ANNE HIRST Your Family Counselor.

"Dear Anne Hirst: About that * toes. When you finally promised girl who can't hold her man, I'm * to marry him, he relaxed—and n a similar situation. I haven't now he is painting a true picture of the life you would lead as given up the hope of marry-ing, for there are several men I could have.

But there's only one I worry "For a year and a half, we've been seeing each

other all the fime. But for some onths, his attitude has changed. He still says he loves me, and one day we'll be married. But-"He is not even affectionate any more. And I'm lucky if I see him once a week! When we go out, he is in a hurry to get me home early, so he can pal around with his men friends till all hours. And "AM I SELFISH?" "They seem to be my only com-

petition. I don't object to them at all. But if he'd pay half as much attention to me, I'd be so happy! "Am I being selfish? I don't want

CONFUSED" * No wonder you worry! When * a man feels he has to say he * "still" loves you, and "some day" * he'll marry you, a girl should * realize that their romance is * withering before her eyes. Unless she can revive his complete devotion and his need of her, the end is not far off. So long as this man was un-* certain of you, he was on his



by Anne Adams ONE yard of 35-inch for the small size! Little more for the other! As shown in diagram this apron is ONE piece plus ties and pockets. You could give MORE gifts this year if you use this and stolen gold and silver that was 14, 16; medium 18, 20. Small size takes one yard 35-inch. (35c) in coins (stamps cannot be accepted) for this pattern. Print Send order to Box 1, 123 Eigh-

* his wife. * Can you believe he would be

* more attentive then?

* No girl in love wants to play

* second fiddle. If he is so de
* pendent upon his friends, he

* should not marry anybody. It is

* his choice to make his the side. * his choice to make-but the girl * may have to take a firm stand * and force it. I cannot know, of course, why

this man's affection has dimin-* ished. There could be several reasons. It is certain that he now * feels he can neglect you with * impunity, go his own way, and be sure he will find you waiting * when he chooses to come around. -While you wear your heart out. * worrying.

* Now let him worry. Go out with these other men who are

eager to take you, and leave him * free to be with his friends. Miss-* ing you as he will, and alarmed * by the competition he faces, he * will discover how much you really mean to him. * Whether you mean all, or noth-* ing, you have the right to know. Anything is better than this tur-

* bulent anxiety you are suffering * now. Some men want to have their cake and eat it too. No self-respecting girl will permit that for long . . . If this situation worries you, write to Anne Hirst, Address her at Box 1, 123 Eighteenth St., New Toronto, Ont.

TESUNDAY SCHOOL

By Rev. R. B. Warren, B.A. B.D. The Conquest of Canaan

Joshua 1:1-7; 6: 1-5, 20. Memory Selection: As I was with Moses, so I will be with thee .-Joshua 1: 5, 6.

Joshua and Caleb were the only privileged to enter Canaan. Joshua successfully led Israel in its first encounter with the Amalekites while Aaron and Hur were the two faithful spies who recommended that Israel go up and possess the land. He became a minister to Moses. On the death of Moses he became the servant of the LORD and assumed the leadership of Israel. When they crossed the Jordan they came to the walled fortress of Jericho. The manner in which the city was taken was unique. God, as of proceeding so unmilitary and apof the faith of Israelites in Je-hovah. But the walls fell when the people had made their thirteenth trip around the city and had shout-

ed and the priests had blown their trumpets. The incident encouraged the Israelites and struck terror to the hearts of the Canaanites.

akes one yard 35-inch.

This pattern easy to use, simple

Among the events of special interest are the deceit of the Gideonto sew, is tested for fit. Has com- ites, and the sun and moon standing still as Joshua continued the battle. Send THIRTY-FIVE CENTS | Truly Joshua proved God's promise, "As I was with Moses, so I will be with thee," to be true, God plainly SIZE, NAME, ADDRESS, buries His workmen but carries on His work. He never wearies! How comforting to realize that the same God is ours today.

CROSSWORD PUZZLE					9 Narrow inlet 10. Peculiar 11. Tiny 17 Salad dressing 19 Asterisk 21. Bangs					35. Card game 38. Whole 42. Bushy clump 44. Addresses 46. Old name for Ireland 48. Moving wago			
ACROSS 1. Actuality 6. Astern 8. Black bird 12. Scent 13. Pasture 14. Military assistant 15. Triangular inset 16. Soft drink 18. Short-napped fabric	2. Bother 3. Furrow 4. Handle 5. Entirely 6. Fixed charge 7. Pack down 8. Precentor				22. Blind fear 23. Son of Seth 24. Picture puzzle 26. Fat 27. Monammedan nobie 28 Shelt 31. Mark of a blow				ele In	49 Southern state (ab.) 50 Ripple agains 51. Large wine cask 52. Affirmative 54. Perceive. 55 Collection			
	1	2	3	4	1888	5	6	7	T	8	9	10	11
	12		1	-		13				14	-	1	
180ric 20. Deep hole	15					16			17	-			
5. Confined to a place			18		19			20					
9. Fall behind 0. Afresh 2. Italian capital	u	122	1	1		23	24		25		26	27	28
3. Literary fragments	29				30			31		32			-
4. Garmenta 6. Scarlet 7. Particle	33	-			34			-	35		36		100
9. Pout 0. Wooden pin	37			38		39					40		-

41 42 43 44

48 49 50 51 51 52 52 54 55 54 55 58 58

59 61

45 46 47



Crochet King-George Link, 49-year-old oil company foreman of Bunker Hill, was named nation's champ crochet artist. Link, who does most of his crocheting in a bar ("my friends are used to it"), shows his prize-winning white tablecloth.

CHRONICLES GINGER FARM

It is grand to have all kinds of electrical conveniences - and of course once you get used to them you wouldn't want to be without them. But one thing is certain the more things you have to work

> nightmare. we'll look after it in a day or two."

"A day or two!" I repeated, "for When she gets tried she comes the efficient cause, was magnified before all men. His ark and his ministers, by their prominence, at the head of the procession, were especially honored in the eyes of Israelite and Canaanite. The course of proceeding so unmilitary and apoint of the procession were especially honored in the eyes of Israelite and Canaanite. The course of proceeding so unmilitary and apoint of the store with the radio acted." My indignation really worked. In fifteen minutes I was out of the store with the radio. was out of the store with the radio under my arm all fixed up and Children's Feet ready to go.

Next on the list of casualities was a warming pad. But that couldn't be fixed and since it has become a necessity around here there was nothing for it but to buy a new one.

gifts this year if you use this and stolen gold and silver that was apron pattern. It will conserve your fabric, money and time.

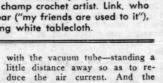
and stolen gold and silver that was to have been given to God. Thirty-six men were killed. The wicked over the front door. And it wasn't on other items of clothing. Nothing does more to spoil the fool ing does more to spoil the fool ing. Pattern 4718 comes in sizes small

4. 16; medium 18, 20. Small size

Six men were killed. The world over the front door. And it wasn't a burnt out bulb in either case. It was ten days before we could be special inover the front door. And it wasn't on other items of clothing. Nothget, a man in to fix them-about half an hour's work. While the electrician was here I got him to look at our electric kettle—the plug used to get so hot we could smell the rubber. He finally put on a new the same the inside. With a solid rubber plug it is impossible to tell what is happening. I am telling you this as a warning . . no one can be too careful with electrical appliances. But I wonder how many fires have been street by the same than the longest toe, leather should bug at heels. To be sure should be about three-quarters of an inch longer than the longest toe, leather should bug at heels. To be sure should be about three-quarters of an inch longer than the longest toe, leather should bug at heels. To be sure should bug at heel have been started by using some-thing that needed fixing—but which shoes meet the above requirements. nobody had time to fix. There is some talk these days of unemployment-but there seems no sign of

it when anyone wants a job done. We thought we had come to the then tonight my typewriter started acting up-so things don't have to be electrified to give trouble. This time I didn't wait for a mechanic I turned the typewriter upside down, watched to see which levers did what, found where they were sticking and then brushed them lightly with oil. That's all and now

it works. Oh, but I mustn't forget to tell you about the clock! We have a very nice little 8-day travelling clock that was given us as a wedding present. Last week it got tired and would go only for about five minutes at a time. Since it would run that length of time I concluded there was nothing broken and that maybe it might be particles of dust stopping the delicate mechanism. So I set the clock on a chair, opened up the back, and blew into it



clock has been ticking merrily ever

since. . . . Come to think of it, most of our worries occurred last week-elec-tion week-maybe that accounts for all the trouble. Certainly the air was charged enough to upset the balance of any intricate contraption. I'll leave it at that!

One thing around here that works perfectly is an old-fashioned octagon-shaped wooden mouse trap in which I have caught 14 moose with the more things you have to work with the more things there are to go wrong. Right now I could write a pretty good story on "The Inconvenience of Conveniences." Just about everything that could go wrong has gone wrong around here during the last few weeks. And trying to get anything fixed is a large weeks. And trying to get anything fixed is a large with the would much rather hunt them in the field than sit waiting for them to come than sit waiting for them to come of disease. her hindquarters above the ground.

Need Extra Care

The shoes you choose for your children now, help to build strong, healthy feet when they grow u On the other hand, poorly fitted improper footwear can so deform children's feet that they are sure Then something happened to our to know the misery of foot troubles

> ing does more to spoil the foot than ill-fitting shoes. Even with the right fit, a young child may grow out of a size in a month. Until the age of fifteen, the average child grows out of a shoe size in anywhere from one

to six months.

Shoes should be about three-This is a must. Low-cut, laced oxfords are still the best-in looks and in construction. If you choose shoes with straps, the straps should be placed so they give the same kind of support around the instep that lacing would.



Is Future Determined Before Birth?

the same hopes and desires. It's

pathy that exists between pretty twin American singing sisters Mar-

parate diaries . . . until one day they compared them and discovered

ter that they saved their energies:

SPLITTING

3

RELIEVED IN A

JIFFY!

And the

RELIEF IS LASTING

For fast relief from headache get

Instantine. For prolonged relief get Instantine!

Yes, more people every day are

tes, more people every day are finding that Instantine is one thing to ease pain fast. For headache, for rheumatic pain, aches and pains of colds, for neuritic or neuralgic pain you can depend on Instantine to bring you quick comfort.

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Instantine is made like a prescription of three proven medical ingredients. A single tablet usually brings fast relief.

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CINNAMON BUNS

Measure into large bowl, 1 c.

ukewarm water, 2 tsps. granu-

lated sugar; stir until sugar

is dissolved. Sprinkle with 2

envelopes Fleischmann's Fast

Rising Dry Yeast. Let stand 10

min., THEN stir well. Scald 1 c

milk and stir in 1/2 c. granu sugar, 11/4 tsps. salt, 6 tbs. shorter

· No more taking chances with

perishable yeast cakes that have lost their leavening power! New Fleischmann's Fast DRY Yeast keeps full strength and active right till the moment you use it. Needs NO refrigeration—keeps safely

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INSTANTINE. For real relief go

HEADACHE

*kept one diary and wrote it up on

alternate days!

A woman buying a hat may spend an hour's agony of indecision over which of several suits her hest. Yet a Fatalist would argue

This would account for the bond of sympathy that exists between them. It explains why identical twins think and feel alike, have that all her anxiety is wasted; that her final selection is predestined ven before she enters the hat

That's also the Mohammedan's ian and Mary Wild, who kept sebelief. Whatever befalls him, good or bad, he attributes to fate—Kisprobat, he artificities that what they had written corresponded almost word for word. Afa fearless soldier, but a lazy work-er. For he fights on the theory that if a bullet "has his name on it," it might just as well find him a hero in the front rank as skulking in the rear. The same argument holds in his daily life. Why slave and toil when his destiny is already "in the bag"? If he is doom-ed to starve, then starve he will writes Deret Barat in "Tit-Bits." Scientists have long scoffed at such notions. Yet they are borne out remarkably from time to time by strange examples of "identical twins," whose lives have mysteri-ously followed an exactly similar course—although the individuals concerned may have been separated from birth, unaware even of each

other's existence. Edwin and Fred Nestor were identical twins, born in Nebraska but separa'ed as babies. Unknown to each other, they lived exactly similar lives. Both married girls of the same weight, coloring and height-and from the same town. They both became fathers of sons at the same age, and each followed the same career of electrical en But perhaps the most astonishing

and inexplicable factor of all i re-united as grown men (and even they each owned identical fox terrier pets-named-Trixie! One day a seventy-year-old carpenter was admitted to a Massa chusetts hospital with stomach trouble, later diagnosed as a dread disease. The surgeons noticed, in-

cidentally, that the old fellow's nose had been broken at some time in his life and that he had been operated on unsuccessfully for hernia.

ment? When two men, living separ-ate individual lives, follow such exactly similar paths from cradle to grave, one is led seriously to consider that perhaps all our des-tinies are determined at birth. It is, of course, only with identical twins that this theory can be

Nor must identical twins be confused with ordinary twins. They are far rarer, virtually "soul-mates" since they are born of the same germ cell which has divided, just as a single match might split, leav-ing two matches of identical wood. of identical twins of the same

FLEISCHMANNS

DRY YEAST

ACTS FAST! STAYS FRESH! Standard Brands United Mastreel - Teroofic - Winnipag - Vancourse

TABLE TALKS

Last week I Caristmas turkey and while it may seem a little early to be talking about the "leftovers," still I don't think you'll mind a couple of hints.

The day after Christmas perhaps

ou are wondering what to do with kftover turkey.

If you have some of the big pieces of turkey left, you may want to freeze them. The frozen pieces may be spread over several the of occasional eating. Be sure reeks of occasional eating. Be sure Dec. 25, 1951" and it will be better if used within three or four weeks . . .

When you've stripped the bones simmer them with a little onion celery, and seasonings for turkey When you've put away your tur

kev, you may want a meal of roas beef, pork, lamb, or veal for a change. Here is a recipe for a cranping for roasts. For beef pork, or ham, we combine orange with the cranberries. For lamb or real we combine mint with them. Some folks prepare a two or three-pound roast in the ususal way except that they do not salt a heavily as usual. They make the fol lowing toppings and allow them to stand one hour before putting over the hot roast for the last half hour

CRANBERRY-ORANGE TOPPING

1½ cups fresh cranberries 1 orange Wash, but do not peel, orange. Grind cranberries and orange and

add sugar. CRANBERRY-MINT TOPPING 11/2 cups fresh cranberries ½ glass mint jelly or 3 mint leaves 1/4 cup sugar Grind cranberries and if fresh

You may like golden brown, ho buttermilk rolls with your roast.

Here's a recipe that makes really ones: BUTTERMILK ROLLS

Dissolve yeast in 1/2 cup buttermilk and add this to remaining buttermilk. Sift dry ingredients to-If you like to look with pride at

carrots
1½ cups vinegar

The Hull You Say?—Well, you'd be wrong because John Heuss of an electrical appliance firm is not finishing off the bodies of miniature vessels. He's actually doing precision work on a group of hull-like units which will be fitted to the underbelly sections of hull-like units which will be fitted to the underbelly sections of F-84 Thunderjets. Called pylons, the units, used for carrying auxiliary fuel tanks, armament such as bombs, rockets, napalm tanks, can be jettisoned if necessary.

hot syrup over carrots, filling jars, Seal while hot. An icing for cake which is new

NOVEL CAKE FROSTING 1/2 cup condensed milk 1 cup sifted confectioners'

crushed Graham crackers as on

sugar 2 tablespoons cocoa 3/4 cup crushed Graham crackers 1 teaspoon vanilla

Mix all ingredients and spread over cake. Here's a recipe for Grapefruit Pie that's decidedly worth trying. GRAPEFRUIT MERINGUE PIE

1 cup sugar 5 tablespoons corn starch
½ teaspoon salt Grated rind of one lemon 11/2 cups boiling water 3 eggs, separated
½ tablespoon butter 3/4 cup grapefruit juice 1/4 cup lemon juice 1 baked 8-inch pie shell ½ teaspoon baking powder 6 tablespoons sugar

Combine sugar, corn starch, sal and grated lemon rind in top of double boiler. Add boiling water gradually and cook over flame, stir ring constantly until thick. Place over hot water and cook 10 minutes. Beat egg yolks slightly and add to mixture. Cook one minute. Remove from fire and add butter and fruit juices. Cool and pour into pie crust. Beat egg whites until frothy and add baking pow-der and beat until stiff. Cut and

If you've ever watched a toll

operator at work for 10 minutes you won't believe it. But if you

live in Englewood, New Jersey,

and want to talk to Aunt Mabel in

her on your own telephone. And

soon, they tell us, the automatic long-distance dialing being tested

in Englewood will be extended to

We've often been grateful for

we've often been grateful of the modern telephone system, es-pecially when living where writing a note often seemed easier—and quicker—than telephoning. Once we watched wonderingly while two

paragons of politest persistence successfully plotted to break

through or circumvent a traffic block

on the long lines to get our mes-

sage through. Maybe the system is

a national monopoly; maybe it has its faults. Even so, it's so much

And what if we call the wrong

number in San Francisco? Can it

straighten that out and make us

agents who raided a still arrested

three men and let eleven "drunks" go free. The latter were identified

as a sow and ten piglets which had

feel it really wasn't our fault?

Nashville, Tenn., Federal reve

most of North America.

fold the six tablespoons sugar into whites. Spread over pie and brown under broiler for one minute. Distance Dialing

mint leaves are used, grind them with the berries. If jelly is used, add to ground berries and then add sugar. San Francisco-or 10 other cities
-you can prove it. You can dial

1 yeast cake
2½ cups buttermilk
4 cups flour (more may be needed)
14 teaspoon each, soda and

baking powder teaspoon salt 3 tablespoons shortening 2 tablespoons sugar

gether. Cream the sugar and shorta national monopoly; maybe it has its faults. Even so, it's so much more efficient—and human—than the average state-owned system as to offer an object lesson in what private enterprise can do.

We suppose this mechanizing of the leafle is another step of pro-

your rows of canned vegetables and fruits that you have neatly placed orange carrots will be when added to the reds, greens and yellows already there. CARROT PICKLES

Fresh, medium-sized

1 cup sugar
Cinnamon sticks
1 teaspoon cardamom seeds Scrape carrots and cook i slightly salted water until firmly done. Drain. Pack while hot, lengthwise, in hot sterile jars. Make syrup of the vinegar (if it's strong,





Safety For The "Death Seat"—A new idea in auto safety is the "Safe-t-table," demonstrated above by Norm Nicholson When the car jerks to a sudden stop, the rubber-cushioned table springs out from the dashboard and prevents passenger from going through the windshield. Developed by an auto stylist, the table may also be used for writing, az map board or for lunch But, its main purpose is to cut the toll taken by the right-front "death seat," where seven out of 10 persons killed in auto accidents were riding.

Food That Heals

Colombia To Columbia — This six-week-old jaguar cub takes his first curious look after arriv-ing at the Philadelphia zoo from Colombia, South America He weighs only five pounds now,

strength of tissue in healing wounds under conditions of controlled diet have shown that certain sulphur compounds in food are necessary if wounds are to heal rapidly, says Dr. Martin B. Williamson of Loyola University. The compounds are sulphur amino acids, which occur in the proteins of eggs, milk, wheat, corn and some other foods. The "healing index" — a number which expresses the rate of healing as measured in Dr. Williamson's remeasured in Dr. Williamson's re-search—is much greater on high than on low-protein diets in ex-perimental animals. The high-pro-tein diet gives this higher index because more sulphur amino acid

but after three years of stuffing himself with American chow he's expected to worry the scales up to 200 pounds. Quite a food jag-uar. New and Useful

.. Too ..

We suppose this mechanizing of toll calls is another step of progress. We understand it is going to cut time in completing calls, and that the machinery can even choose the clearest among alternative routes. It's also supposed to bill us automatically. Still, we have some questions. How does it know when Aunt Mabel has actually finished talking? If she isn't there, will it call us back in 20 minutes? And what if we call the wrong For both home and industrial users, applicator and abrasive are combined into one convenient unit.

metals glass and porcelain are it main uses, while in industry it aids in the finishing of metal hardware and the buffing and polishing of optical lenses.

Big Toe Broiler Got cold feet? New warmer heats your toes up to 100 degrees Fahrenheit. Working on principle used for de-icing of aircraft surfaces, it will be produced in a wide variety of colors; can be plugged into ordinary outlet. * * *

TV Color Screen A three-color plastic screen, flesh tone sepia in the centre, and hand-painted with blue band on top, green strip along the bottom, fits television screens from 10 to 20 inches. Resultant effect is claimed restful to the eye, since each color gradually grades into the other. No special tools required for ap-

When a pretty Greeley, Colo., housewife was undressing for bed housewife was undressing for bed she saw two gleaming eyes behind a mask staring through the glass of her front door. She screamed and her husband summoned police, who arrested the peeper — a raccoon perched on a crossbar of the screen door.



is available for building new tissue. In Denmark ornithologist Holger Poulsen announced that birds do not sing from happiness or mating impulses but through a "hormonal process activated by light."

Suez Canal-"Dream Of The Centuries Changed The Map Of The World

Kipling may be responsible for the popular notion that the Suez Canal is the dividing line between East and West. As a matter of fact, the Moslem World extends far out from both sides of the canal and the great Afrasian desert sweeps on from Egypt to the Arabian peninsula and to Central Asia. In the compact little world of the Greeks, Egypt was a part of Asia and all the desert to the west was Libya. Africa only came in with the Romans. The boundary between Asia and Africa, in spite of the canal, has remained as insignificant as the boundary between Europe and Asia, where the low Ural Mountains cut across but do not alter the Eurasian plain, and the great Slav power has long been in undisputed control of all the lands on both sides of the chain of hills. of hills.

Canal eighty-two years ago this month had a strong appeal to the imagination of Europeans. The severing of the continents of Asia and Africa at Suez, like the later and Africa at Suez, like the tasks and greater splitting of North and South America at Panama, was a triumph of man over a hostile environment. The event was fittingly celebrated. As it was a French enthe list of distinguished guests. The Emperor of Austria came, the Crown Prince of Prussia, Grand Duke Michael of Russia, Prince Duke Michael of Russia, Prince
Henry of the Netherlands and hundreds of less exalted persons. Khedive Ismail of Egypt paid the expense of the guests from and back to Europe and all the bills for the stay in Egypt. When he heard that Empress Eugénie would like to

The British, who are now re-solved to defead the canal at any

In undisputed control of all the lands on both sides of the chain of hills.

Yet the opening of the Suez Canal eighty-two years ago this control of the suez Canal eighty-two years ago this control of the suez Canal eighty-two years ago this control of the suez canal has been told again in a new life of Benjamin Disraeli by Hesketh Pearson. "Dizzy" borrowed £4,000,000 on his own responsibility to clinch the deal for the Khedive's share and let Parliament approve the purchase later. It was less extra-constitutional than another famous canal acquisition—
the Panama Canal case — where
President Theodore Roosevelt said
he "took" the Canal Zone and let

Congress argue about it afterward. stay in Egypt. When he heard that Empress Eugénie would like to visit the pyramids of Giza while she was in Egypt, he set ten thousand peasants to work to build a road seven miles long, from Cairo to the pyramids. The Suez celebration on this lavish scale hastened the bankruptcy of the Khedive, the sale of his shares in the canal and the eventual occupation of Egypt by the British says a writer in The New York Times.

The British, who are now re-Magellan for the great canal at Panama.

solved to defead the canal at any eost, were not interested when the canal was first proposed. Lord Palmerston, the Foreign Secretary, thinking of Napoleon's Egyptian adventure of 1798, looked upon the daring enterprise as another French scheme to get a hold on Egypt. He had a strange idea, too, that use of the canal might disturb established trade relations. So the British Government declined the shares offered to it and even

Plants Grow Better Under Artificial Light

artificial lighting to increase food

By DOUGLAS LARSEN

In a brilliantly lighted basement room of the Department of Agri-culture's research laboratories at Beltsville, scientists are getting closer to the elusive secret of life itself

For the first time in the history Lightweight Chain Saw

Lightweight chain saw, for one

Lightweight chain saw, for one

Lightweight Chain Saw

And the first time and the control of agricultural research they are able to measure the exact effect

in operation a few months, it has already been used to help start development of a brand new vari-Offered in a choice of sizes, the polishing units are made of cotton In fact, use of the room for de-Offered in a choice of sizes, the polishing units are made of cotton — impregnated with any one of a variety of polishing, buffing, or other compounds — then machine-rolled in cellulose tissue with both ends exposed for use. In the home, cleaning and polishing of polishing of the polishing one of a variety of polishing the polishing of the poli

It also could be a factor in revolutionizing the world's food production if it helps in providing the answers about plants which Borthwick and Parker are seeking.

The room is 20 feet long, 10 feet wide and 7½ feet high. Its vital feeture, the lighting equipment, was feature, the lighting equipment, was developed and installed by General Electric engineers. Eighty-eight plemented with 24 60-watt incandes cent lamps, provide the illumination. The lamps are the same as those

used in your home. The fluorescent and incandesce lamps provide all the light nour-ishment with none of the harmful elements of sunlight—which plants need for growing. They give an illumination level of over 2,000 foot candles, which is more than 40 times the level prevailing in modern stores and offices. The thing that makes the Belts-ville installation unique is a simple method of stepping up current cycle for the lamps, plus an automatic

plying screen. means of keeping the light intensity continually fixed.

Research being done in the controlled environment room by Borth-wick and Parker will supplement work of a similar, highly practical nature already under way. Theirs is basic research aimed at answering all the questions of the effect of light on plant life. The other

work is aimed at specific problems in the field.

In Hawaii, for instance, tests are under way to determine whether light can be used to increase the sugar crop there. It is believed that if a cane field can be lighted for a short time during the night it will keep the cane from forming a flower at the end, at which stage it ceases to grow sugar in the stalk.

ceases to grow sugar in the stalk.
Finding out just exactly how practical application, in addition to much light a cane field needs, and its use as a tool in basic agriculture what light conditions might exist

help Borthwick and Parker achieve production. However, in Florida as one small example, artificial light used at night could be used to help



By The Light of the incandescent lamps, this Agriculture Department research worker tends some test plants. Under artificia light, the vegeta'ion sometimes does better than under sunlight