

# FOR BETTER ROADS

## GREAT ROAD BUILDING YEAR

Thousands of Miles of Improvement Arranged and More Will Surely Follow.

From the passage of the federal aid road act to December 15, 1918, 755 projects were approved by the secretary of agriculture. These projects involve the improvement of 7,867 miles of public roads at a total estimated cost of \$57,032,000, of which the federal government has been requested to contribute \$21,602,000. There have been actually completed to date twelve projects, involving a total of fifty-one miles of road, costing approximately \$817,548, and on which federal aid in the amount of \$220,690.19 was paid.

Altogether there are more than 7,500 miles of road, for which most of the steps preliminary to construction have been taken so far as the bureau of public roads is concerned. Numerous other projects not yet reported to the department have been completed or are under construction, so that the sum total of the road work now in progress under federal aid is greater than appears in this summary.

From Florida to Maine, through the North to the Pacific coast and down to Mexico road building work is going on. Every state has accepted its contribution from the government and while no organized effort has been made along those lines to the present time, the states are working gradually to the system of national highways.

Coupled with plans already outlined for expenditures on the roads is the legislative program now before congress, which provides for \$500,000,000 to be expended over a period of seven years by federal aid. It is estimated that in the event of the passage of this bill, which would



Well-Drained Road.

make available immediately \$75,000,000 for use in federal aid, it would be possible to build 34,000 miles of highways this year if labor could be obtained.

## VALUE OF POULTRY MANURE

Increased Supply of Fresh Vegetable May Be Obtained By Applying to Garden Soil.

The droppings from fowls, if carefully saved and applied to the garden soil, will increase the supply of fresh vegetables. Poultry manure is rich in nitrogen and is well worth the effort it requires to save and apply. The droppings from an average farm flock will amount to considerable fertility during the year.

## AUTO TAXES TO GO TO ROADS

Committee Appointed in Alabama to Request License Fees Be Applied to Highways.

The Birmingham (Ala.) Automobile club has appointed a legislative committee which is to appear before the state legislature with the request that all automobile license fees and taxes be applied on the cost of improved roads in the state. The funds thus diverted would amount to \$1,600,000 annually.

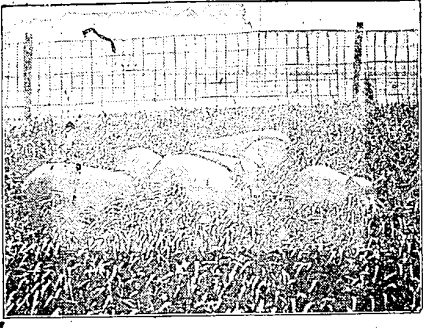
## Slow in Road Building

With all her development, America has always been slow in the matter of road building.

Phosphorus Needed. It is now generally agreed by experiment station professors and practical farmers in our eastern states that the greatest fertilizer needed by our soils is phosphorus, and that the best method of supplying it is in the form of acid phosphate.

Great Need of Farmer. If there is any one thing that the farmer needs more than another, it is good highways. Every other business is on the line of progress, or why not the road business?

## PIGS OF ANY AGE THRIVE ON SPRING-SEEDED FORAGE CROPS AND PASTURES



Cereal Crops Furnish Good Pasture for Pigs in Early Spring.

(Prepared by the United States Department of Agriculture.) To make hog production most profitable, pasture should be provided whenever possible. The earlier in the year green feed can be supplied the better. Pigs of any age relish green feed, and its use reduces the cost of producing gains. In addition, it keeps the animals in good, thrifty condition.

Temporary pastures, such as the cereals, are best utilized in the early spring, and forage crops such as corn, soy beans, cowpeas and, in the South, velvet beans, furnish fall grazing. In the late spring and summer there is a season during which few temporary pastures are available, with the exception of rape. At that time permanent pastures, such as alfalfa, the clovers, bluegrass, Bermuda, and a number of others, have their greatest use. They do not furnish grazing as early in the spring as do the cereals previously mentioned, but they grow better during late spring and summer and afford an abundance of forage at a season when few other pastures are ready to graze.

Value of Permanent Pastures. Permanent pastures require a minimum of attention and care. They make the cheapest forage, as it is dry lot necessary to plow and replant each year. If not too heavily grazed they may be carried over from one season to the next and increase in value each year. Only a little supplement need be fed to obtain a normal growth of the pigs.

One of the chief advantages of the permanent pasture is its long growing season. Growth continues from spring until fall, and the forage is palatable and nutritious at almost any time. Either a few hogs may be grazed during the whole season, or after the pasture has made considerable growth a large number may be pastured for a

short time with practically equal results in the amount of pork produced to the acre. This shows that a permanent pasture is adapted to a variety of conditions. It takes the place of a reserve forage crop, being called upon to furnish grazing at any time of the year when other pastures fail or are exhausted.

Feed Grains With Pasture. Although pasture reduces the amount of grain needed to bring pigs to a profitable weight and prepare them for market, it does not furnish a complete food. A sufficient quantity of roughage cannot be consumed and digested to supply all the nutrients required for rapid growth. The forage, especially from leguminous pastures, furnishes a cheap source of protein, supplies ash for bone making, adds bulk to the ration, acts as a mild laxative and tonic, and keeps the hog's system in condition to utilize profitably the concentrated feeds. Even with the present high prices of grain it pays better not to cut the grain ration more than half, feeding at the rate of two pounds daily for 100 pounds live weight to pigs on pasture instead of the usual four to five pounds when they are in a dry lot. Pigs that are fed grain while on pasture will gain a pound or more a day from weaning to a weight of 200 to 250 pounds, while those getting little or no grain will gain but one-half to three-quarter pound a day.

This will bring pigs to a marketable weight early in fall. A grain ration, then, reduces the time of feeding, the cost, interest on the investment, and produces a higher condition with a finer and more palatable meat and fat. Light, steady grain feeding on pasture gives better results than does a heavy ration during a shorter finishing period.

## PUMPKINS SUPERIOR AS FEED FOR STOCK

Have High Value for Succulence When Fed With Roughage.

Impression of Some Feeders That Seeds Have Tendency to Decrease. Milk Flow Is Fallacy—Most Excellent for Pigs.

Pumpkins, coming as they do at a time of the year when grass begins to fall and before grain feeding is commenced, cannot be exceeded as a feed for cattle. They have practically the same composition as different roots, and their feeding value for any kind of stock is practically the same.

Analysis shows that one ton of clover hay has as much feeding value as seven tons of pumpkins. When, however, pumpkins are fed in connection with clover hay or other like roughage they have an account of their succulence a greater feeding value than the analysis indicates. A succulent feed added to the ration always enables animals to digest and assimilate a little more dry matter.

Some feeders have the impression that seeds should be removed from pumpkins before feeding to dairy cows, as they believe the seeds have a tendency to decrease the flow of milk. There is no well-grounded foundation for this belief, as tests have proved. When pumpkins are fed in excess the seeds act injuriously on the kidneys, but where fed in moderation no injurious results need be feared. One to two medium-sized pumpkins at a time twice a day is sufficient for each cow.

The greatest value obtained from the pumpkins fed to hogs in connection with corn comes from the corrective influence exercised on the digestion. They have a cooling influence on the system and keep the pig's stomach and bowels in perfect condition. The animals are thus less subject to different ailments. Since pumpkin seeds are exceedingly rich in protein too many should not be given to the hogs. Pumpkin seeds are a natural vermifuge and in limited quantities are valuable for hogs affected with worms.

For Planting Garden Peas. Plant peas in garden peas in rows three feet wide and cover to a depth of five or six inches. The smooth varieties are best for early planting, as they are harder than the wrinkled type. Good varieties are Alaska, extra early, and first and best.

## IMPROVED UNIFORM INTERNATIONAL SUNDAY SCHOOL LESSON

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### LESSON FOR MARCH 30

#### REVIEW. GOD'S HAND IN A NATION'S LIFE

SELECTION FOR READING—John 4:16-23. GOLDEN TEXT—Righteousness exalteth a nation, but sin is a reproach to any people.—Proverbs 14:3. PRIMARY TOPIC—How God led the people of Israel 7:20. JUNIOR TOPIC—Recognizing God's leading. INTERMEDIATE TOPIC—Evidences of God's guidance.

Since Israel was a theocratic nation, perhaps the best method of review will be to trace God's hand in that nation's life. Israel was led, fed, clothed and disciplined by God.

Lesson I. God's hand is clearly discernible in the experiences of Israel in Egypt. Israel was to be the religious teacher of the world, therefore the nation must seek the highest and the most advanced in learning of any nation at that time. In order that Moses the great lawgiver might be equipped with the best possible education God used Pharaoh to oppress the people. This oppression served a threefold purpose: (1) It served the testimony to the Egyptian nation that the living God was the God of Israel. The more they oppressed them, the more they multiplied. (2) It served a beneficent purpose in bringing the nation into its own. It required the crucible of suffering to bring humanity into its own. (3) It made the nation willing to leave Egypt and go to Canaan, the promised land. Had not the hand of oppression been upon them they would have chosen to remain in Goshen.

Lesson II. When Israel was ready to lead in Canaan God sent a leader ready for the difficult task. His parentage, education at his mother's knee and at Pharaoh's court, and communication with God in the desert of Midian had equipped him for the work.

Lesson III. Though enslaved by a powerful nation, God understood freedom for Israel, and by ten telling strokes—the plagues—he tore the shackles from their hands and set them free. The Passover is a memorial of that blessed deliverance.

Lesson IV. God opened the Red sea and made a path of safety for Israel to cross, he overthrew Pharaoh and his hosts in the sea.

Lesson V. Israel bitterly complained when they faced the wilderness without food. God sent them manna and quails. The manna did not fall them until they came into Canaan.

Lesson VI. God sent Jethro to give needed counsel to Moses. The strength of Moses was about to break. God took one outside of the commonwealth of Israel and through him communicated the wisdom which Moses needed to save him from collapse through overwork.

Lesson VII. At Sinai Israel is organized into a nation and the ten commandments are given as their constitution. In this constitution is clearly set forth man's duty to God and his obligation to his fellow men.

Lesson VIII. Gold man is seen in his burning anger against the nation for turning away from him to worship the golden calf. He is a jealous God; he will not tolerate a rival.

Lesson IX. Through unbelief the spies are sent to search out Canaan. When they were urged to take possession of the land according to God's promise they rebelled. Because of this failure God caused them to wander in the wilderness for 40 years.

Lesson X. When God's disciplinary measures had run their course the people were back again upon the borders of Canaan. Joshua was chosen by God to lead the people, as Moses' time to depart had come.

Lesson XI. In the cities of refuge God provided that revenge should not take the place of justice. Lesson XII. Before Joshua's death God through him set forth the conditions upon which the nation's welfare could be maintained, namely, whole hearted obedience to God and separation from their wicked neighbors.

A Prayer. Our Father, we beseech thee that thou hast not wanted to be asked but knowing our need, hast permitted us in thy great mercy, to make our requests known unto thee, as well as our affection and joy in thee, so we pray thee for the things that are requisite and necessary. Thou knowest what things we have need of before we ask thee, but thou hast hidden us ask thee because thou delightest in our consciousness of dependence upon thee, and wouldst have us feel our needs that we may be led to receive their supply. Through Jesus Christ, our Lord. Amen.

Sphere of His Holiness. In this sphere of his mercy and wrath, tenderness and severity, is so beautiful, what shall be the splendor of the sphere of his holiness? What the glory of His presence, change judged by the excellence of this distant boundary lodge?

Going to Church. We cannot like advantages of the church without going to church, any more than we could take advantage of a week-day school, without going to classes each day.

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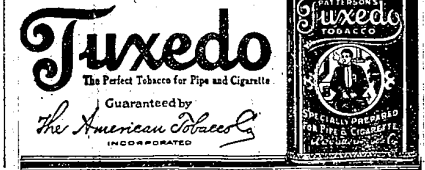
Not Overly Pleased. "I don't know that I'm particularly pleased with the fact that women can vote." "You're not, 'eh'?" "The wife insists on knowing whom I intend voting for." "Well, what of that?" "I find it's just another cause for an argument." They Do Say That. "He works like a dog,"—but dogs don't drink. "He drinks like a fish,"—but fishes don't drink. "He lies like a lawyer,"—but lawyers don't—eh? What's that?—Portland Evening Express. Paradoxical. "What's all that noise in the mountains?" "Hush! It's a still!" Many a pair of wings in January become horns along about July.

## A Dash — of Chocolate



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