# The Providence Sunday Journal

Listening in" WITH DROVIDENCE AMATEUR. RADIO OPERATORS

> Catching Messages From Air Fascinating Sport and Educational Pastime for Group of Young Men of City Interested in Serious and Scientific Line of Work



ORES of messages sent out by wireless from stations and teamships in all parts of the world are daily being received and translated by a group of amateur radio operators of Providence who have become interested wireless telegraphy through connecwith radio clubs or individually

these messages are not sent to the score flight from source to intended destination the words are picked up by the Providence hove whose instruments are attuned to the various ranges of the messages. It's a fascinating indoor sport, in pastime for young men who wish to devote their spare moments to a serious and scientific line of work.

The popularity of wireless among the younger generation is easy to understand after visiting one of the wireless stations. There is romance in messages picked up as they flash from steamers hundreds of miles off shore to relatives from whom they are parting or prepar-

#### Romance Comes

#### in Translations

The romance comes, of course, with the translation of the messages from the wireless code and this is what the mafority of the youthful radio operators can do after a few months of study. At first the words come too fast or, perhaps, are received in French, Italian or other foreign language, but by continued practice the young men soon become expert in jotting down the letters indicated by the hum of the receiving instrument and catch the messages regardless of the speed of the sender.

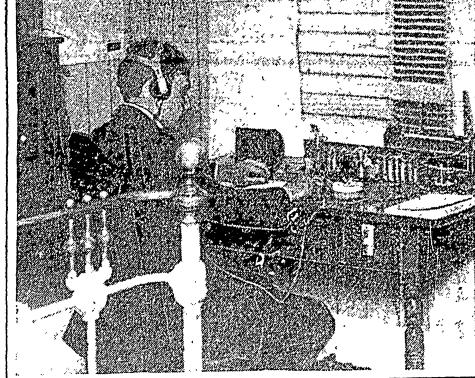
The wireless activities of youths of high school age recall the days when the land telegraph was being developed. The Morse code of dots and dashes was home, and with sending and receiving country. lastruments the vormesters have passed many happy hours cheking off messages

There was an element of mystery in the flashing of letters over the thin copper wires between instruments a blood away. But hos far greater is the mysterious and aimost uncanny element in

#### Land Experiments

#### Are Limited

The land telegraph experiments were limited. There were always the weres that had to be strung between instruments. The message, must necessarily Several Organizations be purely "local" and only the boys included in their own private circuit were able to send the does and dashes from one to the otter. Tapping of cortaeclai and referend were has live a been



Phillips,R.Burke talking with another highschool student a mile away

antennae and a receiving instrument of are licensed, it being accessary to get the Tapping the air for messages is not fortions that prevent the publishing of certain messages picked up by amateurs, The wireless opens up a new world to

the youth. He revels in the thrills that come when listening in and hears that a ship is in distress at this or that latitude and longitude. He hears the messages of steamship passengers who wish to acquaint their friends on shore that they George II. Huddy, Jr., of 204 Bowen young operator every little sound had a are "well and happy." He picks up then learned by boys who were intent warnings of feebergs that must be avoidupon the study of telegraphy. Many a ed by shipping and he listens in while Youth has strong wires from his room a speech of the President of the United Across the backyard to his playmate's States is being sent to some foreign

The aptitude of youth to learn quickly is especially illustrated in radio work. Keen interest in wireless coupled with carnest application has developed scores graph, the Continental code for wireless, through the Technical High School Radio | sending apparatus and bad a limited operblehing up messages thing unseen the school faculty. Although lack of operator of the "first grade, amateur," Club under H. D. Peabody, a member of ator's license. He is now a licensed firancing the work at the school has been and, of course, has a station license. 's handicap Mr. Peabody has obtained excellent results in developing operators. A number of the members have their own stations in their homes and are recenting and sending messages daily.

#### Are in Existence

School Radio Chib several other organi- vention written by the young man and Washington, D. C. Huddy has visited rations of the same kind have came into rubbshed in "Q. S. T.," a national maga- the station and learned the method by existence, their members adding to the same devoted to wireless, brought a flood, which the information is given out. For Wheless The 10 th with suitable city and State. Many of these operators formation.

sufficient strength is in the world circuit, permission of the Government to have a sages. The sending stations are given wireless activities. 'call signals," by which each man is To the uninitiated a visit to a wireless known among radio operators, and for operating room is an interesting experithis privilege a Federal license is re-lonce. The array of wirds and apparatus

> street, whose photograph is printed meaning of its own. in the artgravure section. The young i man, who is now only to years to the Sunday Journal reporter who was of age, first became interested in wireless telegraphy five years ago, and since that time has devoted most of his waking hours to the study of operating. Before the war the young man had

f well-trained operators. Impetus to had rigged up his own automac, assemhe work in Providence has been given bled and connected up his receiving and Young Huddy has also become an exto talk with other wireless telephone

operators within a radius of New York Official Time city. An improved circuit for the wireless telephone is an invention of his. This | Sent Broadcast piece of work has brought favorable com-

Franklin Huckly is now in his second radio station. No license is necessary hard work manages to prevent his schobidden by law-though there are regula- for a station that merely receives mes- lastic studies from interfering with his

> is bewildering to other than an elec-Among the expert radio operators of tricion, and the hum of the instruments the younger generation in Providence is which cuit a buzz of varying tones bears Franklin S. Huddy, son of Attorney no message to the novice. But to the

> > "That's Newport calling," he explained listening in with him.

> > The volume of gound changed as Huddy moved the range lever. "There's Cleveland calling."

And again a clumge of sound-one of higher tone.

"There's a message from an incoming thip. Personal message,"

And Huddy began copying.

"There's another message from an incoming sldp, but it's in Spanish," he added as he copied sentences that only a student of Spanish could translate. He port in wireless telephony and is able under the radio law, be disclosed by the

### 传系等

At 12 o'clock noon and again at 10 p. m ments from experts in all sections of official time is sent broadcast by the Since formation of the Technical High the country. A description of the in- wireless station at Arlington, near pendulum ticks off the seconds, which are who have learned to listen in at the time factory results. This all requires ex-

sounded by wireless. There is an interval of 10 seconds before the hour that no sound is given out. On the hour a prolonged buzz is sounded. This gives year in Hope high school, and by dint of the time for ships at sea, and at these hours, 12 noon and 10 p. in., all steamers within range of the signal set their chroin various amateur radio stations are

> The antennae of young Huddy's wire-Messages from Eiffel Tower in Paris are frequently picked up, and from other parts of the continent as well as from stations in England. His record for long distance was a message heard while being sent from the Philippine Islands. The sending range of the young man's

apparatus reaches about to New York city. He has almost daily wireless talks with the station at Brown University rad with other amateur operators about the city. Wireless conversations with operators aboard New York boats plying Narragansett bay are of frequent occur-

#### Surprise Shown at Huddy's Youth

by wireless some of the steamer operators. have called at his home and it has been with considerable surprise that they have haken hands with a mere youth. Their surprise may be due in part to the fact i fast instrument requiring considerable kill in operating. Comparatively few amateurs have mastered this key.

Huddy's activities in wholess telephony ous teen unusually successful. One of his experiments with this instrument is the giving of nightly concerts, which

there concerts are scheduled. The music perience through experimentation. But is from a phonograph that Huddy operates in front of the transmitter and the ing of instruments and experience in oprecords are heard distinctly at receiving stations about the city and at even greater distances.

In addition to equipping his own wireless station. Huddy has had a hand in starting a number of other wireless stations for his young friends about the city. To him they come for advice when less has almost unlimited receiving range. planning a new arrangement of instruments or adding equipment.

> Many calls are received at the Huddy station from the youthful operators who need assistance. It may be that a new bulb isn't working right or battery trouble interferes with efficient operation, Franklin Huddy is called upon to make an inspection and remedy the difficulty. Wireless Station

#### at High School

cial design of antennae. It may be indoor up and a remedy effected, equipment or may be a specially designed equipment for the exterior. Huddy sizes After becoming acquainted with Huddy type most suited to meet the existing

> Huddy is now assisting in the installation of a wireless station at Hope high school. The work is already getting under close of the school year a well-equipped when sent at high speed, which is operating room will be in running order. This will serve as an experimentation station for all students of the school who are interested in wireless telegraphy. Amateur operators have their troubles

with wireless apparatus. Atmospheric conditions must be met and tuning of in-Quite to the concerny in the case of number of amateur operators about the of letters to his home for further in- five infinites before the hour a great are listened to by other operators struments has to be accurate for satisfactors.

there is one trouble that all the adjusterating cannot remedy, and that, is the interference caused by defective street lamps in the city.

Phillips Burke

WilliamPowers

The young operators are up in arms over the condition and have considered taking the matter up with the City Council. The trouble is found in the buzzing are lamps, the sound of which is recorded over the wireless, completely drowning out the message waves that would be otherwise be received. In this way much of the pleasure that the young; men would enjoy by operating at night. is curtailed.

The boys explain that the humming arc light is easily remedied by better grounding of the circuits. Defective grounding will frequently result in the annoying, humming sound. If the lighting company would inspect their lamps for this Huddy has designed and erected several trouble it could be entitrely eliminated, different types of antennae for his fellow the boys assert, and they believe that operators. Certain conditions require spe- they are entitled to have the matter taken

As far as is known the youngest radio operator in Providence is George L. up the situation and recommends the Uradley, the 12-year-old son of Mrs. Charles Bradley, Jr., of 170 Waterman street, who has been experimenting in wireless for the past year. He has mastered the code and can talk with his friends about the city. He says that he way and it is expected that before the still finds trouble in receiving messages natural difficulty for one who has been studying wireless only a year during his, spare time from school.

Another of the enthusiastic operators is William Powers, son of Mr. and Mrs. Herman W. Powers of 30 Medway street, who is President of the Technical High? School Radlo Club. The young man has

# TWO RHODE ISLAND WOMEN MAKE OLD ORCHARDS PAY

With Some Technical Knowledge and Plenty of Grit Difficult Tasks of Pruning, Spraying and Harvesting Are Tackled And Fine Crop of Apples Results From Labors.



Spring Brings Its Labors in the Orchard

do it because it is health ful, outdoor work, and bause we like it, but more ecause it is a sort of fundamental industry that ought to be encouraged."

So answered Miss Helen Emerson and Miss Maude Chace, as they paused for a few minutes in their busy tasks at the spring care of their apple trees at Tower Hill, in Cumberland, to answer the "why" of their decision to try to bring back some old Rhode Island orchards. That they are in earnest in their interest in the subject is shown by the fact that a year ago they put aside all other activities of their busy lives and spent 10 weeks at the Massachusetts Agricultural College at Amherst to supplement by a little technical training the knowledge which had been given to them by their girlhood spent in the country.

As a result of their decision, and their training, they have already passed one successful season in producing a crop of Rhode Island apples, and are now busilyand confidently-looking forward to an-

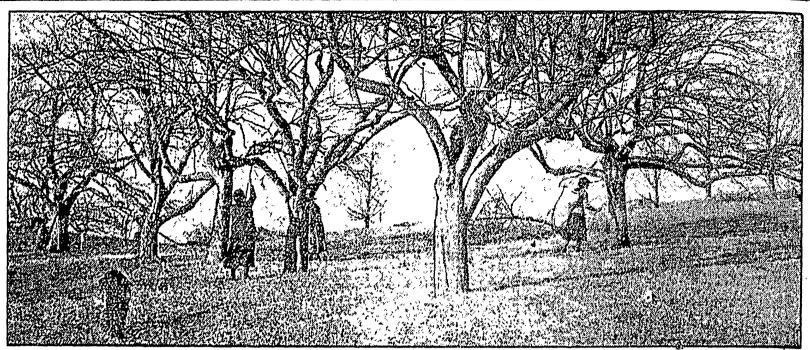
Miss Emerson is the daughter of Lowell Emerson of Pawtucket. She is college trained, but says she has always had a strong liking for the country and country life. So a little more than a year ago, she and a chum, Miss Maude Chace, also educated and qualified for a "city" position if she should choose one, decided to devote their energies to rehabilitating the old orchards on her father's farms on the forbidding slopes of Tower Hill.

They found ample material to challenge their enthusiasm and provide toil for their willing hands. It was not all fun, by any means, for they found that the apple ceneration ago and care for faithfully at one time by their former owners, but since neglected, were much in

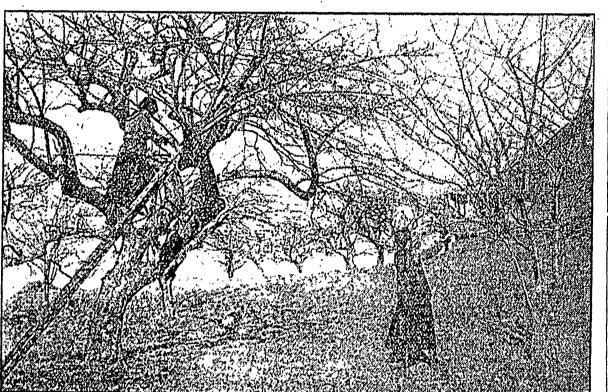
need of care. The trees are on two abandoned farms adjoining the Emerson farm on Tower Hill. There, are about 125 trees that are of full growth, or a growth of perhaps



A Close Inspection for Lurking Places of Pests



Scraping the Bark of Trees to Destroy Hiding Places of Scale



Pruning is Necessary for Size and Quality of Fruit

was so much needed to go into fruit, or, if it great quantity of fruit should "set" upon it. It would grow to maturity in abundance of numbers, but poor in

also a block of 20 young apple trees on the Emerson place, which had been set done for one season. To be sure, they alone, out about five years ago by Miss Emer bad aheady had their experience as son's father. So the two had some little undertaking on their hands, when garden crops, but that was ground farming the war, raising the burden of orcharding, link, and there is no other work that expending out they were determined to show what actly compares with standing on a ladder cating insects which are beginning to get cating insects which are beginning to get they could do, and also that female hands and reaching out to the length of one's would not be less at le than those of "men arms to saw off a branch. And when

they could do, and also that female hands would not be less at let than these of "men folks," even at work that required climbing and lifting. They went leto the work, knowing what was ahead of them, and for fear that they might not be entirely "up" in the scientific side of tree culture, they spont there has been allowed to grow the the works at the Amherst college, con idealing it a good training there," and Miss Emerson

In the spring of 1920 they found themselves confronted by a vast amount of the selves confronted by a vast amount of the work. In the years during which the old trees had been allowed to go without attaction they had shot forth great branches, "suckers," and wild shoer, running hither and thither among the resulting and making a great mass of until almost time for the leaf and fruit. They lead and making a great mass of until almost time for the leaf and fruit. They had capted that a lime-sulphur tops, and making a great mass of un-needed wood. This extra growth, too, buds to show themselves, and then spray would take the vitality of the tree, which with the purpose of kuling the San Jose scale, the applie that becomes a leaf-cat-ing insect, and also heading of the ad-vance guard of boring insects or lice.

in their mischlet by that time. This is quely followed by the calyx spray, the most important of all. This is applied

For spray material, Miss Emerson and apples this year. Many apple trees be Miss Chace agreed that a lime-sulphur solution was preferable to an "emulsi-fied" kind. They bought materials and mixed their own solutions, finding this inexpensive, as well as a way to make use of the knowledge they had gained The solution chosen was one containing in their Amherst course. The "dormant" four elements, lime-sulphur, arsenate of lead, nicotine-sulphute and milk of lime, to put out leaves, a period that places the last as a precentative of burning. An this spray in the latter part of the month of full growth, or a growth of perhaps of full growth, or a growth of growth or a growth of growth, or a growth, or a growth of growth, or a growth, or a growth of growth, or a growth or a growth of growth, or a growth or a gr

was the beginning of busy times for the

It turned out that the women orchard-It turned but that the women orchardists had to learn a few other things besides the actual science of caring for trees, for inovitably with their spray outfit they bought a gasoline engine and with it all its attendant whims and caprices. Yet they found themselves masters (or whiteresse) of it and formal. prices. Yet they round themselves masters (or mistresses) of it, and found no difficulty in making it perform its functions. It was a little "too much," however, when the machine broke down right in the midst of the calyx spraying time, and it was necessary to borrow a sprayer to complete the job while a new pa sprayer was ordered from the fac-

The first season brought its rewards in a fair crop of apples, although the two women say they did not get all per-fect fruit by any means. "We are sorry to say we had some cider apples," they said. But most of the crop was good, and was marketed in bushel boxes, each marked with the name "Upland Orchards," in true advertisers' style, showing that they learned more than the tech-nical side at Amherst. They also found time to prepare some exhibits for the fall show of the Rhode Island Fruit Growers' Association, and the Rhode Island Horticultural Society, in each of which they landed some prizes. Just to show that women could do all the work as well as men could, they made their own apple boxes,

Now they are ready for another sea son, with just as much hard work to do and just as much enthusiasm to do it. There was more pruning to do, for it would not do to remove all the old wood in one season. So the Sunday Journal man found the women hard at work with their ladders, pruning saw and scrapers, getting the trees in readiness for the season. The old, loose particles of the bark was scraped off, so that the spraying solution might be driven hard into the crevices and find the lurking places of the San Jues scale and other page. of that sort. Removing the loose bark too, makes the trees pleasanter to work on, and gives the entire orchard a much

more attractive appearance.

As to the help problem, the "girls" say they have had no trouble. Last summer they found they had girl friends who were just as much interested in or chard work as they were themselves, and they came and stayed as long as they were needed. This spring they have al-ready had visits from friends, who are interested in their work, and when they need holp, they are sure they can get it easily. They intend, however, to follow the example set in Tennyson's "Princess," and keep to their own sex in all the help

they employ.
Of course orcharding signs at the pres sist in having an "off" year alternately, and this is the "off" year. Putting the case roughly, fruit buds are borne on the little fruit branches on alternate years, and a trained orchardist can tell in the spring which are the fruit buds and which the leaf buds. But they are going to go into the work just as though a big ecason was useured. And they are

## May is Earlier by Nature's Calendar

Flowers and Birds Arrive Fully Three Weeks Ahead of Last Year's Spring Schedule, Despite Cold Days

BY HENRY E. CHILDS. Technical High School. AY Day comes early this year. We have many calendars by which we may measure time. The Gregorian and Julian calendars are not involved in this measure, for May Day must come on the first of the month. The calendar of nature has pushed things shead, so that May has come upon us earlier than usual. Flowers and birds year's schedule during the early spring. The third week in April found a slowing down of nature's activities on account of all at that season are singing in the the cold rains. Monday opened up bright early morning, we shall come closer to down of nature's activities on account of and a little warmer. Let us hope that it is a good omen for the days to come.

Now we shall be ready for May walks and May breakfasts galore. There is where a few individuals of a given species something very fascinating about a May sang for part of the season, but not for all of it. Later on some other individuals breakfast, if it really deserves its name. A May walk may take place at any time during the day. But to have a really truly May breakfast means that the party must pull themselves out of bed in the cold of the early morning, shiveringly scratch together a bite to eat while laying out the magnificent box of lunc provided with fastidious care for the big ner and wait for an early street car. On that car, the May walker will find a group of "regulars" whose ready jibes and friendly conversation with one another are little short of amazing to one who travels with more reserved groups on cars two or three hours later.

birds that are singing are not merely a few stragglers, for nearly every male is at work singing his praises of the day that is opening before him. These birds do not lie abed for a few hours after sunrise, with the shades drawn, but are beginning to stir when the first gray light of dawn appears. The United States Biological Survey has assumed that at this time every singing male in the vicinity is going it, and therefore has made estimates of the numbers of birds in a given locality, basing its count upon a count of the songs beard in the early. were fully three weeks ahead of last a count of the songs heard in the early

morning.
A slight modification must be made. I we say that all of the males that sing a the truth. In the current number of The Auk there is an article on the singing periods of birds, in which the author states that he has found some cases ties of their songs. That recognition of individual songs requires a good musical ear. It is something of a task to recognize all of the common species, unless one is naturally gifted musically. The more striking variations from the usual song type will be apparent to an ordinary observer, even through he finds it suffi-

of the same sort start up. Their song periods overlapped, but there was no time In the summer at which all of them wer Aretas A. Saunders of Fair field, Conn., found that, although field sparrows sang from April right through till the early days of August, there was no individual bird that sang through all that time. He distinguished the individuals by their location and the peculiari

That early morning trip has some other country like the usual song to identify it, pleasures in store for the manecustomed. The musician who wants to earry the adventurer in hours later than the west game further and record the numerous Six months ago Phillips P. Purke son His instruments are nearly arranged in of Mr. and Mrs. William P. Burke of a roll top desk which has been altered to 335 Lloyd avenue, established a radio statement for the instrument board and send-

vidual songs, as Mr. Saunders has, opens the way to some interesting studies of the lives of individuals during their summer stay that can be correlated with the work done in studying the habits and range of individuals by trapping and banding operations.

An English sparrow is not such an un- golden threads might be hung interesting little bird after all. There is a lot of fun to be gained through watching them One such sparrew had a brand new experience the other day. A mouse appeared by the edge of a cellar wall near where some sparrows were feeding, One of the birds flew over to get a closer view of this strange animal. The mouse paid very little attention to the bird, actcoming to an abrupt phase when the rodent stopped. Then there was a flutter of wings as the curious one went a little closer. The mouse lifted a dissipation on search and the imprudent sparrow can harness the sun's energy.

It is treat to ther seasons, because it is only from the true I after the leaves have come out that the ones with a first the green part of a plant which dainful nose and the imprudent sparrow can harness the sun's energy.

It is treat to the green part of a plant which because it is only the ones with a first take upon the green part of that is used by the can harness the sun's energy.

It is treat to there seasons, because it is only the ones with a first take upon the green part of the green part of a plant which because it is only the ones with a first take upon the green part of the sun's energy.

Continued from Page One.

seen engaged in wireless work for about

Six months ago Phillips P Purke son His Instruments

The various maples have divided among themselves the task of brightening the treetops with their Jovors. The ret modes, familiar friends of the swemes flowers of still greater variety. Arbitantellight for the early life of the embry leaved maples were out about the same plant. The mother plant may lack the time, I think. The sugar maple took for of an animal mother in planning for up the good work latest of them all. One day the swelling buds burst open and on the next the sellow silk tassels wers found hanging from every bud. The trunk and branches seemed to be

such a difference in flowering season seems to be characteristic of the different kinds of trees and not due to slight dif-ferences in food or light relationships Sometimes we find that these other factors make a great deal of difference. Sunlight has some effect upon the ser-ion of blossoming of those trees. Pos-

built merely as a frame on which the

sibly it is almost entirely a question of high as though it knew that this gray warmth, supplied in this case because neighbor of his was not able to harm the conditions of soil and water supplied him. The mouse scuttled along a few were the same for all. The sun's energy feet and stopped, with the sparrow hot-, the no effect on the growth of thee foeting it alongside of the mouse, and buds, as it has upon the growth of the

quipment in his bedroom where he can |

been engaged in wireless work for about a year and is fast becoming proficient in receiving and sending. He has a well-caupped station and his experience in receiving has included the recording of messages sent from a station 399 miles away.

Six months ago Phillus I. Purke and His heart and day, thus getting the maximum amount of pleasure out of the work.

Raymond P. Adams, another radio entirely the statement of the work is finding wireless work a fastellating indoor interest. He is son of Howard R. Adams of 199 Cypress street.

a respectful distance and let the mouse, and some very interesting changes take they must eat to live. In the late summer and early fall it looks as though some plants have taken on the habit of some humans and merely live to cat opened the senson with their bright red. The result of such a practice is benedicial flowers. The elliver maple along our to the plant, though it may be less so streets was a close second in the race for for the eldentary human gourmand. The forming. These implies were forming purpose is to develop sex cells which can fruit when the sycamores and norways units and form the vital portion of a began to unfold their buds and display read. That seed is furthermore well plant. The mother plant may lack the lov of an animal mother in planning for

the weifare of her young, but she accomplishes it by quietly storing highly concentrated foods within the seed. When the embryo tree feels the urgs of warmth and moisture, it develops an appetite and begins to feed upon the food in its conveniently placed pantry. It grows vigorously and soon has a root which bores its way downward into the soil, where it soon begins to withdraw food from the soil water. That results in more growth and leaves appear. These leaves soon take on the task of becomes independent of the Original store of food set uside for it by its mother, the parts of the seed that contained the food. Sometimes the place for food in the Philadelphia Inquirer. is a seed-leaf or pair of seed-leaves. They were present inside the seed and are very different in shape and thickness from the true leaves. These leaves are the ones with which everyone is familiar. They take upon themselves the responsibility of manufacturing most of the food that is used by the plant through the

"Listening In" With Providence Radio Operators

Hareld L. Dewing, son of Mr. and Mrs. Alfred P. Dewing of 2% Camp street, first curpet which is known to have been joined his young friends in wireless work used in New York city was the property a year ago. He is a member of the notorious Capt. Kidd. It is said to Technical High School Radio Club and have been of Turkish manufacture, so is listed among the licensed wireless op-that it was probably a rug. It was val-crators with his other chures. The Dew- ued at \$25, a big sum in those days, and ing station is one that is especially disturbed by noisy are lamps and his work. A little over a century ago tables were is seriouly handicapped at night. The used only for the purpose of holding adventurer in nours later than the west game further and record the numerous at Lloyd avenue, established a radio statement board and send-sing ones. He finds all nature waking variations of songs that he finds, will have them. Burke is a chum of William Powers ing and receiving apparatus. Adams has been engaged in whether an enlarged field for enjoyment open to the Technical High once he gets outside of the city. The purpose of holding new reservoir. The project calls for a finding street lamp is less than 10 things to eat and drink. The great din-send drink. The great din-send drink in the finds, will have the finds, will have the finds and receiving apparatus. Adams has been engaged in whereast work for nearly wireless messages practically impossible. The purpose of holding new reservoir. The project calls for a things to eat and drink. The great din-send drink. The great din-send drink in the finds, which would impound the test table, which generally stood in the 2,000,000 acre-feet and make available for highly concert has made the receiving of littlehen, had folding leaves, which hung irrigation the entire water resources of down when not in use, and were proposed the Scale stool.

## Home Life Shows Great Changes

and cities, as well as those who live in sparsely settled sections of he country, have very little conception of the changed conditions of home-life from those of a hundred years ago. What vo look upon as things which we cannot do without, would, a century ago, have been considered luxuries, attainable only by a comparative few.

If some of our Revolutionary ancestors were to "revisit the glimpse of the moon," and peep in at the home of their descendauts, they would see things entirely rurange to them, and may hap think that the old fashions were good enough; while ve, in our turn, would wonder how it was posible for people to get along in such a primitive fashion as did the Puritans and the Initch settlers, says a writer

Up to the time of the Revolutionary War, there were no carpets on the floors of the houses of New York, Boston or I'hiladelphia, if we except the homes of the very wealthlest.

A sprinkling of sand over the floor was deemed sufficient, and was believed to give the room a clean and neat appearance. The early Dutch settlers of New York used on special occasions, when dinner was served in the parier in-stend of the kitchen, to lay a piece of drugget cloth under the table to protect the carefully scoured and waxed floor.
It may be noted as singular that the

-1111 young people who live in towns fup by movable legs when it became neces sary to enlarge the table. In 1720 small tables of japanned ware were introduced.

They were used for the tea service.

A leading article of furniture in the houses of our forefather was the cyphouses of our forefather was the cyp-board. It stood in the parlor, when there was one, or else in the kitchen, where it occupied the principal corner. It had slielves of wood, on which were displayed the best dishes of the household, without regard to what their quality was

Cupboards were made in all styles, and, f the owner of one of them was well-to do, it was provided with glass doors. But all of them were built so well and solidly, that they were handed down from one while some of generation to another. them are preserved to this day.

Ante-revolutionary chairs were of Russia leather, and adorned with brass nails in single and double rows. Others were of Turkey leather, and there were chairs with seats of matted rushes. Some had cushions of tapestry or velvet, trimmed with lace, and some were of black walnut with colored worsted seats but all of them were straight-backed and must have been very uncomfortable.

The hedstead was the most costly plot of furniture in the olden-time. It was of wood and had a canopy from which depended curtains. It was the custom to sleep between two feather beds, and the pillows were also of feathers.

The sleeping room of the heads of the household was always the best equipped room in the house. One thing is certainthat our forefathers, while they did not care for show, insisted on having everything of the most solid and substantial character.

The Town Must Move.

In connection with the construction of the American Falls reservoir on the Snake river in Idaho, legislative authority has been given to purchase, condemn and inprove land for a new town site to replace the portion of the town of American Falls which will be flooded by the new reservoir. The project calls for a 90-foot dam, which would impound