By W. H. LYTLE, D. V. M. For several years past a malady of horses has appeared from time t'me, causing severe and unusual loss-es. The disease has been labeled by the Eastern Oregon wheat grower as the Walking Disease largely because washing symptoms were frequently met with and the term is so describtive of some of the symptoms that for we will allude to it here under the

same caption. Various exper ments have in the past been carried out to prove or disprove various and sundry theories as to the cause and exact mature of the disease, none of which have tended to throw any considerable amount light upon the disorder. At one time lupine, a poisonous weed or plant in certain states of growth, was suspected as being responsible for the losses. At another time the infestation of bots was thought to be possibly in some manner connected with the trouble. Rarly in the investigation of the malady a blood infection was suspected. All of these suspected causes have been largely disproved by experiment -Lupin was fed in great quantities to susceptible horses without apparent harms, likewise bots were removed from slaughtered, ailing animals and fed to susceptible horses without developing the disorder and lastly blood was removed from the jugular vein of an ailing animal and injected into the circulatory system of another horse without and untoward results. These experiments, while not sufficiently extenaive enough to be entirely conclusive; nevertheless throw a certain amount of light upon that the dis is most likely not due to.

It might here well be mentioned that males seemed to be immune to the disorder, hence in the absence of any specific cause being discovered and knowing no satisfactory and effective treatment, the best advice that could be given the unfortunate farmslock grower was to go out of the horse business and buy and use mules. Mules are good farm animals but owwhen they are once worn out, they have left no progency to take their place, hence mule farming has made wheat farming more expensive than horse farming and has left the only possible means of financing the industry to the procedure of buying them supplying of the mineral foods and and vitamine deficiency. ing them two years and growing them out and then selling them when five or sky years of age. This has proved fairly satisfactory but this year mules are not selling well and the farmer is left with expensive non-reproductive animals on hand. Hence the wheat farmer would gladly go back to the to the mineral draining caused by the

Within the past two years many of as the horse and hence does not, bethe mystery diseases of medicine have been connected up with mineral deficiency and nutritional disturbances. At this time it would seem that the so-galled Walking Disease is due to a second of the body. The mule's extreme hardiness is regarded as the horse and hence does not, because of the use of the super passential minerals, which are mixed with all of the juices and secretions of the body. The mule's extreme hardiness is regarded as the chief rea-

TO HONOR U. S. 'UNKNOWN'

STORE AND ROTHER THE



Lady Limerick has been suggested as the bearer of England's wreath which British women will send tothis country for the dedication of the Tomb of the Unknown American Warrior. She lost her son in the war and endeared herself to American soldiers through her canteen and other war work

prote'n and mineral deficiency in the son for his immunity to the Walking diet existing over a long period of time, thus leading up to a very chronic condition which is only sufficiently minutely removed from what might o the proceduce of buying them supplying of the mineral foods and and virumine deficiency. It should be two to three years of age, workbroad mare in order to diversify a demand of the foetus; secondly, the little if it were possible to avoid the mule is a very hardy animal, not given Wiking Disease trouble of past years. to worry, does not perspire as freely

Disease trouble, his system may b capable of better and more thorough assimilation of all foods. Wheat hav ing to their non-repreductive nature be termed satisfactory an mai health, is known to be deficient in lime or calare more or less in the same class to affect those animals that have a clum phosphate and certain vitamines with the tractor and automobile—somewhat heavier drain upon their, found principally in the leaves of certain vitamines. found principally in the leaves of cersystem. For instance, mares that tain plants and because this is used in have given birth and nursed colts the principle roughage food throughout the whole Island Empire district it is thought that the real cause of has its origin in an essential mineral drain upon an otherwise heavily taxed conomy and there is good reasons for believing that the chief reason why mules do not become affected is first, because they do not bear young and the control of the bear states that must be had in certain minimum amounts, either from mineral stores reserved that the bear of from foods. When some of these are not available, marktake place and death frequently re Certain of these nine minerals if entirely withheld will produce death so short a time as a month.

A careful observation of Walking Disease outbreaks will reveal that twice as many mares that have foolded during the year die, compared with those which have not together with those reldings and mares that tre making a considerable growth and have worked quite regularily and beavily throughout the year, and those in male that are forced to rough it with but little whole wheat to be had from the header dumpines, will be found the ones to show Walking Disstubble and posture are also found to offer from the disorder.

The treatment from a medicinal standpoint, if the essential mineral deficiency presumption is correct would be to supply these in the form of a stock tonic or lick; this should emprise Sulphur, Ferrous Sulphats, lagnesium Sciphate, Calcium Phos chate, Potassium, Ricarbonate, diem Ricarbonate and Sodium Chlo-This mixture should be n a box under a shed, away from the destructive tendency of the weather, where the animals might have access

In addition to the nine essential ninerale, Calcium Manganese, Sodium otassium, Iron, Chlorine. Phosphores and Sulphur, are two other chemically unidentified apostances designated by McCollum, the discover-er, as Fat Soluble A and Walter Soluble B. By some these two as yet un-dentified substances are further split up into vitamines. This much is al-ready known regarding Fat Soluble A t is found in animal fats, fresh leafy vegetables, the grains are poor in it Water Soluble B is found in yeast, egg yolk, germs of seed, leaves of fresh mmature plants. Both of the ducts are necessary to growth and life eaves of immature plants, both are to be found in yeast, hence the best ra tions to supply these products would ting of alfalfa hay and the most con centrated form of essential vitamine to be had would be in yeast cakes. One yeast cake in warm water should be given night and morning to hadly siling animals. Alfalfa hay should be fed to the entire band. This could well be mixed with wheat hay or other mature and non-leaf bearing forage. Alfaifa hay contains an unusual amount of calcium phosphute and other minerals and by feeding this the mineral requirements of the body may be kept up to more than the normal requirement. Alfalfa hay containing much protein balances well with wheat bay and makes a very satisfactory really never found a case of Walking Disease in a band of horses that had access to alfalfa hay, though it be but part of the time. Along with this rution treatment of ailing bands of herses should be carried out a vaccination reatment to protect them from Hemorrhagic Septicemia, a disease that is widespread and frequently

fown condition. Within the last month several reports have come from the wheat districts of Eastern regon that this trouble is again appearing. We attriwet fall. Practically all shattered wheat in the field and that in the header dumpings has sprouted and its food value has been largely destroyd, hence animals that have

arimals only when they are in a run

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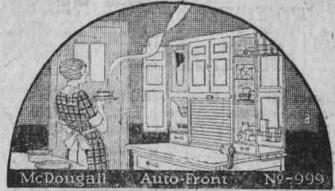
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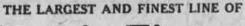
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roughing it have been forced to eat wheat hay and header dumpings gon wheat farmers will make it a has an excellent opportunity to try

large quantities of what stage and a mix it with the capacital minerals and vitamine deficiency is beginning to show. There is, in our opinion, just one thing to do and that is to purchase second and third cutting alfalfa hay and mix it with the capacitation of the second stage of the



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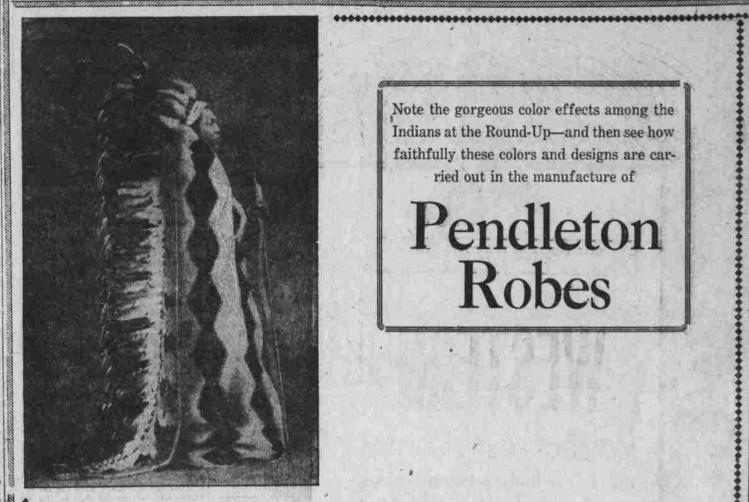
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