudy Seiger's Fairmont Hotel Orchestra.
3:30 to 5:30 p.m.—Palace Hotel Concert Orchestra.
5:30 to 6:15 p.m.—Children's Hour.
6:15 to 6:30 p.m.—"Ye Towne Crier,"
6:30 to 7:00 p.m.—States Restaurant Orchestra.
7:00 to 7:30 p.m.—Rudy Seiger's Fairmont Hotel Orchestra,
7:30 to 8:00 p.m.—Silent.

10:00 to 11:00 p.m .- Dance Program.

### WEEK COMMENCING SUNDAY, MARCH 20, 1927

### SUNDAY, MARCH 20

9:45 to 10:45 a.m.—Undenominational and non-sectarian church service. Uda Wal-

drop at the organ.

10:45 a.m.—"Ye Towne Cryer," giving the
United States weather forecast and general information.

2:40 to 4:15 p. m.—Concert of the San Francisco Symphony Orchestra, Alfred Hertz, director, to be boadcast from the New Curran Theatre by KPO, KFI and KGO.

6:00 to 6:30 p. m.—States Restaurant Or-chestra, Waldemar Lin, director. 6:30 p. m.—"Ye Towne Cryer," giving gen-eral information

6:35 to 8:35 p.m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director. 8:35 to 10:00 p.m.—Rudy Seiger's Fair. mont Hotel Concert Orchestra. 10:00 to 12:00 p.m.—John Wolohan and his Californians at the Trianon Ballroom.

### MONDAY, MARCH 21

8:00 to 8:10 p.m.—Chamber of Commerce talk on 'Industrial San Francisco,' hy Capen A. Fleming, director. Industrial Department.

8:10 to 8:25 p. m.—Book reviews by Harold A. Small of the Chronicle.

8:25 to 9:00 p.m.—Bridge Lesson No. 22.
9:00 to 10:00 p.m.—Studio program by
Neapolitan Quartette.
11:00 to 12:00 p.m.—KPO's Variety Hour.
presenting the KPO well known artists.

11:00 to 12:00 p.m.-

### TUESDAY, MARCH 22

8:00 to 9:00 p.m.—"Uda Waldrop Hour," featuing Uda Waldrop, KPO's official orranist, at the organ of the First Unitarian Church.

9:00 to 10:00 p.m .- Studio program.

### WEDNESDAY, MARCH 23

8:00 to 9:00 p.m.—Program by the At-water-Kent Artists, under the auspices of Ernest Ingold, Inc.

9:0 to 10:45 p. m.-KFl and KPO, Los Angeles Philharmonic Orchestra.

Reies Phinarmonic Orchestra.

10:45 to 12:00 p.m.—Billy Long's Cabirians.

THURSDAY, MARCH 24

8:00 to 9:00 p.m.—Studio program.

9:00 to 10:00 p.m.—Chickering Hour,

FRIDAY, MARCH 25

8:00 to 9:00 p.m.—Empress of Scotland

Orchestra.

9:00 to 10:00 p.m.—Walter Krausgrill's Orchestra

### SATURDAY, MARCH 26

6:30 to 7:30 p.m.—States Restaurant Or-chestra, Waldemar Lind, director.

8:00 to 9:00 p. m.—Simultaneous broadcast by KPO and KFI of a program presented by the San Francisco branch of the manu-facturers of White King and Mission Bell Soap.

9:00 to 10:45 p.m.—Los Angeles Philharmonic Orchestra, thorugh KPO and KFl. 10:45 p.m. to 1:00 a.m.—Waiter Krausgrill's Balconades Ballroom Orchestra.

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1:30 and 6:00 p. m .- Stock and weather reports. Baseball expres

6:00 to 6:55 p. m .- Bem's Little Symphony Orchestra

6:55 to 7:30 p. m .- Weather and stock reports.

#### Beward I. Milhelland Announcer

SUNDAY, MARCH 20

11:00 a.m. Chlvary Presbyterian Church Service. San Francisco: Rev. Ezra Allen Can Nuya, pastor. Earl Towner. organist. 2:40 p.m.—San Francisco Symphony Or-

chestra concert. direction of Alfred Hertz. 4:00 p. m .- Vesper service, Grace Cathedral,

San Francisco.

San Francisco.
6:30 to 7:30 p. m.—Concert by Bem's Little Symphony Orchestra.
7:30 p. m.—Weather Bureau report.
7:35 p. m.—Calvary Presbyterian Church service, San Francisco: Hev. Ezra Allen Van Nuys, pastor. Earl Towner, organist.
9:00 to 10:00 p. m.—Concert by Bem's Little Symphony Orchestra.

tle Symphony Orchestra.
4:00 to 5:00 p.m.—California Federation of
Women's Clubs.

5:30 to 6:00 p.m.—Aunt Betty (Ruth Thompson) stories: KGO Kiddies' Klub.

TUESDAY, MARCH 22
5:00 pl m.—"Mental Measurements" lectures
by Dr. Virgil E. Dickson.

8:00 to 9:00 p. m.—The Pilgrims. Eveready program by National Cabon Company.
9:00 p. m.—Joseph Henry Jackson: "Chats

About New Broks."
9:20 p.m.—Surprise broadcast.
WEDNESDAY, MARCH 23
5:30 p.m.—"The Caliph."
8:20 p.m.—An interview with the Agricultural Economist.

8:30 p.m.—W. O. W. Male Trio.

8:40 p.m.—Address, "Plant Dietetics." T. 9:15 p.m. to 1:00 M. Plerce, Chief Inspector, Division of Gunzendorfer's I Program Published as Submitted by the Station.

WEEK COMMENCING SUNDAY, MARCH 20, 1927
MARCH 20 Chemistry, State Department of Agriculture.

9:00 p.m —University of California Charter Day banquet program, Hotel Oakland, Oakland, California.

THURSDAY, MARCH 24 5:00 to 6:00 p.m.—George W. Ludlow.

"Friend to Boys."
8:00 p.m.—Cannert by KGO Little Symphony Orchestra, Carl Rhodehamel conducting.

9:00 p.m. to 12:00 midnight-John Philpott's Midshipmen.

FRIDAY, MARCH 25 11:10 a.m.-Prudence Penny, Homemaking talk.

5:30 p. m.—Day-Ray-O, children storyteller from Land-O-Health.

8:00 p. m.-Concert by Michel Penha, 'cello soloist of the San Francisco Symphony Orchestra; and ted by Emily Lancel, concert soprano, and Margo Hughes, planist

and accompaniat.
SATURDAY, MARCH 26
8:00 p. m.—"Weekly Sport Review" by Al Santoro.

8:15 to 9:15 p.m.—From Hotel Learnington, Oakland, Memorial concert, marking the 100th anniversary of Beethoven's death, given by the Sunset Club, fifty mixed voices. Walter Horace Bunday, director. assisted by Jeannette Cinter, violinist, and a atring ensemble.

9:15 p.m. to 1:00 a. m.-Dance music. Wilt Gunzendorfer's Hotel Whitcomb Band.

Tune In KMTR, March 21st, 9:00 to 10:00 P. M., for Radio Doings Prize Program

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10:00 to 11:00 a.m.—Sherman Clay & Co. concert
11:00 a.m. to 12:00 noon—Household Hints.
DAILY EXCEPT SUNDAY—

18:00 to 2:00 p. m.—Eddie Harkness' Concert Orchestra.
4:00 to 5:30 p. m.—Mark Hopkins Orchestra.
8:30 to 6:30 p. m.—"Mac" and his Gang. 6:30 p. m .- Stage and Sageen.

#### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20
5:00 to 6:00 p.m.—"Twilight Recital," with
Darnthy Pasmors, 'cellist: Florence MeEachien, soprano; Frank Moss, pianist,

"MAC"

6:30 p. m.—Stage and Screen.
6:30 to 8:30 p. m.—Mark Hopkins Concert
Orchestra, Vinton La Fererra, conductor.

MONDAY, MARCH 21 6:30 to 7:00 p.m.—Yale Radio Battery Trio

6:30 to 7:00 p.m.—KFRC Hawaiiana.
7:00 to 7:30 p.m.—KFRC Hawaiiana.
8:00 to 9:00 p.m.—Blue Monday Jambouree, with Mac and his Haywire Orchestra.
A. J. Kane's detective story, and others.
10:00 p.m.—Goodrich Silvertown

9:00 to 10:00 p.m.—Goodrich Silvertown Orchestra, Reg. Code directing.
10:00 to 12:00 p.m.—Eddie Harkness' Mark Hopkins Dance Orchestra, Ronald Johnson, tenor, and Mariorie Primley, pianist. during intermissions.

TUESDAY, MARCH 22 6:30 to 7:00 p. m.—Yale Radio Battery Trio

7:00 to 7:30 p.m.—Rustell Correction Co. 8:00 to 8:30 p.m.—Weekly meeting KFRC Radio Movie Club.
8:30 to 9:30 p.m.—Washington's Birthday

special program.

9:30 to 12:00 p.m.-Eddie Harkness' Mark Hopkins Orchestra: William Hart, tepor. WEDNESDAY, MARCH 28

11:30 to 7:00 p. m.—Yale Radio Battery Trio dinner concert.

7:00 to 7:30 p.m.-"Puas" Donahoo's Orchestro.

8:00 to 9:00 p.m.—KFRC Little Symphony Orchestra: Grace Le Page, soprano soloist,

8:00 to 9:00 p.m.—Masical Educational Talk by John C. Vogel of Educational Dept. of Sharman, Clay & Go.

9:30 to 10:00 p. m .- Studio program-10:00 to 12:00 p.m.—Eddle Harkness' Mark Hopkins Dance Orchestra. Juliette Dunn and Glenhall Taylor during intermissions. THURSDAY, MARCH 24

6:30 to 7:00 p. m -- Yale Radio Battery Trio dinner concert.

7:00 to 7:30 p. m.-Western Motors courteby program.

8:00 to 9:00 p.m.—Mona Motor program.
with Mona Melody Maids: Mae Thompson, apprano, and others.

5:56 to 10:00 p.m.—Organ recital, with Theodore Strong at the console of the Acollian pipe organ.

10:00 to 12:00 p.m.—Eddie Harkness' Mark Hopkins Dance Orchestra; Ronald John-ano, tenor. and Marlorie Primley, pianist. FRIDAY, MARCH 25

6:30 to 7:00 p. m .- Yale Radio Battery Trio

dinner program.

7:00 to 7:30 p. m.—Studio program.

8:00 to 10:00 p. m.—Gilfillan Bros., manufacturers of Gilfillan Neutrodynes, present KFRC Little Symphony Orchestra: Grace Le Page, soprano Georges Simondet, ten-or, and George Ainsa, beseo.

10:00 to 12:00 p. m.—Eddie Harkness' Mark Hopkins Dance Orchestra.

#### SATURDAY, MARCH 26

5:30 to 7:00 p.m .-- Yale Radio Battery Trio dinner program.

7:00 to 7:30 p.m.—Studio program.
8:00 p.m. to 1:00 a.m.—Eddie Harkness'
Mark Hopkina Dance Orchestra. 8:00 to
0:00 p.m., intermissions by Joe Benson,
pianist; 9:00 to 10:00 p.m., intermissions

by Juliette Dunn, soprano: 10:00 to 12:00 p. m., intermissions by Lou Emmel, barttone.

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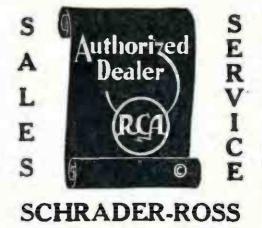
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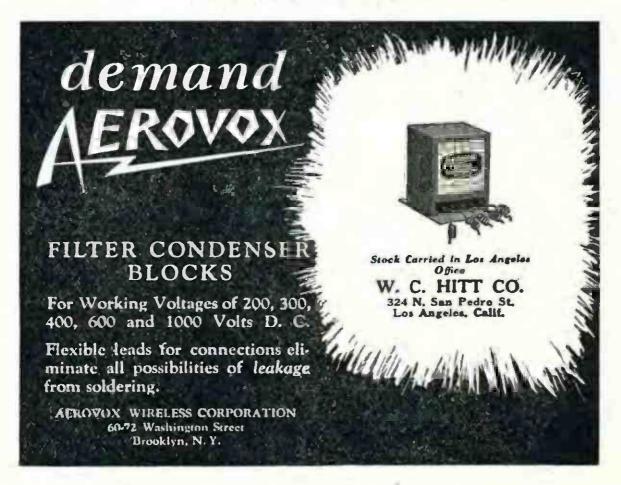


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10:00 to 11:00 p.m.—Clift Hotel Dance Orchestra.

MONDAY, WEDNESDAY, FRIDAY— 8:00 to 10:00 p. m.—Studio program

#### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20

11:00 a. m .- Services from Central Methodist

Episcopal Church. 12:30 p. m.—Services from Old St. Mary's Church, conducted by the Paulist Fathers. 7:30 p.m .- Services from the Central Methodist Episcopal Church.

MONDAY, MARCH 21

7:00 to 7:15 p.m.—Mr. Pep's "Pep Meet-ing" for Salespeople.

15 to 7:30 p. m -Sallie Heilbronner's Clift Hotel Concert Trie.

\$:00 to 10:00 p.m.-KYA Popular Night in the Studio.

TUESDAY, MARCH 22
9:30 to 10:00 a.m.—KYA Shopping Service conducted by Elsle Connitt.

10:30 to 10:45 a. m. Diet and Health Talk by Dr. Buren L. Corley

8:00 to 10:00 p. m .- Studio program.

WEDNESDAY, MARCH 23 8:00 to 9:00 p.m.—Lenten Services broadenst from Old St. Mary's Church.

9:00 to 10:00 p.m.—Program by members of San Francisco Opera Company.

THURSDAY, MARCH 24

7:00 to 7:15 p.m.—Mr. Pep's "Pep Meeting for Salespeople.

7:15 to 7:30 p.m .- Sallie Heilbronner's Clift Hotel Concert Tries

8:00 to 9:00 p.m.—Regular Weekly Meet ing of the "26th Squad."
9:00 to 10:00 p.m.—Studio program.

FRIDAY, MARCH 25

9:30 to 10:30 a. m.—KYA Shopping Service conducted by Elinie Countit.

10:30 to 10:45 a. m.—Diet and Health Talk by Dr. Buren L. Carley.

8:00 to 9:00 p. m.—Boethoven Memorial Concert given by the Sunset Club, Onkland.

9:00 to 10:00 p. m.—Studio program with Benny Lipaton, lyric tenor; Bill Poole, pianist, and Lina Seosulich, soprano.

SATURDAY, MARCH 26
4:00 to 5:30 p.m.—Herb Meyerinck's Clift
Hotel Dance Orchantre.

6:00 to midnight-Herb Meyerinck's Hotel Dance Orchestra, with intermisaion solos offered by KYA artists.

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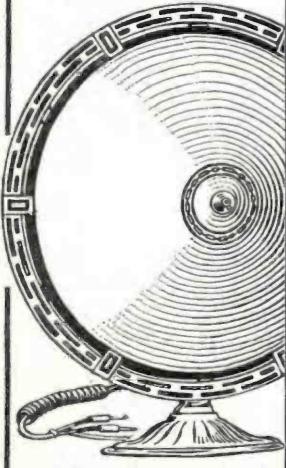
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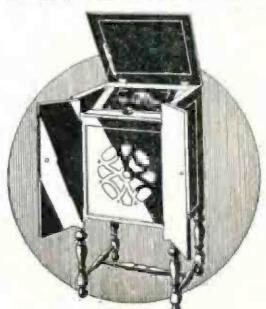
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7:00 to 8:00 p.m.—Sports, Police and Weather Reports.

#### WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20
1:00 to 2:00 p.m.—Wm. Bennett Recital.
7:50 to 9:00 p.m.—Christian Science Church service.

MONDAY, MARCH 21
8:00 to 8:20 p. m.—Recital by Miss Fox.
8:20 to 8:40 p. m.—Instrumental recital by

8:20 to 8:40 p. m.—Instrumental recital by Cowell Dien (piano and banju).
8:40 to 9:00 p. m.—Aileen Coombs, contralto: Lucille Burton, pianist.
9:00 to 11:00 p. m.—Paul Kelli's Orchestra playing at the ll Trowntore Restaurant.
TUESDAY, MARCH 22
8:00 to 8:40 p. m.—Novelty program.
8:30 p. m.—Jos. Detwiler and Glena Kennedy.

9:00 to 10:00 p. m .- Who's Who and Why Club.

WEDNESDAY, MARCH 23 8:00 to 8:20 p.m.—Recital by Stanley Painter, baritone, and Clem Kennedy, piantat. 8:20 to 8:30 p. m .- Becker Storage program. 10:00 to 12:00 midnight-Paul Kelli's

vatore Orchestra playing at Il Trovatore Restaurant.

THURSDAY, MARCH 24
8:00 to 8:30 p.m.—Recital by Henry Ha-man, tenor, accompanied by Eather Haman.

8:30 to 9:00 p. m .- Instrumental recital by James Dillon, saxophone, and Alice Wise, banjo, accompanied by Clem Kennedy, pianist.

9:00 to 10:00 p.m .- Maxwell House Coffee Orchestra.

10:00 to 12:00 p.m .- Paul Kelli'a Trovatore Orchestra playing at Il Trovatore Restaurant.

FRIDAY, MARCH 25 8:00 to 8:30 p. m.—Gaylord Wilshire Ionaco Lecture.

8:30 to 9:00 p. m.—Panatrope Concert.
SATURDAY, MARCH 26
9:00 to 12:00 p. m.—Paul Kelli's Il Trovatore Orchestra playing at the Il Trovatore Restaurant.



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7:00 to 7:30 p. m .- News broadcast.

WEEK COMMENCING SUNDAY, MARCH 20, 1927

SUNDAY, MARCH 20 10:30 a.m.—Martha Lee. 8:00 to 9:00 p.m.—Special program. 9:00 to 10:30 p.m.—Weekly meet Lake Merritt Ducks. Weekly meeting of WEDNESDAY, MARCH 23

10:30 a.m.-Martha Lee 6:30 to 7:00 p. m.-Athena Athletic Club dinner concert.

8:00 to 9:00 p.m .- Educational program. 9:00 to 10:00 p. m .- Special program.

FRIDAY, MARCH 25

10:30 a. m .-- Martha Lee. 8:00 to 9:45 p. m .- Wesetra Auto Supply program.

9:45 to 10:30 p. m.—Athens Athletic Club Club Orchestra.

Program Published as Submitted by the Station,

## We Can Make Any RCA Second Harmonic Super-Heterodyne

include in its tuning range the stations between 200 and 220 meters. Not an attachment, but a fundamentally sound improvement in the circuit.

We can install the Electro-Magnetic Reproducing system in any phonograph and guarantee as faithful reproduction as that given by any machine offered to the public.

Makers of the Projessional Model Super-Heterodyne

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LOS ANGELES, CAL.

V. M. BITZ



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# Nathaniel Baldwin CONSOLE GRAND REPRODUCER

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The Most **Popular** Model

This reproducer, employing the new scientific long air column principle, for true reproduction of the full tone range, is the latest development of the combined laboratory efforts of the Nathaniel Baldwin Co. of Salt Lake City and Newcomb-Hawley Co. of Chicago.

It is said by musical critics to be the best they have ever heard.

Baldwin Dealers will find their prestige increased still further by the addition of this wonderful speaker to their present Baldwin stock.

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LATTIBLES, J. JENNERS

## Seattle, Washington—454.3 Meters

1000 WATTS—860 KILOCYCLES
Owned and Operated by Rhodes Department Store
Arcade Square, Seattle, Washington
P. B. GALE, Station Manager
ROST, FIERCE, Station Engineer
ARTHUR W. LINDSAY, Program Director and Announcer MAX WELLS, Asst. Announcer

DAILY EXCEPT SUNDAY-

12:00 to 12:15 p.m.—Local Produce News. 12:15 to 12:30—Farm News.

2:00 to 2:30 p.m.-Homemakers' and Shoppers' Bureau

WEEK COMMENCING MONDAY, MARCH 21, 1927

MONDAY, MARCH 21
6:00 to 7:00 p.m.—Radio Studies Trio.
7:00 to 7:30 p.m.—Harold Weeks in Popu

lar Song Program. 7:30 to 8:00 p. m .- Cruise of the Sound Fer-

Ty Line Buccaneers.

8:00 to 8:30 p. m.—Industrial news by Man.

8:30 to 9:00 p. m.—KFOA Radio Movie Club. 9:30 to 11:00 p.m. Bunnie Brae Dance Or chestra, remote control

TUESDAY, MHARCH 22
12:30 to 1:30 p.m. Kiwania Club Luncheon program from the Olympic Hotel.

7:30 to 8:00 p. m.—Pitchlord Sisters. 8:00 to 8:30 p. m.—KFOA Radio Bridge Game

8:30 to 9:30 p. m .- Cheasty's Inc. present. ing Cheasty's Male Quartet.

WEDNESDAY, MARCH 23

12:30 to 1:30 p.m.—Rotary Club Luncheon program from the Olympic Hotal

7:00 to 8:00 p. m .- Hugh Baird's Ford O Crat Entertainers.

9:00 to 10:00 p.m.—Maxwell House Coffee Orchestra and soloists presented by Cheek-Nesi Coffee Co. from KGW, Portland.

THURSDAY, MARCH 24 12:30 to 1:30 p.m.—Shrine Club Luncheon program from the Chamber of Commerce

6:30 to 7:30 p. m.-E. Butterworth & Sons Orchestra.

7:30 to 8:00 p. m .- Sunde & d'Evers, Tent makers.

8:00 to 8:30 p. m .- Doc Prociss "Cross-Eyed Family.

8:30 to 9:30 p. m.-Cheasty's Inc. Trio De Luxe.

10:30 to 12:00 midnight Bonnie Bras Dance Orchestra.

FRIDAY, MARCH 25 12:30 to 1:30 p. m. -- Members Council Lunch eon program from Chamber of Commerce Bldm.

6:48 to 7:00 p.m.-Automabile Club of Washington.

7:00 to 8:00 p. m.—Sherman Clay & Com-

peny studio program. 8:00 to 9:00 p.m.—The Mission Bell Concert Orchestra presented by the Los Angeles Soap Co from KGW, Portland,

9:00 to 10:30 p. m .- Burke & Farrar's Kirkland Serenaders.

10:30 to 12:00 p. m.—Weakly Fruit of the "Keep Growing Wiser Order of Hont Owls," broadcast from KCW, Portland. Owls," SATURDAY, MARCH 26 7:00 to 7:30 p.m.—Children's pr

program on the Big Blue Mona Motor Bus to KGW and KHQ.

8:30 to 9:30 p. m .- Cheasty's Inc. Dance Orchestra

SUNDAY, MARCH 27
2:00 to 3:00 p.m.—"Ree Flying Cloud Concept Orchestra" presented by the Lamping Motor Co.

Program Published as Submitted by the Station.

Tune In KMTR, March 21st, 9:00 to 10:00 P. M., for Radio Doings Prize Program

## Distance Selectivity

"Childs DX Filter" Achieves Both

A Combination of an Extremely Powerful Amplifier and a Perfect Wave Filter

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STEPHEN I. GAYLORD Announces

## Portland, Oregon—491.5 Meters

1000 WATTS-610 KILOCYCLES THE MORNING OREGONIAN "Keep Growing Wicer"

#### DAILY EXCEPT SUNDAY-

7:18 a.m.—Setting up exercise.
9:48 to 10:00 a.m.—Women's bealth exercises.
10:00 to 11:30 a.m.—Town Crier, weather reports, news items.
12:30 to 1:30 p.m.—Noon concert.

6:00 to 7:00 p. m.—Dinner Concert.
7:30 to 7:45 p. m.—Wenther and market reports

#### WEEK COMMENCING SUNDAY, MARCH 20, 1927

#### SUNDAY, MARCH 20

10:58 a. m. to 12:30 p. m.—Morning service from the First Presbyterian Church.
4:00 to 6:00 p. m.—KGW Salam Orchestra.
7:30 to 9:00 p. m.—Evening services from the Himson Memorial Baptist Church.

9:00 to 10:00 p.m.—Concert by the Chev-rolet Little Symphony Orchestra.

#### MONDAY, MARCH 21

7:00 to 7:20 p.m.—Children's program. 8:00 to 10:00 p.m.—Vaudeville entertainment.

10:00 to 12:00 p.m .- Dance music by McElroy's Orchestra.

#### TUESDAY, MARCH 23

7:00 to 7:15 p. m.—Utility service.
7:30 to 8:00 p. m.—Albers' Poultry School.
8:00 to 8:00 p. m.—Concert, courtesy 7th

U. S. Infantry Band

9:00 to 10:00 p. m.—Concert, by Maxwell-House-Coffee Orchestra, simultaneously

elmultaneously with KFOA and KHO.

#### THURSDAY, MARCH 24

7:48 to 8:00 p. m.—Lecture, given under the suspices of the Catholic Truth Society of Oregon.

5:00 to 10:00 p. m .- Vaudeville entertainment.

#### FRIDAY, MARCH 25

2:00 to 3:00 p.m.—Women's matines.
7:00 to 7:30 p.m.—Children's program.
7:30 to 8:00 p.m.—Poultry talk.
8:00 to 9:00 p.m.—Concert by the Mission Bell Orchestra, from KGW through KFOA and KHQ.

9:00 to 10:30 p. m.-Dance music by Cole McElenw's Orchestra.

10:30 to 12:00 p. m.—Weakly fruit of the Keep Growing Wleer Order of Hoot Owle broadcast with KMO, KFOA, KHQ.

#### SATURDAY, MARCH 26

9:00 to 10:00 p. m .- Concert, Calumet instrumental Quartet.

10:00 to 12:00 p.m. Dance music, featur-ing Hermon Kenin and his orchestra.

Program Published as Submitted by the Station.

## KFX

## Portland, Oregon—447 Meters

4000 WATTS

THE WESTERN BROADCASTING COMPANY, PORTLAND

#### WEEK COMMENCING SUNDAY, MARCH 20, 1927

#### DAILY EXCEPT SUNDAY

5:30 to 5:00 p. m.-Radio code practice and daily radio chat by Clarence Clark, technical director of KEX.

6:00 to 8:30 p. m .- Children's hour by direct wire from Wremers Chateau.

6:30 to 8:00 p. m .- Congress Hotel dinner music: Jimmie Davis and his Pompeion Orchestra

8:00 to 9:00 p. m -- Studio program.

9:00 p. m.-Western Union time signals.

TUESDAY, THURSDAY, SATURDAY

9:00 to 10:30 p.m.—Studio program. 10:30 to 12:00 p.m.—Dance Music, direct wire from Kremer's Chateau.

#### SUNDAY ONLY

3:00 to 5:00 p.m.—Concert orchestra.
5:00 to 6:00 p.m.—Church nervices.
6:00 to 8:00 p.m.—Congress Hotel dinner mueic.

8:00 to 9:00 p. m.—Studio program, 9:00 p. m.—Time signals, Western Union. 9:00 to 10:30 p. m.—Studio program. 10:20 to 12:00 p. m.—KEX Frolic.

Pengram Published as Submitted by the Station

### RADIOLA 20 OWNERS, ATTENTION!

You can make a simple change in your receiver so that nearby local stations will interfers. Double your volume on distance. Anyone can make this change in a not interfere No soldering or rewiring. It is not an attachment. few minutes.

Results Unconditionally Guaranteed Instruction and Material Sent Prepaid for \$1.50

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FREEMAN B. TALBOT Announcer

## Denver, Colorado—322.4 Meters

930 KILOCYCLES-5000 WATTS GENERAL ELECTRIC COMPANY
Pacific Standard Time

"Rocky Mountain Broadcasting Station"

DAILY EXCEPT SATURDAY AND SUNDAY—
10:45 a. m.—Weather, Stock and Produce Reports
5:00 p. m.—Stock and Market Reports. 5:30 p. m .- Musical Program.

DAILY EXCEPT SUNDAY-11:15 a. m. - Organ recital.

#### WEEK COMMENCING SUNDAY, MARCH 20, 1927

#### SUNDAY, MARCH 20

10:00 a. m.—Service of First Congregational Church, Denver. Sermon, "If God Is Good Why Is There Evil in the World?" Rev. Robert Hopkins, pastor. Music presented by Mrs. Bernice W. Doughty, soprano and director. director.

4:30 p.m.—Organ recital from First Congregational Church. Rayce H. Mintener. organist.

5:30 p. m.-Dinner concert, Brown Palace Orchestra-

6:45 p. m.—Service from First Congrega-tional Church. Denver. Sermon, "The Hungar of the Common Heart," Rev. Robert Hopkins, pastor.

#### MONDAY, MORCH 21

6:30 p. m .- Children's hout, Denver Public Schools.

7:00 p. m.-Instrumental program by Scheu-

erman's Colorado Orchestra.

7:15 p. m.—Studio program, "A Nautical Knot" a comis coners, presented by the Knot," a comic opera, presented by the Mountain States Telephone and Telegraph Company.

#### TUESDAY, MARCH 22

2:15 p.m.—Talk, "Art in Every Day Life." given by Ella R. Milligan.
2:30 p.m.—Housewives matines.
3:30 p.m.—Question Boz.

3:46 p. m. Fashion review.
6:30 p. m. Farm Question Box.
8:00 p. m. Radio instruction in suction bridge, conducted by studio players.

WEDNESDAY, MARCH 23

6:30 p. m.—Wynken, Blynken and Nod time, 7:00 p. m.—Instrumental program by Scheuerman'e Colorado Orchestra.

7:15 p. m. Studio program, presented by the University of Denver.

THURSDAY, MARCH 24 2:15 p.m.—Talk. "Architecture." given by Elle R. Milligan.

2:30 p. m. Housewives' matinee.

3:30 p. m.—Culinary hints.
3:45 p. m.—Feshion review.
4:00 p. m.—Stocke, merkets, live stock, produce and news bulletins. Silent night.

FRIDAY, MARCH 25

12:00 noon—Organ recital, Aladdin Theater.
Denver: Viola K. Lee, organist.
2:15 p. m.—Talk. "Use of Art in Churches,"
given by Elle R. Milligam.
2:30 p. m.—Housewives matinee,
3:30 p. m.—Question Boz.

3:45 p.m.—Fashion review, 6:00 p.m.—"Aggle Kickoffs." 6:30 p.m.—Preview of International Sunday

School lesson. 7:00 p. m.-Instrumental program, KOA Or-

chestra.

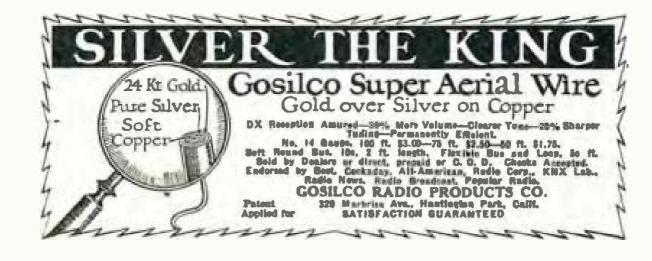
7:15 p.m.—Orchestra program, presented by the Colorado Underwriters' Associa-tion.

8:00 p. m. KOA Minstrel show, by KOA Minstrel players, Freeman H. Talbot, director.

SATURDAY, MARCH 26

9:15 p. m .- Dance program, Scheuerman's Colorado Orchestra.

Program Published as Submitted by the Station.



## Photographed at Last

All of us who have been listening in for any length of time are familiar with the voice of "Hastings," but very few have ever met him. During the time he was announcing for the Evening



"HASTINGS"

Herald we had many requests to pubish his picture but he always refused. We are now glad to let all see what the Greek God looks like. Incidentally, Hastings is at present disengaged, and would like to associate with a radio station as announcer or manager. He can be reached by addressing him in care of Radio Doings.

#### SOME OPINIONS

M. C. Rypinski, National Electrical Manufacturers' Association: "Enactment of a law for guiding radio broadcasting is the best news which could come to the industry at this time."

Orrin E. Dunlap, Jr., writer and former wireless operator: "The radio com-

## Ungar & Watson Now Distribute Preston's "DX" Ground

C. H. Preston, of Chatsworth, Calif., inventor of the "DX" Ground that has caused such a furore among radio enthusiasts throughout the Pacific Coast region and other parts of the country reached by Radio Doings, in which accounts of it were published, has signed a long-term contract with Ungar & Watson, Inc., 1366 South Figueroa Street, under the terms of which he will manufacture the ground and they will handle the distribution for the entire country.

Patent applications have been filed to protect the formula used in the manufacture of the "DX" Radio Ground and the new appliance is now being manufactured in quantities at a factory recently equipped for that purpose.

Every place the "DX" Radio Ground has been demonstrated it has met with the enthusiastic endorsement of radio owners, according to Preston and officials of Ungar & Watson, Inc. Hundreds of letters have been written to Preston and to K. G. Ormiston, Technical Editor of Radio Doings, asking for directions as to how the "DX" Radio Ground can be made. The process being secret, this information is not being divulged, but results obtained from the use of the accessory indicate that purchasers of the new ground connection have something to look forward to.

mission may be cartooned as Old Mother Witch riding through space on a broomstick sweeping the cobwebs from the sky with the new radio law as a broom."

# FOXES ALASKAN BLUES AND SILVERS; its bank references; Sentile Chamber of Commerce; many satisfied customers, Bookles

Chamber of Commerce; many melafied customers. Booklet fron. Brender-agrawment. Shipments from Scattle Ranch, CLEARY BROS. Fox Farms, Empire Bldg., Scattle, Wa.

## **B** Eliminator—What Is It?

(Continued from Page 22)

stile or rectifier, is a Rectron or Raytheon tube. The first uses the usual heated filament from which an electronic emission to the second element, or plate, provides the path for the one-way current flow. In the Raytheon tube the bulb contains a gas which breaks down and becomes ionized establishing a path for the passage of current in one direction. Some eliminators employ an electrolytic chemical rectifier which also has the one-way property.

Now that the current is flowing in one direction, it can be called a direct current, but it is not in the form that a battery provides. It starts at zero, builds up to a maximum and falls to zero again 120 times per second, and this rippling or pulsating would be just as objectionable and useless for radio purposes as the original A. C. These ripples must be amoothed out and the current evened up to a closer resemblance to that which a battery provides.

This is done by an arrangement of condensers and choke coils. The choke coils, due to their property of self-induction, tend to oppose the building up of the current, and to retard its fail. This smoothing effect is further carried out by the reservoir action of the condensers. This action can be likened to that of a dam (the choke coils) and a reservoir (the condensers) whereby a series of rushing unsteady mountain streams, may be changed to a steady even flow beyond the reservoir. This combination of choke and condenser is called the filter.

We now have a fairly steady one-way current, but of only one voltage. Our radio set requires several different voltages, 45 volts for the detector, 90 volts for certain amplifiers, 135 volts for a power tube, etc. We connect a bank of resistance units across the full voltage

output of the filter. By tapping off various points along this total resistance we can have any desired voltage at each tap. This voltage will be the drop scross that portion of resistance include.

The most desirable arrangement is to use variable resistance units, allowing an individual voltage adjustment for the various taps, since sets of different types require varying loads. The number of milliamperes required at the 45. 90 and 135-volt taps for one set will be different from that required by another set, etc., hence the advantage of variable control, allowing you to make the adjustments which will balance the climinator to the receiver.

Once the adjustments are made on the eliminator, it should be left absolutely alone. The variable resistance controls on the sliminator are NOT tuning controls on your set. They are there for one purpose and are equivalent to making the initial connections to B batteries in tapping off the desired voltages.

One serious source of trouble is in the by-pass condensers of the set itself. They often break down under the increased voltage supplied by the eliminator, and the eliminator unjustly gets the hlame. Since the eliminators themselves have by-pass condensers installed across the resistance unit taps, it is not necessary to use by-pass condensers across the B terminals of the set and the dealer who installs an eliminator often removes them before they can cause trouble.

The set owner who uses an ordinary voltmeter to measure the output of an eliminator often complains that his voltages are low. This is because the ordinary voltmeter will not give a true reading, the windings and shunt of the

instrument providing sufficient load on the eliminator to pull the voltage down considerably. Only the new type high resistance voltmeters can he used if any accuracy is desired.

In conclusion or summary, the B eliminator is essentially: 1. A transformer to raise the voltage to a value required to operate the apparatus which follows. 2. A rectifier, to convert the alternating current to direct current. 3. A filter to smooth out the pulsations. 4. A hank of resistance units, preferably variable. in order to obtain the several necessary voltages. The latter equipped with bypass condensers.

### Canada Still in Lead

The report just compiled by the Department of Commerce, Washington, D. C., shows that Canada was again our leading customer for the past fiscal month, having purchased \$193,276 worth o fradio apparatus. New Zealand and Australia were third and fourth, respectively, with \$45.592 and \$30.558. Australia imported \$21.951 worth of tubes and Canada \$12.878.

#### The Woman's Page (Continued from Page 28) is; there's some more, next week." Shrimp Salad

Fresh shrimp in the markets! Make this salad! Cut 20 boiled shrimp lengthwise; add an equal quantity of asparagus tips; season with lemon juice, chopped parsley, a little mayonnaise and puree of tomato. Serve on lettuce leaves; cover with mayounaise and aprinkle chopped heets over all Serve very cold.

Burgess Batteries

Cunningham Tubes

#### FIGUEROA RADIO SHOP RADIOTRICIANS

KOESTER

Crosley Sets and Speakers Expert Service on All Makes of Sets TUcker 6763 747 S. Figueroa St.

## Col. J. F. Dillon

(Continued from Page 24)

know of the other commissioners, the Colonel is the only one of them that has gone to the mat with puzzling broadcast questions, and-until the law broke down, some months ago, and the air became infested with PIRATE stationssoon to be things of the past, thank the Lord!-the 6th Radio District was celebrated as being the "best behaved" of them all-thanks to the Colonel's tactful, yet determined, manner of enforcing that which was believed to be a law!

I believe-yes, I am SURE-that Dilion is incapable of a narrow thought. let alone a narrow or mean action! To shake the man by the hand, and to look into his kindly, "straight-shooting" eyes, tells the whole story: "Commissioner of Radio, John F. Dillon-Officer and Gentleman"!



Especially Designed and Wound Furnishes "A" Current for Radio Sets REQUIRED FOR 3 TUBES OR MORE IMPROVES 3 TUBES

Equip Your Sat New

BLACK BROS., INC.

919 Block Bids.

Lee Angeles

## Superheterodyne Intermediate Frequency Transformers

By N. E. BROWN, Radio Engineer

(Continued from Page 32)

the transformer frequencies (In other words, unmatched transformers), would work out as an advantage for selectivity if it were not for the fact that with this means of getting selectivity the amplification per stage is greatly reduced, requiring increased input to the amplifier for a definite output and, as a result, just the amount of selectivity gained by stargering is lost by the overriding or forcing of the tuned circuits by the increased input. The ideal condition, however, is that all the transformers be worked at the point where they give the maximum amplification. or are accurately matched, it is found in making up a number of laboratory transformers, some giving a flat broad curve where the resonant point is flat and others that are quite sharp that the latter provide the greatest gain per stage and require less sharpness in the filter and permitting greater amplification in the filter, but they require more care in placing and wiring. They are, therefore, either the best or the poorest, depending upon who assembled them into the receiver and who is turning the dials. And right here I want to say there are a lot of real good superhelerodynes that are rendering good service IN SPITE OF THE OPERATORS rather than because of them. You will recall that Mark Twain in speaking of one of the river pilots, in his piloting on the Mississippi, who had just put the boat through a very had place of river while sound sleep, that if that somnambulist "could do such a kid glove, gold leafdiamond ring job of piloting while asleep what could be not have done if dead!" and that is just what I often think about the superheterodyne,

Now, about the "magic" frequency we hear so much of, some one says it should he evenly divisable by ten, another has some other fantastic idea as to the best or only good frequency, and so it goes. Well, let's look at it for just a moment from several angles. The higher the frequency the greater the tendency to regenerate, and under certain conditions this might result in greater all fold amplification per tube,

but it would be much harder to handle and the chances of destroying some of the accuracy of adjustment to the same frequency when constructed (because of unlike capacities of tubes, etc., when connected) would be greater, and in order to control the regeneration a less negative grid voltage will have to be used which reduces the input impedance of the tubes resulting in higher damping of the circuit with attendant reduction of selectivity. But as we go lower in frequency, say around 40 kilocycles, the spacings on the oscillator dial becomes closer, and while the tuning of this dial seems quite a lot sharper, it is more apparent than real.

While it is quite likely that with an exact and systematic spacing of all the stations there might be some particular frequency that would minimize the placing of one oscillator setting of a station on one of the two settings of some other settings for each station it remains a fact that this is one of the fine features of the regular superheterodyne for, if there is a confliction on one setting, ninety-nine times out of a hundred the other is clear.

## **International Concerts**

The Los Angeles branch of the Columbia Phonograph Company nounces the inauguration of a series of "International Concerts," using Columbia Viva-tonal records, to be given over station KFQZ, on Sunday evenings. The first concert will be devoted to real Italian folk music, something quite different from the Italian grand opera forms with which the public is so famillar, and the time will be 8:00 to 9:00 p. m., Sunday, March 14. This series promises to be a real and definite contribution to the musical education, as well as the pleasure of the radio public.

## Timely Trade Topics

W. C. Perkins of the United Cabinets Manufacturers' Corporation announces that this company have several newly designed cabinets; some with Utah cone speakers built in, and others with horn speaker using Utah loud speaker units. The complete line is being displayed and distributed by C. W. Smith Company, 1125 Wall street, Los Angeles. This company report very heavy orders on the Pacific coast and shipments are being made in carload lots.

Mr. Sidney M. Spector of the Spector Company, with offices in San Francisco, Los Angeles and Seattle, has just finished an extensive business trip throughout Southern California, calling on the wholesalers and the dealers. The Spector Company represents the Acme Apparatus Company, the Alden Manufacturing Company, Polymet Manufacturing Company and the Central Radio Laboratories.

Mr. Spector has lately become a "Benedict," and we all send him our most hearty congratulations.

Mr. Lyman Gage, president of the Precision Electric Mfg. Co., of 1918 Santa Fe avenue, Los Angeles, California, is making an extensive trip throughout the Middle West and the East.

He is not only visiting the Manufacturers who supply him with the raw materials which goes to making up his Precision "B" Units and Pemco A. & B. Power Units, but he is also looking over the Middle Western and Eastern territory very thoroughly in view of going into National distribution this fall.

The Pemco A & B and the Precision "B" Units have been so popular on the Pacific Coast and in the intermountain districts that there seems no reason why they shouldn't be equally popular in the Middle West and the East.

A. J. Tobey Co., weil known Radio accessory jobbers at Fifteenth and Hope streets, Los Angeles, have been appointed jobbers for Southern California for Gosilco Super Aerial Wire, manufactured by the Gosilco Radio Products Co., Huntington Park, California.

The Utah Radio Products Company announce that they have perfected and now have ready for delivery two piano speaker units. The construction is such that it can be attached to any piano in less than three minutes. They also have perfected and will have ready for delivery at an early date two console type cone speakers. These new items, together with the improved loud speakers and loud speaker units will be distributed through their established Utah jobbers all over the country and will be on display at the Radio Manufacturers' Show in the new Stephens Hotel, Chicago, in June.

Eight new authorized Federal dealers have been added to the Federal Ortho-Sonic family in Southern California in the last two weeks, according to R. B. Yale, who reports a wonderful spring business in the Federal line.

The Figueroa Radio Shop, an up-to-the-minute radio store, located at 747 South Figueroa street. Los Angeles, has set a good example for all other dealers, and has shown them how to bring customers to their store. They give a year's subscription to Radio Doings to every customer who buys a complete radio set. The customer has to come to the store each week to get their copy. The purchaser of the radio set appreciates this gift and it brings the dealer into weekly contact with the customer.

## Broadcasters' Digest

Beethoven's Opera, "Fidelio," will be a KPO feature on Thursday night. March 24th, on the anniversary of the great composer's death. The opera will be rendered by a chorus of more than 40 voices and a thirty-piece orchesira, comprising the most prominent musicians of the Bay Region. It will be broadcast from the Hale-Chronicle station by remote control from the Scottish Rite Auditorium, beginning at 8:15 p. m., lasting for three hours. The soloists will be among the most accomplished singers in California.

A great "air" university in which the heads of the foremost colleges and schools in the country will be the directors, is planned by the National Broadcasting Company, inc., as one of its features of the future for broadcasting from its national hook-up, in which KPO, the Hale-Chronicle Station will be the San Francisco link. This was recently declared by George F. Mo-Clelland, vice president and general manager of the company, who is visiting San Francisco to supervise the completion of the Pacific Coast chain of the company, eventually to become an important unit of the national chain.

The first station in the West to observe its fifth birthday anniversary will be KHJ, the Los Angeles Times station, when that studio goes on the air at 12 noon on April 13th with a program lasting until midnight.

The veteran announcer and manager of the station, Uncle John, will officiate. Uncle John, who to John S. Daggett, has been with KHJ since its inception and is Dean of Microphone Announcers in the West.

Charlie Wellman, for a long time announcer at KFWB and later at KMIC and before that at Chicago, has been free lancing recently. He has appeared at KNX, the Evening Express radio station, with several programs. The most recent was a vaudeville hour, handled by the popular Charlie and featuring some of the best local talent.

An unintentional international program was staged in Los Angeles recently from KHJ. No previous effort was made to arrange a program representing various nationalities but the five-hour broadcast contained several.

The entertainment opened with an Irish song, followed with a Hebrew lament by the concert trio. During the children's hour a Bulgarian child recited and two little Gorman children played a cornet duet.

The evening musicale included a program by the Moana Hawaiian Entertainers in their native music; negro spirituals by the Cotton Blossom Singers, a colored quartet; zither music by the Tyrolean Swiss Zither Club; tunes by the Philippine Pan-Pacific String Band; yodeling by the Alpine Boys; and the evening broadcast concluded with dance tunes from an American jazz band.

The Stewart-Warner Products Service Station, 1366 South Figueroa Street. Los Angeles, wholesale distributors of Stewart-Warner Matched Unit Radio, are sponsoring a series of weekly radio programs, the first of which was broadcast from KFWB, Hollywood, on March 16th. Stewart-Warner programs will be on the air every Wednesday evening over the Warner Brothers station between the hours of 8 and 9 p. m.

av Ler Accessories

Complete



## Portable "5"

Clear Tone — Selectivity Volume—Distance at an exceptionally low price





The Trav-Ler is finished in attractive black leatherette — 10" x 121/2" — weight 24

Single dial control; five tubes; spring base sockets; built-in loud speaker; 2 stages of radio frequency; 1 detector; a stage of audio amplification; phone jack and loop aerial are some of the many features of the Trav-Ler Portable. All parts are standard and easily obtainable.

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