How to Feed Horses.

M. J. Storer, in a lecture before an English farmers' club, spoke of the by means of the ingenious instruments feeding of horses as follows: How must horses be treated that they may must horses be treated that they may be able to perform a certain amount of It has been thus shown that the Baltic, work without injury to their system | between Sweeden and Norway, is 125 In the first place, they must have food; in the secondplace, they must have ice and Trieste, 130; the English Changrooming; and, in the third place, they nel, 300; the Irish Sea, in the south must have good stabling. In regard to food, of all animals the horse, in comparison to its size, has the smallest stomach; it is, therefore, of great im portance that his food should contain as much nutriment as possible in the smallest bulk, more especially when undergoing hard work. Hay and oats undergoing hard work. Hay and oats have this qualification to a greater degree than any other of the feeding stuffs in general use, and that they should form the staple food has been proved by long experience. Bruised oats are very suitable for old horses and those that bolt their corn, but beyond this than have nothing but beyond this they have nothing specially to recommended to them.

The average quantity of oats required to keep a horse undergoing hard work in good condition is about twenty pounds per day. Of course some horses would cat more; others cannot be induced to consume more than fourteen pounds. Drivers of contractor's horses are practically aware of the fact face. that the more they can get their horses to eat, the more work they will do. But the result of over-feeding and over-working is the premature death of many valuable animals. Indian corn, when it happens to be cheap, may be advantageously used in the proportion of one to six; the only objection to it is that it causes torpidity of the bowels. This must be counteracted by

giving an equal proportion of bran. Beans, but for their heating tendency, would form a very suitable adjunct to oats, as they contain a large proportion of nutritive material. They may be safely given to animals that are hard

wrought and neward of seven years.

A horse can't be maintained in good health on grain alone; the stomach re quires a certain amount of mechanical distention to keep it properly. Hay and straw serve this purpose. Ordina-ry allowance should be about twenty pounds per day; something like five pounds per day, something like hie pounds in the morning, five pounds at midday, and ten pounds at night. A few years ago, chopped hay became greatly in vogue; but the principal argument in its favor was that the bad hay was eaten along with the good. This tells seriously against the plan, as a horse is certainly better without hay in his stomach than with it. All kinds of straw are inferior to

hay, oat being the only variety that should be used; it does well when horses are idle, as they are not liable to get into too high condition on it.

Fine Sand for Glass.

INTERESTING DESCRIPTION OF THE EXTEN-SIVE SAND WORKS NEAR MCVEYTOWN, ON THE JUNIATA-HOW THE SAND 18 OBTAINED.

The extensive sand works near Me-Veytown, on the Juniata, are thus de-

the best American plate-glass. The vein now being worked is eighty-five feet from the surface, and is under- United States of America in congress and good name of the surface, by the senate and scholarly contribution to biographical literature, and will be welcomed accordingly. (12mo, illustrated \$1.50) neath another, the two being separated by about fifteen feet of sand-rock, which can at anytime be cut through. It is pitch dark, and the atmosphere is permeated with fog which renders the little oil lamps worn by the miners useless at a distance of a few feet. The rock is so hard as to require blasting. Atlas powder being used, but crumbles ihto powder on exposure to the air. The entire output is transported to the mouth of the drift by a single mule hauling two cars on a tramway. The cars are hauled one at a time up an inclined plane into the "works" proper by steam power. The buildings are a hundred feet long, a single story in height. A new engine room, contain-ing a thirty-five horse power engine, replaced the one not long ago destroy-ed by fire. The largest pieces of rock are fed to a vibrating breaker of great weight and power to considerbly reduce the sand stone. These smaller stones, together with all not needing breaking, pass under a pair of broad iron wheels, each weighing 3,300 pounds, revolving in such a manner that one follows the other, water free-

ly circulating about them. The sand is now carried by a sheetiron strainer from which the coarser particles are returned to the crusher. It is then washed in inclined wooden troughs, being forced upward against descending streams of water by means of the Archimedes screw, a principle much in use throughout the building. A continuation of this process results in depriving the now clean sand of most of its moisture. After draining on a sloped floor it is wheeled into several driving machines, some using hot air and others steam as the dry agent. Archimedes screws bring the dried sand to the foot of an elevator, where it is carried up in small triangular buckets to the top, from whence it is poured into wagons, hauled in sixmule teams to the freight depot, nearly a mile distant, and transported to Pittsburg, Indiana county, West Virginia, and occasionally across the At-lantic. The power by which the ma-chinery is run is furnished by the canal a thousand feet distant. A large turbine wheel connected with iron ropes running on large wooden wheels in two towers, transmits the force necessary to operate one set of crusher, while the engine runs another. Both sets can use canal power when, for any reason, the engine fails to work. The works have doubled their capacity during the past year, and if the Pennsylvania railroad company build the line now in prospective, across the river, the out-put will be increased.

REVIVE AND ORGANIZE CLUBS, ETC .-This is the season for reviving and organizing Farmer's Clubs and similar institutions. Some one well says that if farmers would keep up with the spirit of the times they must meet together and discuss the important questions that the age presents. There is no bet-ter school for farmers than such organ-izations offer. Valuable information can be acquired, and the practice of speaking in public is self improving. Every school district should have a debating society of some kind to keep its inhabitants wide awake, seeking to be posted on all the issues of the day. Such societies have an excellent influence on the young. Here the young orator gets his first lessons and acquires confidence to express his thoughts Speaking is an art acquired only by practice, like all other arts, the earlier through France, Germany, Norway a life this practice is had the more eas-

The Depth of the Sea.

western part, 2,000; the Mediterranean, east of Gibraltar, 3,100; off the coast

Hope, 15,000.

The basins of the Southern Hemisphere dip and rise alternately from the equator toward the poles, causing very unequal depths of water. Captain Ross's famous experiment in this way s probably familiar to all. By throwing over a heavy weight to which a small line was attached. he succeeded in penetrating about 27,000 feet when the weight broke off without touching the weight brock in the best been reached, and this have of late been reached, and even during the exploration of the Gulf Stream under Maury, soundings of the ocean were made to the depth of 34,000 feet, or more than six stational materials and binding, justifies the publishers in regarding it as one of the most incomplete the publishers in regarding it as one of the most materials. of 34,000 feet, or more than six stat-ute miles—a vast depth, indeed, and greater it may be said, than the eleva-tion of any mountain above the sur-

The Mormons Must Go.

A CONSTITUTIONAL AMENDMENT PROBLE ITING POLYGAMY.

General Rosecrans, member of con gress from the San Francisco district. has prepared the following measure which he will introduce in the house of representatives at the earliest possible opportunity after its organization : A joint resolution proposing ar

United States prohibiting polygamy: Whereas, in pursuance of a duty to guard the development of that large and more rational liberty for every unit of society and that higher civilization which consists in the domination of reason and justice over the passions by needful constitutional amendments and provision we have forever prohibited such things as reason and experience have shown to be hostile or impeding to such developments and amongst them the slave trade and even slavery itself ; and

Whereas, Polygamy, condemned for s contravention of reason, its degradng influence on the character of the female sex. its brutalizing effects on the male sex and its general repugnance to the spirit of modern progress has always been considered so unlikely to be tolerated amongst us that no constitutional prohibition of it has hitherto been deemed necessary to prevent its growth under the protection of state and territorial law; and

that religion sanctions and the United bart, Hovendon, Smillie, Nicoll, Satter States allows the practice of polygamy, lee, Fenn and others, and from an and to diffuse the poison of this barbarous practice through the Territories of as one of the choicest books of the ten feet wide, and running the one eight hundred feet, the other six bun dred feet in opposite directions, yield over four hundred tons of snow white, erties of the inhabitants thereof, and to like the control of the property of the future well being and the like, uniform with the author's popular like of Long of Lon silicious sand for the manufacture of the interests and good name of the Life of Longfellow, is an appreciative

assembled, be it Resolved, That pursuant to the provisions of article 5, constitution of the United States, the following amendment to said constitution be and the same is hereby proposed for ratification by the legislatures of the several states, to-wit: Amendment XVI, Section 1.—Polygamy being incompatible with our civilization of many propular results of the several states, to-wit: The popular results of the several states of the several states, to-wit: Several states of the several states of this by appropriate legislation.

copies of this joint resolution to the ed.

A Triumph for good Literature.

who have resolutely resisted all temp- cents.) tations in the more lucrative direction of that which is simply sensational, an honorable place may be claimed for D. Lothrop & Co., Boston, who have accomplished in the United States a work second to that of no publishing house from the pen of Mrs. C. M. Livingston, in the elevation of the popular sentiment, and the creation of a demand for wholesale books.

all essential qualities.

esting items called from the American Bookseller, and other sources.

Poets' Homes. A beautiful holiday book, edited by R. H. Stoddard, Artherefore a superb holiday book. book, edited by R. H. Stoddard, Arthur Gilman, and others, with illustrated sketches of Longfellow, Whittier, Lowell, Bayard Taylor, and all leading American Poets. (8 vo. cloth, gilt therefore a superb holiday book.

It is not enough that the older children should have Wide Awake, and the youngest Babyland, but the "betweens" must be provided for, and In The Poet and the Children, for

which John G. Whittier contributes the opening poem, Matthew Henry Lothrop has collected the choicest poetry for young folks any where to be found. The volume has a profusion of choice illustrations from drawings by Sand ham, W. Parker Bodfish, Miss L. B. Humphrey, Miss Northam, Jessie Cur-tis Shepherd, and a score of other ar-

tists equally deserving of mention
In The Kingdom of Home, with
its beautiful illustrations and elegant
binding, Mr. Arthur Gilman, with excellent judgement, has gathered the best of the poems that relate to the "Kingdom" which he has in mind; and since the most beautiful of all songs have been inspired by the love which

rocco, antique gilt, \$9.00.)

Praise of anything from the pen of George McDonald is superfluous, but of his new novel, Donal Grant, publish ed from the manuscript by D. Lothrop & Co., and republished in England, those who have read it in manuscript is worthy of study. say "it is a work of genuine power, with characters pleasant to know, and an indescribable moral quality penetrating the whole." (12mo. \$1.50.)

Of A Family Flight through Spain, it is sufficient to say that it possesses all the rare charm of description, the piquant style, the novelty freshness which characterize the Flight and Switzerland, and the Flight over

happily chosen and well executed.
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Luthera Whitney has appreciated the need of a book which should serve as a mirror of early New England tines, and has supplied it in a delight

ful little volume, entitled Old Times, Days and Ways; and to make the book complete, W. Parker Bodfish has contributed sixty-two capital homestead drawings. Carrie A. Cooke, in Blossoms by the

Way, presents a collection of poetry for young folks, which, with its dainty binding, its artistic colored border designs by Sweeney, and its choice con-tents, is sure to please the boys and girls of ten and over. Its seven hundred pages are brightened by many fine engravings, and the selection of the subjects has been most happy. (4to, decorated cover, gilt edges, \$3.00)

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That the veriest babes can be made to take an interest in literature has clearly proved by the continued success of the lively and delightful little magazine published for their sole benefit by D. Lothrop & Co. Babyland, among the tiny ones of the nursury circle, is becoming as great a favorite as Wide Awake and Little Men and Women, among the larger boys and girls. The Babyland Annual, consisting of the monthly numbers handsomely bound, will gladden the heart of every little one into whose hands it may

state and territorial law; and

Wheras, The absence of such prohibition has enabled designing men under pretense of a new revelation from heaven, to appeal to the interests and passions of poor ignorant people at Color Exhibition in New York, by well-home and abroad and to teach them

accordingly. (12mo, illustrated \$1.50)

The ripest thought of Rev. J. M. Manning, D. D, the late beloved pastor of the Old South Church in Boston, is furnished in the last works of his hands, Not of Man, but of God, an admirable treatise upon the foundation and structure of the Christian faith. The popular reception of Jewett's

with our civilization, is forever prohibited in the United States, and all places the continued interest of a wide circle under its jurisdiction. Section 2.— of American readers in the choicest Congress shall have power to enforce classical writings, and in evidence that efforts of translators and publishers to Resolved, That the secretary of state present these writings in new and at shall promptly forward authenticated tractive forms, are not unappreciat-

Decorative Plaques, in which the picturesque designs of G. F. Barnes are set to a harmony of words by Mary E. Wilkins, is a book which appeals to all Among the publishers who have car- lovers of illustrated poems, and which ried into their work serious convictions will be welcomed by amateurs and as to their duty to the public in the professional decorators. (Chromo matter of supplying good literatare, and cover, 75 cents; unique binding, 50

Among holiday gift books, D. Loth-rop & Co.'s beautiful annuals have come to be regarded as standard favo-In a general way, the public are fa-miliar with the aims of this house, and have come to regard its imprints upon and which never fail to fall pleasantly a book as a guarantee of excellence in on their ears, Wide Avake is certainly Il essential qualities.

One. To fully appreciate the surprising excellence of this magazine, it must be cations, we present the following interclass, at home and abroad. It will be found to be unequalled. The Wide Awake Annual, in its dainty dress, is

this is what that charming monthly, Our Little Men and Women, accomplishes to their perfect satisfaction. One secret of the success of D. Lothrop & Co.'s juvenile production is due to the fact that they so amply and completely provide for the needs of children of

every age. Among books for children which will instruct while entertaining, the following selections from D. Lothrop's list, published in handsome quarto volumes, with illuminated board covers, are unrivalled. "What the Seven did," "Nan, the New Fashioned Girl," "Heart's Content," "Stories and Pictures of Wild Animals," "My Curiosity Shop," "Natural History Stories," "The Cats' Arabian Nights," and "Lucy's Wonderful Globe." Among the writers for these books are such celebrated authors as centres in the home circle, it is not much to say that this is a collection of the best of all songs. (Extra cloth, beveled gilt edge, \$6.00; Turkey morocco, antique gilt, \$9.00.)

Believed authors as Margaret Sidny, Miss Yonge, Julia A. Eastman, Ella Farman, Mrs. Diaz, Clara Doty Bates, and Mrs. Muskell. Of their unequalled list of handsome quarto volumes for the young, at the low price of fifty cents and less, and their unequalled Sunday school libra ries, we have not space for description.

> Miss Hanson, the belle of Maple Park, Ill., hanged herself in a corn crib on Wednesday last, because her lover was addicted to whisky and her father would not let her marry him. She left a note saying she was broken-hearted and hoped to meet her lover in heaven.

Their catalogue, which will be sent free

Weston, the pedestrian, has under taken a new task in England. He proin life this practice is had the more eas ily is the art acquired. By all means organize socisties of some kind in every school district in the country.

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passed in that sort of restlessness which nearly crazes a man, or in a kind of stupor, haunted by

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re for other troubles, I triod it also for this. The result both surprised and delighted me. My nerves were toned to concert pitch, and, like Caesar's fat men. I fell into the ranks of those who sleep a nights. I should add that the Tonte speedily did away with the condition of general debility and dyspepsia occasioned by my previous sleeplessness, and gave me strength and perfect digestion. In brief, the use of the Tonic thoroughty re-established my health. I have used Parkers's Tonic with entire success for sea-sickness and for the bowel disorders incident to ocean voyages."

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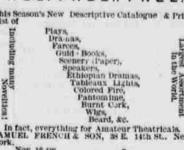
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RAILROAD TIME TABLE.



Pennsylvania Railroad.

Philade'phia & Erie R. R. Divis-

ion, and Northern Central Railway.

TIME TABLE. EASTWARD,

9.35 a. m., Lock Haven Express (daily except Sunday), for Harrisburg and intermediate stations, Lancaster, Philadelphia, New York, Baltimore and Washington, arriving at Philadelphia 3.15 p. m., New York, 6.20 p. m.; Baltimore, B.10 p. m.; Washington 6.55 p. m., through passenger coach to Philadelphia.

1.55 p. m., Day express (daily except Sunday), for Harrisburg and intermediate stations, Lancaster, Philadelphia, New York, Baltimore and Washington, arriving at Philadelphia 7.55 p. m.; New York, 10.20 p. m.; Baltimore, 7.20 p. m.; Washington, 8.45 p. m. Puliman Parior car through to Philadelphia and passenger coach through to Philadelphia and Baltimore.

8.20 p. m.—Williumsport Accommodation (daily) for Harrisburg and all intermediate stations, Lancaster, Philadelphia and New York, arriving at Philadelphia 7.55 a. m.; New York 9.10 a. m. Sleeping car accommodations can be secured at Harrisburg for Philadelphia and New York on Sundays a through sleeping car will be run; on this train from Renove to Philadelphia. Philadelphia train from Renove to Philadelphia passengers can remain in sleeper undisturbed until EASTWARD,

passengers can remain in siceper undisturbed until 7 a.m.
2.10 a.m.—Eris Mail (daily except Monday) for Harrisburg and intermediate stations, Lancaster, Philadelphia, New York, Baltimore and Washington, arriving at Philadelphia, 7.50 a.m.; New York, 11.90 a.m.; Washington, 8.50 a.m. Through Fullman sleeping cars are run on this train to Philadelphia, Baltimore and Washington, and through passenger coaches to Philadelphia and Baltimore.

WESTWARD.

6.20 a. in.—Eric Mail (daily) for Eric and all intermediate stations with through Pullman Palace
car and through passenger coaches to Eric, and
through Pullman Palace cars to Buffalo via Emporium. On Sundays this train will run only to portum. On Sundays this train will run only to Renovo.

For Canandalgua and Intermediate stations, Roches er, Buffalo and Niagara Falls, daily except Sundays) with the ough Pullman Palace car and passenger coaches to Rochester.

1.05 p. m.—Niagara Express daily except Sunday for Kane and intermediate stations with through passenger coaches to Kane. For Canandagua and principal intermediate stations, Rochester, Buffalo and Niagara Falls with through passenger coaches to incinester.

3.45 p. m. Fast line daily except Sunday for Renovo and intermediate stations, and Elmira, Watkins and intermediate stations, with through passenger coaches to Renovo and Watkins.

THROUGH TRAINS FOR SUNBURY FROM THE EAST AND SOUTH.

EAST AND SOUTH,

Nlagara Express leave
Philadelphia, 7.40 a. m.; Baltimore 7.30 a. m. (daily
except Sunday) arriving at Sunbury, 1.05 p. m.
with through Pulman Parlor car from Philadelphia and through passenger coaches from Philadelphia and through passenger coaches from Philadelphia and Baltimore.

Fast Line leaves New York 8.00 a. m.; Philadelphia, 1.1.0 a. m.; Washington, 9.40 a. m.; Earltmore, 10.53 a. m., (daily except Sunday) arriving at
Sunbury, 5.30 p. m., with through passenger
coaches from Philadelphia and Baltimore, Philadelphia, 11.30 p. m.; Washington, 10.00 p. m.; Baltimore, 11.29 p. m., (daily) arriving at Sunbury 6.15
a. m., with through Pullman Palace Siepeling cars
from Philadelphia, Washington and Baltimore and
through passenger coaches from Philadelphia. EAST AND SOUTH. through passenger coaches from Padladelphia.
SUSBURY, HAZLETON & WILKES-BARKE RAHLEOAD
AND NORTH & WAST BRANCH RAHLWAY.
Mail East leaves Sunbury (daily except Sunday)
6.45 a. m., arriving at Bloom Ferry 7.41 a. m.,
Wilkes-barre 9.20 a. m.
Express East leaves Sunbury 5.35 p. m., arriving
at Bloom Ferry 6.31 p. m., Wilkes-barre 8.10 p. m.
Mail West leaves Wilkes-barre 10.39 a. m. arriving
at Bloom Ferry 12.01 p. m., Sunbury 12.55 p. m.
Express West leaves Wilkes-barre 5.30 p. m., arriving at Bloom Ferry 7.07 p. m., Sunbury 8.05 p. m.

CHAS. E. PUGH, J. R. WOOD, Gen. Manager. Gen. Passenger Agent. DHILADELPHA AND READING ROAD ARRANGEMENT OF PASSENGER

TRAINS. Nov. 5, 1883 TRAINS LEAVE SUPERT AS FOLLOWS(SUNDAY EKCHPTED.

Por New York, Philadelphia, Reading, Pottsville
Tamaqua, &c., 11,45 a. m.; For Catawissa, 11,45 a. m. 6.13 and 10.30 p. m. For Williamsport, 6,35 11.45 a. m. and 4,06 p. m. For Lewisburg and Sunbury, 4 06 p. m.

TRAINS FOR RUPERT LEAVE AS FOLLOWS, (SUNDAY EXCEPTED.) Leave New York, via. Tamanend 9,00 a. m. and via. Bound Brook Route 7,45 a. m. Leave Philadelphia, 9,50 a. m. Leave Reading, 11,55 a. m., Pottsville, 12,50 p. m. and Tamaqua, 1,35 p. m. Leave Catawissa, 6,30 11.05 a. m. and 4,00 p. m.

Leave Williamsport, 9,48 a.m, 4.05 p. m. and 6.00 p. m Leave Sunbury 4.24 p. m. Lewisburg 4.48 p. m. Passengers to and from New York, via. Tamamend and to and tros.

J. E. WOOTTEN, end and to and from Philadelphia go through C. G. HANCOCK, General Man General Passenger and Ticket Agent. Jan. 10, 1881—11.

DELAWARE, LACKAWANNA AND BLOOMSBURG DIVISION.

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