SPLENDID DESIGN FOR HORSE BARN

Scientifically Planned and Contains Modern Equipment.

AMPORTANT ASSET FOR FARM

struction and Gives Ample Space for Hay Mow—Has Twelve Stalls and Two Box Stalls.

By WILLIAM A. RADFORD.

Tr. William A. Radford will assuce
settlons and give advice FREE OF
ST on all subjects pertaining to the
spect of building work on the farm, for
readers of this paper. On account of
mendacturer, he is, without doubt, the
sheat authority on all these subjects.

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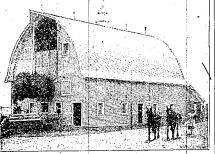
of providing effective protection against this tremendous loss should not be minimized. A ventilator pro-vides a supplemental source of fresh air for the stalls below.

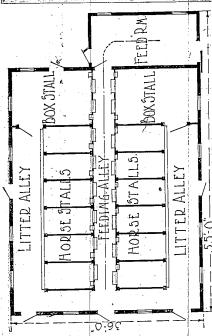
vides a supplemental source of freeh air for the stalls below.

The barn is of rame construction set on a concert foundation. It is 38 feet wide and 55 feet long, not givery large building. The stall floor is well lighted and ventilated by pheoty of windows and doors, and colinians 12 individual shalls and two large box stalls. The stalls are built in two rows facing in, with feed alley contains the containing between, and litter alleys at the rear of each row. These alleys are equipped with special carrier track for hauling feed, and litter carriers. The feed-carrier track runs from the feed room at one cod of the hart to each stall, thus clinating much of the heavy work which has been curronnay in heavy work which has been curronnay in heavy work within the work costs the help aind tends to keep them satisfied.

Wille many farms do not require

twentions and give acrice FREE of the Morris and the subjects pertaining to the subjects of building work on the fairs, for the readers of this paper. On account of this work experience as Editor, Author and highest authority on all these subjects. Address all inauties to William A. [Rad-Art, No. 187. Perairie avenue, Chéans, IL. and only inclose two-cent atamp for perairies. The cities are inclined to think that there has no "such adjuncts and proceed by coverlook the fact that there's are inclined to think that there has no "such adjuncts and proceed by coverlook the fact that there's are inclined to think that there has no "such adjuncts and proceed by coverlook the fact that there's are inclined to the present the such perairies and gloot crucks. The hot stalls can be considered by coverlook the fact that there's are still many a nations plans and cow persons the process of the modern and progressive farm.





rying many of the burdens find is still er who is trying to make farm live coundered one of the assets of that institution. In many cases the institution. In many cases the horses are housed in a combination or general utility hafm, that is, a building having accommodations for both horses and cattle. However, where the number of horses is large enough, as separate barn is very often built. There are certain important considerations which should not be overtooked in the construction and paining of a horse barn.

In the first place ample space must be provided for the storage of builty feed of which phorses consume large from the storage of the construction. By this are more hardward, and bed for the storage of this feed in the first place and the storage of the construction in the first place and provided the storage of the first place and the first plac

REVENUE FOR ROAD BUILDING

Registration and License Fees in 1920 Amounted to \$102,034,106 — Increase in Cars.

Amountee to receive in Cara.

[Propared by the United States Departing the first of Aericulture.]

A total of 0.211.275 motorcars, including containered in vehicles, were registered hart year to the i8 states and District of Columbia, according to figures compiled by the bureau of public roads of the United States Department of Agriculture in a study of revenue available for road-building purposes. There were also registered a total of 283,146 motorcycles. The registration and license fees, including those for chauffents, operators and dealers, amounted to \$102.034,106.25. As compared with 1919, the data for 1920 represent an increase of 22 per cent, or 1,455,539 aforterars. This increase alone lacks but 4 per cent of being equal to the total registrations of the United States six years ago.

In 1202, join the state of New York alone the sunder of motorcies registered, including commercial vehicles.



Improved Roads Facilitate the Deliv-ery of Mail to the Farmer.

cceeded the total cars registered in exceeded the total cars registered in the whole of the United States in 1910. Furthermore, the revenues derived-from registration in the state of New York in 1920 were about equal to the entire registration revenues of the United States for 1913.

entite recistration revenues of the United States for 1018. In 1990, the state of the United States for 1018. In 1990, the total registrations were approximately \$4,500 cars, paying a gross revenue of ab, it \$103,000. (Arizona in 1920 paid apprixamately \$4,500 cars, paying a gross revenue of ab, it \$103,000. (Arizona in 1920 paid apprixamately this amount.) In 1906 the priys registration revenues were equal to jest stam three-tenths of 1 per cent of the total rural road and bridge expenditures for that year. The registration revenues in 1920 were equal to aphone to the total rural road and bridge expenditures for the calcular year 1919. In 1906 practically none of the motor-related revenues was applied to road mainfembace or construction, while in 1920 00 per cent, or a total of \$07,007, 190,00. was used for this purpose. The remaining 4 per cent total applied to road work was expended very largely for number plates and in carrying out the provisions of the motor retex. Of the total amount applied to road work 70 per cent, or \$17,531,825.57, was expended under the control or supervision of the several state high-way departments.

FARMER AND GOOD HIGHWAYS

FARMER AND GOOD HIGHWAYS
Improved Roads Make Farm Only a
Suburb and Land Has Increased
Greatly in Value.

The highest hoosier for good roads
In the cointry today is the farmer.
A few years ago he fest that the portion of his taxes used in the construction of permanent highways represented a benefit only to the motoring
tourst and the city automobile owner.
The farmer argued that he was paying for their pleasures, and the result
was a superstition against the good
roads movement, which unfortunately,
has not as yet been entirely overcome
in some sections of the country.
Now, however the
the country.
Now, however the
the interchander for which
he has telephoned in the morting can
be delivered by mono of the same day;
when the mythet for his own produce
to brought hours nearer; when the
winter and its following spring thaw
pussess no jerrors for him—all this
because of the improved highway
which maked, his farm only a suburb,
as it were, of the hearest city—he
naturally geomes a hard-working
and hard-adding enthuslast for good
rouds—lessites.

HIGHWAY COSTS ARE HIGHER

HIGHWAY COSTS ARE HIGHER

Expense of R.ad Construction in 1920 Twice of Much as in 1917, According to Expert.

Every kind of road cost about twice as much to build in 1920 as it did in 1917, according to the chief of the bu-reau of public roads, United States Department of agriculture, and high construction suffered more than other class of work through rails congestion, strikes, labor troubles material shortages.

DAIRY HINTS

MILK RECORDS AID DAIRYMAN

Both Prefitable and Fracticable Know for Certainty the Full Value of Covis.

Prepared by the United States Department of Agriculture)
Reports coming to the United States
Department of Agriculture often intiolde stories of the surprives which
cow owners meet with when they start
keeping records of their cow's production. For Instance, in a Yissouri Couteeting association there were the
the owner of the Country of the Country
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herd; but among his cows was a crip-pled, ten-year-old Jersey named Goldie. Old Goldie led the whole aspled. ion-verrold Jersey Intended Goldie. Old Goldie to the whole association, with an annual production of approximately 9,300 points of milk and C20 pounds of fat, and an income over cost of feed amounting in \$207. In spite of the fact their when the test started she had a ready gone three months since free; early, and there months since free; early. The musting part of Goldie years of the control of the c

now nearly 500 associations in various

throughout the country, and diere are now nearly 500 associations in various states. The man who joins a cow design association never runs the risk of selling association never runs the risk of selling as \$200 mills producer for, \$50 because her appearance is poor, for d wasting his feeds with an advertise of the result of the result; but the result of the result; but the result of the result; but the result of the res herd of cows knows exactly was one has given, what she has and how much income over co feed she has brought him.

HELP DEVELOPME IT OF CALF

To Keep Them Growing Rapidly Furnish Plenty of God Hay—It
Aids Digestive lystem.

Aug Digestive 'lystem.

The important thin is to keep the cardes growing as ra', lyn as possible and to see that they is the provided with pienty of good hap. It is more than my other one feed. It help develop the caff's digestive sy, each and should, therefore, never the carden with the provided wi

SILO INSURES NEEDED FEED

Good Silage Made of Corn Cr Planted Too Late 1, Reach Most Desirable Miturity.

A silo is an insurance. Very often the season is so late that the core roop cannot be planted in time to get fully matured. Corb can be planted as late as July 1 and yet make good slinge.

Feed Cows a Variety
A dairy cow should have plenty to
ent of a combination of feeds, so balanced as to meet the requirements of
milk production and body
maintenance.

Balanced Ration for Cows.

It is not injurious o feed a cow properly balanced rition in propertie to the milk she gf k. Usually thresults from underf ling are a great deal worse than ov feeding.

POPULAR GRAINS FOR FARM FLOCK

Corn Heads Long List Because of Abundance and Is Most Relished by Fowls.

WHEAT REGARDED AS SAFEST

Most Satisfactory Results Obtained When Meat, Bone, Brari and Oth-er Nitrogenous Feeds Are Also Supplied.

Prepared by the United States Department of Agriculture.)
Of all grain feeds usually supplied to farm poutry, corn has been, and still is, the most popular. This probably is due to its abundance and relative cheapness, and because it is the most relished of all the grains. Corn is beating and fattening, and when feed to fowls as the only feed, fur traiter than eggs is the usual result it.

most censined of an time graines, dornite beating and attenting, and when feet to fowls as the only feed, fut rather than the season of the se

"Burnt whent" seldon can be fed advantageously, the difference in price between this and good wheat being usually too slight to warrant its account of the control of the c



lent for producing eggs, but are usually too expensive. When they can be lent for producing eggs, but are usual-ly too expensive. When they can be obtained at a reasonable price in com-parison with other grains they may be

barson with the grant and hay hay be ded quite freely.

Burley does not seem to be relished by hens, but may be used to give variety to the grain ration. It has hilt-tle more protein than corn and a little

less than outs.

Buckwheat is guige liked by fowls, but is not widely fed. It may be used to vary the ration, but is usually too high in price to be contomical. Buck-

meal.

Rye is not fed largely, and does not seem to be much relished by polil ry. It is supposed to cause bowel trouble when fed freely.

ARRANGE PLAN OF ROTATION As Many Fields Should Be Established

as There Are Years for Fairly Constant Supply.

Constant Suppy.

In adopting a plan of rotation as many fields should be established as there are years in the rotation, for this gives a fulry constant supply of each crop. When a crop falls a similar crop should be substituted, as for example, outs for wheat, soy beans or cowpeas for clover. There is no other way to maintain a systematic rotation. 1

RIGHT DEPTH FOR PLANTING

No General Rule Can Be Reommended as Vegetables and Solis
Differ Greatly.

There is no general rule regarding the depth of planting, as different thind or vegetables and different solis necessitate different practices. The smaller the seeds the shallower the covering should be as a rule. In heavy solis the covering should be as a rule. In heavy solis the covering should be lighter than in light solis.

MUCH TIME IS LOST IN FIGHTING WEEDS

Survey Has Recently Been Conducted by Experts.

Special Attention Given to Best Meth-ods of Conquering Some of Worst Plants—Publications on Eradi-cation or Control.

ed by the United States Depart-ment of Agriculture.)

Grepared by the United States Departing the Company of the Company



Killing Roadside Weeds With Spray.
Bermuda Grass; 1161, Dodder; 1168,
Polson Ivy and Poison Sumue; 1092,
Canada Thistle.
Department circulars: 105, Chicory.
130 (5 cents a copy), Hawkweeds or
Paint Brushes buffeths: 511 (10
cents), Farm Practice in the Cultivation of Cotton.
In addition to these the following
multigraphed leaffets on special weeds
may be obtained by writing direct to
forage crop investigations, bureau of
plant industry. United States Department of Agriculture, Washington, D.
C.: Chemical Weed Killers; Bradeca
tion of Nat Grass; Wild Carrot; CorCrass; Killing Pundelions in Lawns;
Sheep Sorret; Chica Carrot; Chica
Erquication of the Corp.
Thistic.

CHI TIMATE DOTATORS OFTEN

CULTIVATE POTATOES OFTEN

Hoeing Should Be Done Once a Week for Six Weeks After Plants Appear—Kill Bugs.

Potatoes must be hoed or cultivated

Pointons must be hoed or cultivated at least once a week for about six weeks after the plants appear. While cultivating, the soil should be drawn about the plants, corning hills to protect the potatoes from the sun. Potato buse, old-fashioned "hard shells" and their children, the soft shells or slugs, old-fashioned "hard shells" and their children, the soft shells or slugs, are sure to eat the follage of pointons unless previous their consistence of the plant of the shells or slugs, and such the soil shell of the plant of the soil shell of the plant of the p

SWEET CLOVER BUILDS SOIL

By Vigorous Growth and Decay of Large Roots It Restores Humus In Large Quantities.

In Large Quantities.

As a soil builder sweet forcer is in a class by Istelf. By its vigorous growth and the decay of it large roots it restores humas to the soil in large quantities. If it is allowed to remain and decay where it has grown, large quantities of plant food are made available. Moreover, it is a legume and can, therefore, take its ultrogen from the air, thus adding an element to the soil that is very beneficial. Its long fieshy roots penetrate the subsoil and bring food to the surface for other plants to use, and, at the same time, improve the soil texture.

PROFITABLE SHEE OF FLOCK