Medford Prices

Cord Tires

30x3½	$2.98
30x3½ Oversize	$3.98
31x4	$5.98
32x4	$6.48
33x4	$6.98

Window Shades, linen — 39c each

Wash Boilers — 98c

Bed Blankets, — 98c each

140 lb. Bag Salt — 98c

Guaranteed 18 months — Allow $1.00 for Old One

Auto Batteries — $9.98

Piedmont — Camel — Chesterfield Cigarettes

2 Large Boxes 25c — **Carton $1.15**

100-lb.

Granulated Sugar — $5.98

1¼-inch Corrugated

Galvanized Roofing — $3.98 SQUARE

In 100-lb. Bags — Per Bag

Bran — $2.15 bag

Floortex — 2 yards wide — Per Square Yard

Floor Covering — 29c

For Use in Tractors, Engines or Lamps and Stoves

Coal Oil — per gal. — 10c

Small lots 11c Gallon. — Drum Lots

Gasoline — 17c gal.

Less 4c State Tax 13c Gallon

Nice Light Color Table — Gallon Can

Syrup — 49c

Fresh Baked Soda — 3 lbs. for

Crackers — 39c

Clark's O. N. T. Spool — Per Spool

Cotton — 3½c

200-acre Farm for Rent

Brooms — 29c

Auto Tubes — 69c

High Grade — Gallon

Ajax Auto Oil — 29c

2-lbs. Chocolate Drops, Caramels, Mixed Drops, Molasses Kisses, Peanut Brittle — **for 25c**

A C Spark Plugs — 33c each

Ford Radiators — $7.98 each

4 Boxes Kellogg's Flakes — 29c

Post Toasties, 4 boxes for — 29c

Cottonseed Meal, — $2.45 bag

Auto Chains

30x3½	$1.79 set
29x4.40	$1.98 set
30x5	$5.75 Set
31x4	$2.25 set
32x4	$2.39 set

3 lbs. Walnuts for — 25c

Milk Cans — 7 gallon — $2.98

Canvas Leggins — 11c pair

The Medford Grocery Co.,

Medford, Maryland.

POULTRY

FIRST WEEK IS CHICK'S CHANCE

The first seven days are the hardest a baby chick has to live. It is during this week that careful feeding and close attention to brooding and temperatures are especially important.

Many poultrymen feed their chicks too young. A few make the mistake of waiting too long to give them their first feed. The proper time is between 48 and 60 hours after hatching, says J. G. Halpin, poultry specialist at the Wisconsin College of Agriculture. A chick ration, developed by poultry specialists at the college farm and used by thousands of poultrymen in Wisconsin and the Middle West, consists of 80 pounds ground yellow corn, 20 pounds wheat middlings, 5 pounds each of raw bone meal and chick-size oyster shell, and one pound of salt with skim milk to drink and plenty of sunlight.

This ration may be used as the first feed and continued until the chicks are several weeks old, says the specialist, who emphasizes that all ingredients must be of the highest quality. Using musty or moldy feed invites disaster to the brood and the same is true of the litter on the brooder floor.

Close brooding and high temperatures also take their toll. The chicks will thrive better if given an opportunity to run about in the sun and kept at a slightly lower temperature during the day. He cautions against letting the temperature fall too low, which may cause crowding and smothering of the weaker chicks.

This attention should be carried through the following weeks, too. The chicks, after coming safely through the first week, must be kept growing every day if they are to return their owners the biggest profit.

Grains Are Essential in Any Feeding Plan

Farm-grown grains, corn, wheat and oats are good feeds and are essential in almost any feeding plan but unless a good mash is also fed, they will do little more than maintain the life of the bird. Most state experiment stations have worked out formulas for mashes that may be home mixed, also numerous concerns are manufacturing prepared mashes. Either the home-mixed or commercial mash will give good results when fed as directed. They do not direct, however, that a little be fed today and some more next week, but tell you to keep it before the birds at all times. No one should expect one sack of mash to go very far in feeding 50 or 100 birds, any more than they would expect one feather to make a feather bed.

Give Chicks Chance

Taking the first hatched chicks away after they have become dry and fluffy may prevent the hen from leaving the nest with them before all the hatchable eggs are hatched. This is the chief advantage; they are not likely to be killed by the mother hen. Accidents in the nest do occur, of course, but, in consideration of possibilities, they are few. If chicks are taken away, they should be kept in a warm place in a covered basket and, when returned, given to the hen at night.

Poultry Hints

Comfort and contentment are necessary if hens are expected to lay well

• • •

From the hens' standpoint, the house that is dry, wind-proof, light, bright and clean is most satisfactory.

• • •

Milk and water are not interchangeable, and milk is a real food for protein building when hens require it most.

• • •

The newly hatched turkey is a weak little creature and must have the best of care. It is said that only about 50 per cent of the turkeys hatched ever grow to maturity

• • •

Profit made on a flock of poultry depends not on the cost of the house in which they are kept but upon the kind of house.

• • •

The turkey hen can hover about 14 eggs. If more are given she is liable to let them chill, as her body cannot keep them warm enough to incubate

• • •

Water forms a large part of the ingredients of the egg, and if the hen has not everything that goes into the manufacture of an egg, her body will, of course, refuse to produce one.

• • •

When one gives baby chicks all the milk they will drink it is not advisable to put any meat scraps in the ration. If no milk is given to them tion a combination of meat scraps and dried milk would be all right.

• • •

Doctoring roup is not very satisfactory. Probably the best treatment is a dose of epsom salts, one-half pound to 100 grown birds, in the drinking water. Afterwards put enough potassium permanganate in the drinking water to give it a wine color.

RADIO

Resistances Vary With Temperature

Why Certain Length of Wire Will Show Variation as Current Flows.

Many fans cannot understand how an all wire-wound resistance can vary with temperature. They do not grasp how a certain length of wire possessing a known value of resistance will show a variation while current is flowing through the wire.

To comprehend this phenomena certain actions must be visualized. The first is the molecular construction of the wire. It is not necessary that one know the exact position of the molecules—simply imagine any definite structure.

Now, this formation of molecules results in the wire possessing a certain value of resistance per inch, foot or mile of wire. If the molecular structure of the wire is altered, the resistance for that inch, foot or mile of wire is changed. The more the structure is varied, the greater the change in resistance. When current is caused to pass through wire the action of the current is to heat the wire, the heat generated being dependant upon the amount of current flow. The action of the current not only heats the wire, but, in heating it, it changes the molecular formation with the result that the resistance of the wire changes.

It must be understood, however, that the molecular structure is not always altered by the heat generated in the wire. That is the elements comprising the wire may have such molecular formation that within certain limits of heat, these formations will not change appreciably, with the result that the resistance of the wire does not change with increase in temperature. Such a wire is said to possess negligible temperature coefficient and the resistance remains practically constant over a certain range of applied watts. Such resistances are best suited in battery eliminators and electrified receivers where constant resistance is necessary under various loads.

Volume Control Now Must Have Attention

Times change. Several years ago the main thing was how to obtain volume, irrespective of tone quality. Today most sets are capable of producing more than ample volume, so that the main aim is to cut down the volume when desired, without sacrificing tone quality.

The values of inductances are usually quite critical, so that any change in the inductance of one circuit may unbalance the receiver and result in distortion. For this reason, therefore, the volume control should be of the non-inductive type, so that there will be no change in inductance value as the result of a change in resistance.

The cardinal principle in controlling loud-speaker volume, aside from the use of a noninductive resistance, is to begin as soon as possible in the receiving process. In other words, the nearer the antenna end that the control is put into effect, the better the results and the simpler the control, and vice-versa, the nearer the loud-speaker end, the more energy must be handled by the variable resistance and the more likelihood of distortion.

The simplest volume control is a variable high resistance in the antenna lead, which serves to cut down the signal energy, and is of real value, especially when intercepting powerful local stations. Sometimes the variable high resistance may be shunted across the antenna and ground binding posts of the set. At any rate, with a suitable noninductive variable resister, such as the standard type clarostat or the clarostat volume control, a simple and undistorted volume control is obtained for any receiver. The resistance range must be from practically zero to several million ohms in the case of the resistor placed in the antenna lead, which appears to be the better of the two arrangements.

Determining Polarity Explained by Engineers

Two simple methods of determining battery or power supply polarity are given by Fada radio engineers. In most technical discussions of the subject the salt water test is mentioned, but the "potato test" is not generally referred to. Because of the coming of the power units into general use this information is important

Polarity is in the differentiating between the positive and negative poles.

The potato test is as follows:

Slice an ordinary potato in halves and insert two bare wires about half an inch into the raw potato about an inch apart. The negative wire will discolor the potato, the positive will not.

The salt water test is one of the usual methods of determining polarity and is very easy. Make a saturated solution of salt water with the ordinary table salt in a drinking glass. Insert in the fluid the bare ends of the two wires about an inch apart. The current flowing between the two will set up the action known as electrolysis and bubbles will rise from the negative wire.

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The people are urged to cultivate will power, but what many need is more bill power so they can clean up those old accounts they owe.

The lead pencil consumption of the United States should take a sudden jump while the income returns are being made out.

The women folks believe in sex equality, and if so the girls might not study quite so hard in school so the boys can keep up with them.

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