SERMON. **FALMAGE'S**

A TALK FULL OF THE SUMMER Spirit.

Olive Branches and Plac Branches and Myrtle Branches and Palm Branches * * * " to Muke Booths."-Noh. 8:15

[Copyright, 1901, by Louis Klopsch, N. Y.] of Dr. Talmage is full of the breath of the hills and fields and is a summer sermon; text, Nehemiah viii, 15, "Go forth unto the mount and fetch olive branches and pine branches and myrtle branches and palm branches and branches of thick trees to make booths."

It seems as if Mount Olivet were unmoored. The people have gone into the mountain and have cut off tree branches and put them on their shoulders, and they come forth now into the streets of Jerusalem and on house tops, and they twist these tree branches into arbors or booths. Then the people come forth from their comfortable homes and dwell for seven days in these booths or arbors. Why do they do that? Well, it is a great festal time. It is the feast of tabernacles, and these people are going to celebrate the desert travel of their fathers and their deliverance from their troubles, the experience of their fathers when, traveling in the desert, they lived in booths on their way to the land of Canaan. And so these booths also became highly suggestive -I will not say they are necessarily typical, but highly suggestive-of our march toward heaven and of the fact that we are only living temporarily here, as it were, in booths or arbors, on our way to the Canaan of eternal rest. And what was said to the Jews literally may be said figuratively to all this audience. Go forth unto the mountain and fetch olive branches and pine banches and myrtle branches and palm branches and branches of thick trees to make booths.

We Need Olive Alraughes.

Now, if we are today going to succeed in building this gospel arbor we must go into the mount of God's blessing and fetch the olive branches, and whatever else we must have we must have at least two olive branches. peace with God and peace with man When I say peace with God, I do not mean to represent God as an angry chieftain, having a grudge against us, but I do mean to affirm that there is no more antagonism between a hound and a hare, between a hawk and pullet, between elephant and swine, than there is hostility between holiness and sin. And if God is all holiness and we are all sin there must be a treaty, there must be a stretching forth of olive branches.

There is a great lawsuit going on now, and it is a lawsuit which man is bringing against his Maker. That lawsuit is now on the calendar. It is the human versus the divine, it is iniquity versus the imaculate, it is weakness versus omnipotence. Man began it God did not begin the lawsuit. We began it. We assaulted our Maker, and the sooner we end this part of the struggle, in which the finite attempts to overthrow the infinite and omnipotent-the sooner we end it the better. Travelers tell us there is no such place as Mount Calvary, that it is only a hill, only an insignificant hill, but I persist in calling it the mount of God's divine mercy and love far grander than any other place on earth, grander than the Alps or the Himalayas, and there are no other hills as compared with it, and I have noticed in every sect where the cross of Christ is get forth it is planted with olive branches. And all we have to do is to get rid of this war between God and ourselves. of which we are all tired. We want to back out of the war, we want to get rid of this hostility. All we have to do in just to get up on the mount of God's blessing and pluck these olive branches and wave them before the throne. Peace through our Lord Jesus Christ!

Health for Mind and Soul.

But my text goes further. It says, "Go up into the mountain and fetch olive branches and pine branches." Now, what is suggested by the pine branch? The pine tree is healthy, it is aromatic, it is evergreen. How often the physician says to his invalid patients: "Go and have a breath of the pines. That will invigorate you." Why do such thousands of people go south every year? It is not merely to go to a warmer climate, but to get the influence of the pine. There is health in it, and this pine branch of the text suggests the helpfulness of our holy religion. It is full of health-health for all, health for the mind, health for the soul. I knew an aged man who had no capital of physical health. He had had all the diseases you could imseine. He did not eat enough to keep a child alive. He lived on a beverage of hosannas. He lived high, for he dined every day with the King. He our holy religion. It is a healthy religion-healthy for the eye, healthy where they bury you? The angel of for healthy for the liver, healthy for the teries of the earth are in God's care gives a man such peace, such quiet- | conqueror. ness, such independence of circumstances, such holy equipoise. Oh, that we all possessed it, that we possessed ft now! I mean it is healthy if a man gets enough of it. Now, there are some people who get just enough religion to bother them, just enough religion to make them sick, but if a man takes a full, deep, round inhalation of these pine branches of the gospel arbor he will find it buoyant, exnberant, undying, immortal health,

suggests the simple fact that religion is evergreen. What does the pine branch care for the snow on its brow It is only a crown of glory. The winter cannot freeze it out. This ever green tree branch is as beautiful in winter as it is in the summer. And that is the characteristic of our holy religion. In the sharpest, coldest winter of misfortune and disaster it is as good a religion as it is in the bright summer sunshine. Well, now, that is Washington, Sept. 1.-This discourse a practical truth. For suppose if should go up and down these aisles would not find in this house fifty people who had had no trouble. But there are some of you who have especial trouble. God only knows what you go through with. Oh, how many bereavements, how many poverties, how many persecutions, how many misrepresentations! And 'now, my brother, you have tried everything else, why do you not try this evergreen religion? It is just as good for you now as it was in the day of prosperity. It is better for you. Perhaps some of you feel almost like Muckle Backle, the fisherman, who was chided one day because he kept on working. although that very day he buried his child. They came to him and said, "It is indecent for you to be mending that boat when this afternoon you buried your child." And the fisherman looked up and said, "Sir, it is very easy for you gentlefolks to stay in the house with your handkerchief to your cyes in grief; but, sir, ought I to let the other five children starve because one of them is drowned? No, sir. We maun work, we maun work, though our hearts beat like this hammer."

The Significance of the Palm. But my text takes a step further and it says. Go into the mountain and fetch olive branches and pine branches and paim branches. Now, the paim tree was very much honored by the ancients. It had 360 different uses. The fruit was conserved, the sap was a beverage, the stems were ground up for food for camels. The base of the leaves was turned into hats and mats and baskets, and from the root to the top of the highest leaf there was usefulness. The tree grew 85 feet in height sometimes, and it spread leaves four and five feet long. It meant usefulness, and it meant victory-usefulness for what it produced and victory because it was brought into celebrations of triumph. And oh, how much we want the palm branches in the churches of Jesus Christ at this time! A great many Christians do not amount to anything. You have to shove them off the track to let the Lord's chariots come along.

I know the old plan was, the plan now is, in regard to worldly investments-you hear it, merchants tell you -do not put everything into one thing. do not put all your eggs into one basket. But I have to tell you in this matter of religion you had better give your all to God and then get in yourself. Oh, says some one, "My business is to sell silks and cloths." Well then, my brother, sell silks and cloths to the glory of God. And some one says, "My business is to raise corn and carrots." Then, my brother, raise corn and carrots to the glory of God. And some one says, "My business is to manufacture horseshoe nails." Then manufacture borseshoe nails to the glory of God. There is nothing for you to do that you ought to do but for the glory of God.

The Victory Over Satan.

But the palm branch also meant victory. You all know that. In all ages, in all lands, the palm branch means victory. Well, now, we are by nature the servants of satan. He stole us he has his eye on us, he wants to keep us. But word comes from our Father that if we will try to break loose from this doing of wrong our Father will help us, and some day we rouse up, and we look the black tyrant in the face, and we fly at him, and we wreatle him down, and we put our heel on his neck, and we grind him in the dust, and we say, "Victory, victory, through our Lord Jesus Christ!" Oh what a grand thing it is to have sin under foot and a wasted life behind our backs. "Blessed is he whose transgression is forgiven and Those sin is covered."

Some one says "How about the inture?" What, says the man, I feel so sick and worn out with the ailments of life. You are going to be more than conqueror. But, says the man, I am so tempted. I am so pursued in lite. You are going to be more than conqueror. I, who have so many ailments and heartaches, going to be more than conqueror? Yes, unless you are so self conceited that you want to manage all the affairs of your life yourself instead of letting God manage them. Do you want to drive and have God take a back seat? "Oh no," you say. "I want God to be my leader." Well, then, you will be more than conqueror. Your last sickness will come, and the physicians in the next room will be talking about what they will do for you. What difference will it make what they do for you? You are going to be well, everlastingly well. And when the spirit has fled the body, your friends will be talking pass. was kept alive simply by the force of as to where they shall bury you. What difference does it make to you the resurrection can pick you out of healthy for the heart, the dust anywhere, and all the cemespleen, healthy for the whole man. It Oh, you are going to be more than

Finishing the Arber.

My text brings us one step further. It says, "Go forth into the mount and fetch olive branches and pine branches myrtle branches and palm branches and branches of thick trees." Now, you know very well-I make this remark under the head of branches of thick trees—that a booth or arbor made of slight branches would not stand The first blast of the tempest would prostrate it. So then the booth or

But this evergreen of my text also larbor must have four stout poles to hold up the arbor or booth, and hence for the building of the arbor for this world we must have stout branches of thick trees. And so it is in the gospel arbor. Blessed be God that we have a brawny Christianity, not one easily upset. The storms of life will come upon us, and we want strong doctrine; not only love, but justice; not only invitation, but warning. It is a mighty gospel; it is an omnipotent gospel. These are the stout branches

of thick trees. I remember what Mr. Finney sale in a schoolhouse. The village was so bad it was called Sodom, and it was said to have only one good man in all the village, and he was called Lot. and Mr. Finney was preaching in the school house, and he described the destruction of Sodom, how the city was going to be destroyed unless they repented and that there would be rain from heaven of sorrow and destruction unless they, too, repented. And the people in the school house sat and ground their teeth in anger and clinched their fists in anger, but before he got through with his sermon they got down on their knees and cried for mercy while mercy could be found. Oh, it is a mighty gospel; not only an invitation, but a warning, an omnipotent truth, stout branches of thick trees.

Well, my friends, you see I have omitted one or two points not because I forgot to present them, but because I have not time to present them. I have shown you here is the olive branch of peace, here is the pine branch of evergreen gospel consolation, here the palm tree branch of usefulness and of victory, and here are the stout branches of thick trees. The gospel arbor is done. The air the arbor. Come into the booth. went out at different times with a fowler to the mountains to catch pigeons, and we made our booth, and we sat in that booth and watched for the pigeons to come. And we found flocks in the sky, and after awhile they dropped into the net, and we were successful. So I come now to the door of this gospel booth. I look out. see flocks of souls flying hither and flying thither. Oh, that they might come like clouds and as doves to the window. Come into the booth. Come into the booth.

NOTED WOMAN SUFFRAGIST.

Gen. Cassius M. Clay's Daughter Has

Done Much for Her Sex in Kentucky. Within the past twelve years Miss Laura Clay, woman suffragist and daughter of the famous old Whitehall general, Cassius M. Clay, has revolutionized the position of women in Kentucky. She is the president and founder of the Equal Rights Association of Kentucky and under her leadership wonders have been accomplished. She is a mild-mannered, blue-eyed, roundfaced little woman of pleasing address. but in pertinacity and vigorous intellect she is her noted father's daughter. From girlhood she has been a stanch advocate of the idea that commercially, legally, professionally and politically, woman is and should be recognized as the equal of man. In 1888 she began the serious battle for this idea. She was chosen president of the State Equal Rights Association in that year and appeared in Frankfort with certain bills which the association wished to have passed. At first politicians laughed the matter away, but ere long they found occasion to review their opinion of the equal rights propaganda. They passed some of the bills and thought that ended the matter, but the next session found the women lobbying as actively as ever. Billa were passed going a step further, and now the committee from the Equal Rights Association is one of the fixtures at Frankfort

SAW THE POINT.

Director of a Railroad the Victim of an Employe's Sarcasm.

A railway director, who can take a joke as well as he can give one, is the good-natured subject of the following story: One of the employes of the road made application to him for a pass, in order that he might go home to visit his family.

"You are in our employ?" asked the director. "Yes, sir."

"And you receive your pay regular-

"Well, let us suppose that you were working for a farmer. Would you expect your employer to take out his horses every Saturday night and crive you home?"

"No, sir," answered the man, without a moment's hesitation. "I should hardly expect him to do that; but if the farmer had his horses out and was going my way, I should think he was a pretty mean man if he refused to give me a lift."

And the more the director thought of it, the more it seemed to him that his question had been very satisfactorily answered. The man got the

A Twinnish Family.

Mrs. James Little, who lives nee Atchison, Kan., who was herself twin and the son of a twin, has given birth to her second pair of twins, the first pair being about 18 months old when the second pair made its appear-

The acme of perfection would soon be reached if people would only follow the advice they give to others.

White girls in the South find great difficulty in obtaining places of domes tic service. While it, is admitted that the vocation is highly honorable, it i claimed that the colored servants are better trained and more competent.

MATTERS OF INTEREST TO AGRE

Thereof-Horticulture, Viticulture and Floriculture.

CULTURISTS.

Soil Analysis as a Guide.

The Ohio Experiment station re reives many such requests as the fol lowing: "Will you make a chemical analysis of my soll to determine whether I need nitrogen, potash or phosphoric acid, and, if so, what will be the charge?"

To this request we make the uniform answer that such an analysis would be very expensive, and when made would usually have very little value as guide to the use of fertilizers for the reason that the chemist has as yet discovered no reagent which possesses the same capacity for extracting plant food from the soil as that of the living tissues of the plant. To illustrate: Potash is a characteristic constituent of granite rocks, and a soil formed from such rocks may appear rich in potash under the chemist's analysis, and yet if that potash be still in the form of granite sand it will be yielded up very slowly to the feeble solvents of the

Again: In some of the southers states are immense beds of rocks containing large percentages of phosphoric acid: but if these rocks are merely ground and mixed with the soil their phosphoric acid, which has resisted the aromatic of heaven. The leaves rustle | solvent action of soil water for ages, | grass on adjoining lands yielded only with the gladness of God. Come into will continue insoluble, and hence the half a ton of hay per acre.-H. M. Cotnecessity for treating these ground trell, Agriculturalist Kansas Experirocks with sulphuric acid, in order to ment Station. make their phosphoric acid available. Still further: When a piece of marshy land has been drained it is often found that the crops planted upon it fail to shown a pickle worm, natural size. thrive, although it seems to be very These worms vary much in appearance, rich in nitrogen. The remedy here is some being of a yellow-ash-white and to add barnyard manure, something very much resembling the inside of which savors strongly of carrying coals | an unripe melon, while others are to Newcastle; but the explanation is tinged more or less with green. They that the semi-aquatic vegetation which are quite soft and translucent, and formerly occupied the land decays so there is a transverse row of eight slowly that cultivated crops cannot get nitrogen rapidly enough for their needs. When the manure is added, however, it sets up a fermentation, which converts the nitrogen bearing materials into a more soluble and hence available form.

> For these reasons the only practical way of learning the needs of a particular soil is to make experiments on that soil, after the general plan of those described in the bulletins of the Experiment station on the maintenance of fertility, and thus learn which combination of fertilizing materials will produce the greatest effect. -Chas. E. Thorne, director Ohio Experiment Station.

Irrigation in Siberia. From Farmers' Review: The agricultural possibilities of Siberia are vast and but indifferently understood. The banishment of Russian political prisoners to severe and rigorous stations has created the impression that all Siberia is frigid and incapable of agricultural development. There are in the czar's Asiatic dominion millions of acres of fertile lands spiendidly adapted to the growth of grains, and large areas are even now being farmed. Siberia, nowever, is a vast country and in many sections which have shown some agricultural development the winters are long and cold while the summers on the other hand are very warm and dry. Many of the small streams which are used for irrigation dry up during this season, the ground bakes and agriculture suffers much. To remedy this evil the farmers of certain districts construct each year storage reservoirs, and in the summers use the contents, reservoirs and all, for the support of their crops. They do it in this manner:

During the winter they collect great drifts of snow in the bottoms of deep, shaded valleys, rolling it down the sides in immense snow balls and there pressing and compacting it so that it will be more resistant to thawing. At the end of the winter they cover the enormous piles thus formed with branches, straw or trash, in order to protect the snow against the sun's heat. All during the spring this mass of snow melts a little during the days. but freezes at night until it becomes a great solid cake of ice. Then, when the temperature rises to summer heat and the streams begin to dry up from lack of rain, this snow-ice commences to melt away, and by means of a ditch leading from it, the water which runs down supplies the river until the recurrence of rainfail.—Guy E. Mitchell.

Fall Seeding of Alfalfa.

grass pastures were eaten to the roots and then the cattle were turned on the meadows and these were grazed as closely as the pastures. Where this ing case of second-growth timber, if is the case, it is probable that with us- he has not a section of the tree. and winter a large part of these pas- and pine-white and Norway-of from tures and meadows will next spring be | 20 to 30 years' planting from the nurseither dead or so badly killed that they ery, and find these trees from 8 to 14 will have to be plowed up. This means inches in diameter, and from 20 to 40 a severe shortage next year in hay, and farmers should prepare to meet this shortage now. It can be met by sowing alfalfa between August 15 and I count 24 rings. When cut down the September 15. Alfalfa sowed at this time under favorable conditions will furnish a good cutting of hay nex May, and with ordinary conditions will yield three to four cuttings of hay next

The ground for alfalfa should be well settled before seeding and only the surface made loose. Alfalfa will usually fall if seeded in the fall on freshly plowed ground. Well cultivated corn fields, with the stalks cut and drawn Raphaelite group

off, give ideal conditions. Such should not be plowed but harro only before seeding. Wheat, oats, I and millet stubble ground plowed shallow, harrowed thoroughly and allowed to settle before seeding, furnish good conditions for alfalfa. If such ground is mellow, plowing may not be necessary, as the land will only need to be

disced and cross-disced. The best time to sow is in the last half of August. It is safe to sow late as September 15 if conditions are good. The ground must be well settled, with a loose mulch on top and well saturated with moisture so as to bring up the seed quickly and force the fall growth. If either of these conditions are lacking it will not pay to

The pest way to sow is with a press drill using 20 pounds of seed per acre. Mix the seed with equal parts, by measure, of coarse, cornchop or bran. Drill half the seed one way and crossdrill the other half. If necessary to sow broadcast, use 25 to 30 pounds of seed per acre, cover with a harrow and roll unless there is danger from blowing. It is much better to seed with a | ment. drill. Alfalfa should be sown alone.

The best quality of seed will give the best stand and the most vigorous growth and is always the most profitable to use, although it costs the most.

Alfalfa will grow on any welldrained soil that will produce corn It does best on well-drained bottom lands that do not overflow, but in the eastern half of Kansas, when properly handled, is a profitable crop on upland. Alfalfa seeded last fall on upland in Shawnee and Riley counties gave two good cuttings this summer before July 5, while tame meadows and prairie

The Pickie Worm.

In the accompanying illustration is of the sun and dry winds. The prac-



shiny, slightly elevated spots on each of the segments.

The worms appear about the middle of July and continue their destructive work till the 1st of October. They attack the little cucumbers just when they are of right size for pickles, bore round holes in them and feed on the tender fruit. They are great feeders and as many as three or four will sometimes be found in a single cucumber. They develop rapidly and reach full growth in three to four weeks.

When about to transform, they for sake the fruit in which they had burrowed, and drawing together portions of some leaf that lies on or near the ground, upin a light cocoon of white allk. In this cocoon, if it is not too late in the season, they change to moths like the one here shown, emerging in about ten days. The late ones pass the winters in the cocoons. The moth is very strikingly marked. It is of a yellowish brown color, with an tris-purple reflection.

Mary Treat, in her book on "Injurious Insects," says of it: The pickle



worm is indigenous and has, doubtless existed in some part or other of the country from time immemorial. The French entomologist, Guenee, gives as its food-plant a species of potato, and it is just possible it may not always have fed upon the same plants upon which it was first found in this country. The best remedy is hand picking, feeding the infested fruit to stock.

B. S. Hoxie of Wisconsin, in a note to the Farmers' Review, finds fault with a recent article on forest preservation. The sentence that most arouses his resentment is: "Careful estimates on the growth of the spruce show that the trees now having a diameter of 18 inches cannot be replaced by trees of the same size in less than 150 years." In commenting on this Mr. Hoxie says: "While it is true that the spruce, as well as nearly all the other conferous trees, make slow growth during the In some sections this summer tame | first four or five years from seedlings, they are not slow-growing trees, as anyone can satisfy himself by counting the grains or rings in almost any packual conditions during the coming fall have visited several groves of spruce feet tall. I have a cross section of a spruce that measured 13 inches in diameter one foot from the ground, and tree was 42 feet long. This tree grew on a neighbor's lawn, and I knew the date of its transplanting from nursery.

> W. J. Stillman, who died recently in England, was a man of varied talentsan artist, art critic, author, journalis diplomatist and archaeologist. H was an intimate of Ruskin, Millate Hunt and other members of the p

the following: The irrigation practiced in

has thus far been on a small Plants capable of irrigating acres are the rule. They have ever, clearly demonstrated two -first, an irrigation plant is able adjunct to a farm; and that it pays. In most cases the has been applied by pumping. from a stream or from wells. cost of these small plants is relati large per acre, yet in all cases have proved profitable, because t water has been used for such crops are liable to suffer seriously in o of short drouths. Of the eight a plants of which full data have be obtained, the initial cost per sore to them ranges from \$25 to \$100, and with the exception of one case, the water is applied by pumping: in four cases it is obtained from streams, and in the others from wells, and the returns thus far have in all cases paid a large rate of interest on the invest

The question of small plants and their erection and equipment has been well worked out, and one capable of furnishing water for from 6 to 8 acres can be erected and equipped for from \$400 to \$500, depending on the location of the land in reference to situation of the water—that is, whether the point to which the water is to be raised be high or low. This does seem a relatively high initial cost as compared with that of canals and ditches or even of storage, but as used in intensive prestice and for crops of a high commercial value these plants do return a large profit on the investment. The information thus far gathered indicates that irrigation is desirable in the humid districts, and that small plants while relatively expensive, are prec ticable and result in greatly reducing the effects of a deficiency in rainfall.

Care of Trees from the Nursery. Whether purchased direct from the

growers, or ordered through agents

care should be taken that the roots of

the trees are not exposed to the action

tice of many farmers of placing the bundles in their wagons and driving home without taking any pains to covor them to prevent the drying of the roots has undoubtedly caused the loss of thousands of nursery trees. We straw and blankets should always be provided when notice has been re ceived that the agent from whom the trees have been ordered in to make a delivery, and, as soon as possible, the trees should be either planted or heal in. When received in the fall, unless one has a cellar, where the te ture can be kept just above the fr ing point, in which they may be pl with their roots in the soil, it will be desirable to heel in the trees in some well-drained spot, where there will be no danger from standing water. trench should be dug a foot or so I depth and about three feet wide, I which the trees should be placed w the tops inclined toward the so an angle of about twenty-five or the degrees from the horisontal. The bundles should be opened and the soil thoroughly worked among the roand pressed about them. It is always advisable to have the trunk and great er part of the branches covered, as cially in the case of peach and or tender fruits, and whenever fruits have not been thoroughly ripened. Care should be taken to have no straw or rubbish about the trees, but it is good plan to use evergreen boughs to break the sun's rays and prevent the alternate freezing and thawing, as well as the rapid thawing of the trees after a severe cold spell. A trench should always be dug to carry off any surface water about the trees.-Michigan Bulletin.

The Hawaii Experiment Station. A United States Experiment Statio is in process of being established on the Island of Oahu, one of the Hawaiian group. The piece of land to be new begins in the suburbs of Honolule and is at that end only 100 feet above the sea. It rises gradually for a distance of two miles, and is at that distance 1,400 feet above sea level. The lower slope is densely covered with thickets of native growth, but the upper third is covered with a planted forest of Australian Eucalyptus, Acacia and Grevilla species. The build ings are now being erected. One of the important lines to be taken up is that of the production of hay-making grasses. All hay is now imported an retails at \$27 per ton in Honolalu Another line to be followed will be as attempt to enallo the tops of the sugar cane. At the present time all of this material is dried and burned. The cultivation of citrus fruits will also be gin, in an attempt to give the native some product they can export at profit. Poultry culture will also b investigated and stimulated. At pres ent there is a troublesome d among fowls that makes it difficult to raise chickens. As a consequence fowl meat and eggs are very high.

Fratt Rotes. Peaches in many parts of Ohio as about half their usual size and w

Pears are reported a large crop Jefferson and Harrison counties, The prospects for peaches grapes in New York state favorable but pears will be a

Illinois fruit prospects are post n New Jersey except peaches. A are so numerous in Gloue that some fields of cantalogues heen entirely destroyed. California reports state that me fruits are of good o