

OATS?

Looking at the table of analysis, we find that oats contain more cellulose or vegetable fibre than any of the not at all suitable for the purpose), and can therefore furnish a larger sprout" than any of them. They are richer in mineral methods and the suitable for the purpose).

An extremely small amount of diastricher in mineral methods are suitable for the purpose. richer in mineral matters than the other grains, and lower in price.

But why not feed oats in their natural state, and thus save the trouble of sprouting them? Because in their dry state they are not especially rel-

tain fresh juices, which are very pal-stable and much relished. They contain these juices in a readily absorbable of the grains and helps to make it rapidly.

able form, along with the other quickly absorbable.

substances which they hold in solution,

3. They contain vitamines. This would be covered to the depth of six such as salts, etc.

With human beings at least, the relish of a palatable food greatly inof the pastric juices

Diastase is the most common and bestsoluble starch or similar substances

THE WRECK OF THE

MARY JANE

She was not a beautiful boat in any

thought that she was as near perfec-

patching before the hull would be suf-ficiently watertight to admit of her

in rather a clumsy fashion at the head

well-known among the

of the pier.

hold together or not."

ed on the stern of the yawl.

WE FEED SPROUTED tremely useful in storing up the food needed by the sprouting seed, it must be converted into soluble, absorbable sugars to be of any use to the growing plant. This conversion is brought other domestic grains (with the pos-sible exception of buckwheat, which is practically all seeds (it has been

tase will be catalysis—its mere presence-act upon and render available for absorption, many, many times its own weight of starch. As oats, as well as many other seeds, contain more diastase than they need for their own use—that is, more than is necessary ished by poultry and not greedily to convert all of the starch contained to convert all of the starch contained eaten. By sprouting they become more in them—the excess is available for palatable and are a very desirable the purpose of converting any other special feed for the following reasons: starch brought in contact with it. So 1. They are succulent. That is, if that, when the sprouted oats meet the properly prepared, sprouted oats con-tain fresh juices, which are very paloats immediately attacks the starch sight, and now the tide was rising

term was first applied to the sub- inches or more, and the thought that stance or substances that must be they might be obliged to remain there present in the diet of animals in all night, with the possibility of being creases its value, as that stimulates order that the animal organism may washed away and drowned was dethe appetite and causes a greater flow grow and reproduce itself. Their ex-cidedly disagreeable. act nature is as yet unknown, as they known of the plant enzymes or fer-ments, and is found in all sprouting plants that are in a state of active, They alternately shouted, watched present in all seeds into sugars or contain them in considerable amounts and they were obliged to stand

to be a truly nautical position. us; but I wanted to find out just how they were partially submerged. she'd sail before we get a crowd on

tion as it is possible to have a craft She had been used for many years by the crew of the not very staunch Mary Jane, and that name was paint at the end of that time they were con- toward them.

long-used schooner on to the beach at Belfast, convinced that it would not and gliding slowly away from friends to remove his clothing.

be safe to attempt to make another and home, they had failed to notice But such was hardly the farmer's ge in her, Mary Jane the Second, that the water was making its way intention. The tide had been ebbing called the small boat, was made through the imperfectly calked seams, for three hours, and to the unspeakvoyage in her, Mary Jane the Second. fast alongside, and after having been and it was not until their feet were able astonishment of Billy and exposed to the rays of the sun for wet that they realized what was sure- the man drove directly toward them

had purchased her at the low might not be dangerous. price of a dollar and twenty-five cents. for half an hour he worked in a leiscaptain, and he shipped Ned Dunham urely fashion, thinking that the matthey realized that they had remained as mate in order that he might have ter was not very serious, until Billy all night on Sampson's Ledge, when As the owner, Billy was, of course, some assistance in making repairs, for

was necessary to do very much post as fast as you can bail it out, arrived home. and it seems to me as if the leak keeps growing larger all the time."

Neither the captain nor the mate ments, and then it was that both the were expert carpenters; but they conboys saw many places through which ly, trived to do the work in a manner that was partially satisfactory to them-selves, and on a certain Saturday at a rate that threatened speedily to boat out. It's sunk, just there where morning Mary Jane the Second floated

swamp the Mary Jane. "Take in the sail and help me, or she'll sind."

friends of the captain and crew that alarm.

particular day, and there were very of departure; to gain the edge would been, in any danger, was but a slight many applicants for passage; but require at least an hour of time; to task; and the Mary Jane was not only many applicants for passage; but require at least an hour of time; of drogged ashore, but carried on the ox ling a sea captain who fully realized it would be necessary to make several al of his responsibilities, replied to tacks to reach the town, while to make yet be seen on the beach by the side each of his friends in the same words, the nearest shore was impossible ow-"You see, the Mary Jane isn't as ing to the fact that it would be at- wreck.

strong as some other boats, and I'd tempting to sail in the very teeth of rather not take any one with me but the mate till I find out whether she'll "Take in the canvas!" shouted the

mate, excitedly.
"Let it be!" shouted Billy. "I'll the As a matter of course there was no "Let it be!" shouted Billy. "I'll the small amount of disappointment amthe tiller, and perhaps we can keep ong those who believed they were enher afloat till we get to the ledge."

titled to a passage by the right of He was working even as he spoke, friendship; but they were all at the and as soon as the helm had been sepier to see the voyage begun, with not cured he began to help the mate, both an angry thought toward the skipper, bailing as rapidly as possible, for the for they recognized the necessity of water was pouring in so fast that giving the aged boat at least a fair their utmost exertions were necessary show before putting her to any set to keep it below the thwarts.

There was not a sail, nor even a Billy and Ned were provided with a rowboat, anywhere within ten miles, the Mary Jane, had an old leg-of-mut- Mary Jane had started, and shipwreck

Sixty very long minutes passed, tattered flag proudly hoisted, and Ned during which time the boys had work-cast off the hawser in obedience to ed as they had never done before, and the captain's loud command, while at the end of that time the crazy old those on the pier shouted themselves boat was so deep in the water that hourse as the old craft, swinging laz-both expected each instant to have her

leave a well-defined wake behind.

"She's just a humming, isn't she?" set the example. "She's going to sink, said Ned, in a tone of satisfaction, as sure, and we've got to swim for it." the Mary Jane passed the town at the rate of about two miles an hour the rate of about two miles and we was not more than two hundred yards away; there was hard-large the rate of about two miles an hour the rate of about two miles and hour two miles

The captain had thrown off his sweater and was attempting to re-move his shoes, when he bent too quickly toward the port side, and the old hoat gave up the struggle. It seemed as if she had been suddenly pulled from under her crew, so rapidly did she sink, and Billy and Ned each with his shoes on, were floundering in the bay.
Under ordinary circumstances the

would not have thought it much of a feat to swim that distance; but, encumbered as they were with a portion of their clothing, it was all they could

the reach the ledge.

The Mary Jane had sunk in nine feet of water, but "the flag was still there," as could be seen when the boys were on the rocks, the tattered ensign showing sufficiently above the surface to mark the spot where the old craft had gone down.

The fact that they were shipwreck ed mariners on a rock so far in midocean that they were a mile from land did not trouble them at first, but soon all that was disagreeable in the situation began to be felt. As the went by they grew hungry, but their provisions were at the bottom of the bay. The sun shene uncomfortably hot, but they had no shelter. They had expected that a vessel or a boat would soon come along to take them

8. They contain vitamines. This would be covered to the depth of six

On the right or island side of the 2. They contain diastase (or amyl- have been recognized and more thor- ledge the shore was hardly more than ase, as it is now called) to a large oughly studied only for about the last a mile away, but the point of land degree and in an active condition, twelve years. This much, however, is which projected toward the rocks was known about them: They are most covered with trees, and no signs of

and germinating seeds. Its purpose rapid growth, such as germs, spores, for a sail, bewailed their sad fate is to cause the conversion of the inleaves and sprouts and other succuand wished for something to eat until lent growths. So that sprouted oats sunset, when the tide was fully up, sugar-like products.

Starch in itself cannot be absorbed by the growing cell. Thus, while exgrain rations fed to poultry.

Starch in itself cannot be absorbed begins in the usual dry begins inches of water.

During the whole of that long, ter-

During the whole of that long, terrible night they wandered from rock hand, and assumed what be believed to rock, fully convinced that they "I should starve to death, and the rising s'pose it would have been safe enough of the sun brought them but little if we had taken a lot of the boys with cheer, for, the tide having risen again,

It was not until the middle of the oard." forenoon that they saw anything that
Then the skipper and his crew gave even promised assistance, and then sense of the word, as viewed from the themselves up entirely to the pleasure the glad sight of a farmer on the standpoint of a professional builder; themselves up entirely to the pleasure of listening to the murmur of the but Billy Carter and Ned Dunham water as it rippled against the bow the shipperecked ones to shout for joy.

of the gallant craft, and each felt The farmer answered them, but it that a great mistake had been made was impossible to hear what he said, in not preparing for a long voyage. and they made every signal which For an hour they were quite satisfied that they could have gone to sea great surprise, the man drove his nor fast-sailing fishing schooner, the in the boat with perfect safety; but team into the water, coming direct of

"He must intend to some as far as on the stern of the yawl. vinced that even four miles was too When Captain Sproul hauled his great a distance for so old a craft. In the excitement of being affoat him," said Captain Billy, as he began

the greater portion of one summer, ly uncomfortable, even though it until he arrived at the ledge, the water in no one place from the point to the The mate set about bailing out, and rocks being more than two feet deep. It was with no little shame that

ter was not very serious, until Billy exclaimed in tones of alarm:

ter was not very serious, until Billy all night on Sampson's Ledge, when they could easily have waded ashore xclaimed in tones of alarm: they could easily have waded ashore "It's coming in around the stern and walked along the beach until they

"What's the matter?" the farmer asked in surprise. "Why didn't you Ned ceased his work for a few mo- come ashore? Aren't hurt, are you?" "No," said Captain Billy hesitating- quickly when required. "we're all right; but we wanted to the flag is sticking up."

"I can do it easy enough, if one of you will swim out and tie this rope Captain Billy looked around him in to the painter. Then the cattle will soon yank it ashore."

they were to take a voyage of four The Mary Jane was midway be-miles—to Sampson's Ledge—on this tween the point of destination and that of Capt. Sproul's schooner, a perfect the piano for you?"

She never made another cruise, and instead."



worth while to build removable frames which are covered with muslin and which can be taken down or put up



Tried to Play on Her Feelings. "Why did you leave the room! Wouldn't your musical friend play on

"No-tried to play on my feelings



Miss Betty Howlett, the twelve-year-old mayoress, has just returned to school in Leicester after undergoing her civic duties in London, where her father is the mayor of Richmond. She is the youngest mayoress in England. the wheat. It helps also to prevent ill-ventilated one.

# THE SUNDAY SCHOOL LESSON

### JANUARY 11

The Last Judgment, Matt. 25: 31-46. Golden Text—Inasmuch as ye have done it unto one of the least of these my breathren, ye have done it unto me.—Matt. 25: 40.

I. THE MESSIAH'S THRONE, 31-33.
I. THE FINAL SEPARATION OF THE RIGHTEOUS AND THE UNRIGHTEOUS, 34-46.

RIGHTSOUS AND THE UNRIGHTEOUS, 34-46.

INTRODUCTION—Jesus, entering the Holy City as Messiah, cleanses the temple, and is taken to task by the authorities, and required to explain his commission or "authority." He does so, and in a series of discussional explains the true relation between the supparisance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God the nature of the life to come, and the suppreme importance of love to God

ather, because they have G

ginning has been intended to secure for these faithful ones the bliss and enjoyment of God's eternal presence.

Vs. 35-36. And why are those on the right hand recognized as the elect? Because, Jeeus says, "I was hungry and you gave me food, thirsty and you gave me drink, naked and you clothed me," etc. Loving deeds done to Jesus will be the test before the judgment-thrope. Did any one appease the Mossiah's hunger, slake his thirst, shelter him from the elements, take charge of him in sickness, visit him, in prison? These are his friends, his loved ones, and his own. A very simple test, but how searching!

Vs. 37-39. Naturally these men, who have come out of every nation, and hardly one of whom ever saw Jesus

have come out of every nation, and hardly one of whom ever saw Jesus' face to face, will be astonished beyond measure at this greeting, and will ask wonderingly "Lord, when did we see thee hungry, etc?" It was never their crivilege on earth to see Jesus with the eye of flesh.

V. 40. Then Jesus will explain. The Messiah identifies himself with sinning and suffering humanity. The hungry, the thirsty, the naked, the sick, the condemned on earth are his representatives. On earth Jesus loved them, and gave himself for them, and now they are to be understood as standing in Jesus' stead, as the proper objects of Christian love and kindness. The Messiah makes their cause his

POULTRY.

If you have a carefully selected, well-bred flock it is time for you to be planning the best way to market the eggs which that flock will lay next spring. It is more than likely that you can secure a contract which will insure you a premium of ten cents or more a dozen over market eggs prices during the hatching season.

In many sections of the country there are baby-chick hatcheries that depend upon farm flocks for their egg ket through a fairly long season to farmers and others who have well
The seafford a splendid market the farmers and others who have well
The seafford a splendid market the forms our lesson for to-day.

It is probable that Jesus often spokes the genuine of love to the poor and the needy as the characteristic mark of the genuine objects of Christian love and kindness. The Mæssiah makes their cause his over objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his over objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his over objects of Christian love and kindness. The Mæssiah makes their cause his over objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause his objects of Christian love and kindness. The Mæssiah makes their cause supply. These afford a splendid market through a fairly long season to farmers and others who have well-bred flocks.

The supply of suitable hatching eggs is quite inadequate, so that the owner of good stock will have little owner of good stock will have little in difficulty in arranging a satisfactory

of the universal judgment. All nations will be gathered before the throne of the Messiah, and blessedness in the kingdom, they are overwhelmed to find themselves cast out, and to hear the Judge say that he was hunger of Jesus.

THE MESSIAH'S THRONE OF JUDG-difficulty in arranging a satisfactory difficulty in arranging a satisfactory connection even though he may have to ship his eggs quite a distance to the hatchery.

Output

MENT, 31-33.

V. 31. The "Son of man" is the heavenly one, who, according to Danthe heavenly one, who according to Danthe heavenly one, according to Dan

difficulty in arranging a satisfactory connection even though he may have to ship his eggs quite a distance to the hatchery.

Get in touch with the hatcheries mear you and learn exactly how to which shall not pass away. Jesus will find them ready to meet you more than haifway if you can produce the thing hey want.

When several flocks of hens are kept in one long house it is considered a way practice to use wire-covered partitions between pens in order to provide for a maximum circulation of air during the summer months.

This frequently means too much farft in cold weather unless the front curtains are kept closed more of the time than is desirable. An excellent way to get around the latter difficulty is to cover the wire partitions with the summer months.

Muslin is of course to be preferred, and will be somewhat easier to apply. Of course its cost will usually be somewhat easier to apply. Some flock owners have found it worth while to build removable frames.

The messiant is the Menna" is the Menna" is the charles of the hatchery.

V. 31. The "Son of man" is the Menna" is the verification of partition of man, and the charles is the connection even they man to meet their requirements. You will find them ready to meet you more than haifway if you can produce the thing haif they want.

When several flocks of hens are kept his exert and the internal majesty, and with every mark of the divine favor. He will not to the divine favor. He will not to the thing which shall not pass away. Jesus will limb the radiant light of his eternal majesty, and with every mark of the divine favor. He will not to one of the sever lasting life. They meant perhaps the chance of others were no concern of theirs. Or they thought that the sufferings of they thought that the suffering of they t 34-46.

V. 34. At the solemn hour of judgment, the friends of the Messiah, his true servants and associates, will stand on his right hand. They will be addressed as the "blessed" of Jesus' et al. In the story before us, the Father, because they have God's own righteous are amazed that the multieous are amazed approval: and the kingdom of God tude of trifling services they had perwhich they shall inherit has been prepared for them "from the foundation should merit any glorious reward of the world." This means that every Unconscious goodness is the highest form of goodness.

## Top-Dressing Wheat With Straw.

For several years I have been producing more straw on my farm than I could work through my stables into manure; consequently, I have drawn out a large amount of straw during the winter and top-dressed wheat as a means of encouraging clover catches and to protect the wheat from adverse weather conditions during the winter and spring. I find this practice profit-nble and shall this coming winter topdress a considerable area of wheat

I begin top-dressing wheat with the straw as soon as the land is frozen hard enough to hold the wagon. I the ordinary manure spreader, but I present in sufficient amount. Where have tried spreading the straw with find that I can do it much faster with forks. As I always stack my straw is exercised not to uncover too much well saved alfalfa leaves, skim milk, of the stack at once, very little trouble nulred roots, and grain are a comwill be encountered with freezing.

I find it a good practice to throw the straw off in small piles on each side of the wagon, just enough to used in the swine feeding at the On-tario Agricultural College. It is giv-the straw is unloaded I go along and ing good satisfaction: 4 bushels charthe straw is unloaded I go along and spread it evenly and lightly upon the wheat. Here care should be exercised to spread the straw as lightly 2 quarts air staked lime, 1 pound sulcised to spread the straw as lightly as possible. Too heavy spreading is up or thrown back upon the wagon and hauled to the barnyard.

I consider top-dressing with straw

freezing and thawing in the spring. It also furnishes a mulch for the wheat during the growing season and assists in securing good clover catches

# HOGS

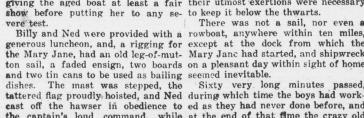
Prevention of Rickets in Swine.-Shall it be sunshine, cod liver oil, limestone, bone meal, rock phosphate or limestone plus sodium phosphate?

Investigations have shown that there is no difference in the effect of the type of calcium carrier when there was an abundant supply of antirach itic vitamine present in the feed. If a grain and skim milk ration is sup-plied to the growing pigs it is not at all likely that the vitamine is not a small allowance of cod liver oil (2 ounces per week per pig) is sufficient ounces per week per ickets. Sunshine, to protect against rickets. Sunshine, pulped roots; and grain are a com-bination in nutrition not ego disrupted by rickets.

The following mineral mixture is phur, 10 pounds of bone meal.

This preparation is kept in a suitlikely to smother the wheat. Frozen bunches of straw should be broken taken by the swine at will.

It is profitable to keep hens comduring the winter a great protection fortable. Keep the coop free from to the wheat crop. It helps to catch draft, still well ventilated and dry. the snow and furnishes a covering for The coldest coop is the tightly closed.



ily around into the wind, began to sink beneath their weight. glide away with sufficient speed to "Take off your jacket and shoes,"