THE TRUE WITNESS AND CATHOLIC CHRONICLE.

BOOK AND JOB PRINTING	CATHOLIC NEWS.	IRISH NEWS.	SCIENCE.	FARMERS' COLUMN.
BOOK	CARDINAL MCCLOSEST The magnificent bequest	MR. BRYAN, M. P., It seems, does "not think	CONING COMETSEncke's well-known periodical	STOCKSStocks should be well protected, and
and the second sec	of nearly three hundred thousand dollars has been left to Cardinal McCloskey by the late Mrs. Catherine Marrill of Nearly	the Parliamentary game worth the candle it con- sumes."	comet will be in perihelion again about the end of	clent supply of folder and litter in the barn and
BLANK ACCOUNT BOOKS,	meeting of New 1 ork.	SUNDAY CLOSING Almost the first public act of	July, 1878, and a small comet, discovered by He:r Tempel in 1873, and which appeared to move in an	over the stables and sheds for present use.
ò	APPOINTMENT-His Eminence Cardinal Cullen has appointed the Very Rev. P. O'Donnell, P.P., Anamoe, Archidescon of Clunck in Control of Clunck in Clunck in Control of Clunck in Clunck in Control of Clu	Lent latter in anomal at the flue de- at later - more	elliptic orbit with a period of about five years, will	HINTS FOR WORK In fall plowing don't let the plow rust in the furrows. So long as there is any
GET AN ESTIMATE	have been for many years neet groupfully and office	ment,	be due to pass its perihelion about the same time.	plowing to be done, let it be done at once and an
FROM	ciently discharged by the late lamented and vener- able Archdeacon R dmond.	RELIEF FOR THE FAMINE-STRICKEN.—From a pas- toral issued in the archdiocese of Dublin it appears	SUN SPOT OBSERVATIONS — The increased atten- tion which has recently been given to the investi-	wash, the moldboard and share, and not it away in
" Drinting & Publishing Co	CATHOLIC UNIVERSITY OF ANGERS - We read in the	that the £2,000 forwarded by the Cardinal, as the	gation of solar phenomena and their possible con-	the tool shed.
Lovell Printing & Publishing Co.	angers has	or Madras, has elicited a letter of hearty thanks	nection with the changes and periodical deficiencies of rainfall, has induced the Secretary of State for	ToolsGather up all the tools, clean them, coat the wood work with crude petroleum, or some com-
ACCOUNT BOOK AND GENERAL BOOKBINDERS,	Unemistry and itural Economy. It is stated that	from that prelate. The money was for the relief of the famine-stricken.	India to sanction arrangements for the photegraph.	mon lead and oil paint, and store them in their proper places. Tools will last twice as loug if thus
23 & 25 ST. NICHOLAS STREET,	this excellant institution is due to the feconde initia- tive of his Lordship the Bishop of Angers.	A WOMAN 105 YEARS OLD -At the meeting of this Board on Tuesday, it was announced that an	ing of daily views of the sun's disc at some station	kept. Whatever preparation is needed for winter
MONTREAL,	'The CARDINAL-ARCHBISHOP OF WESTMINSTERThe Cardinal-Archbishop of Westminater is still in	old woman named Alice Hewston, who has arrived	to be hereafter determined upon in India. These arrangements are provisional for the period of two	should be begun now, or before snow falls. A lit- tle foresight saves much trouble.
FOR YOUR	rails, where he has been detained by an attack of	at the patriarchal age of 105 years, had been sent from the Birrow-in-Furness Union, by order of the	years, during which time the negatives secured by	THRASHING A two horse tread-power and thrash-
Account Books and Job Printing.	bronchitis. But we rejoice to be able to announce that the illness has for some day's been passing off;	magistrates there, to the Armagh Union, within	two daily photographs (where possible) will be sent to England for examination. There is no probabi-	ing machine will be found very useful. These machines are made very portable, and are easy to
Account Doorn	and although the attack has been severe it has not at any time been of an alarming character.	VALUE OF PROPERTY IN THE COUNTY DOWN OR	lity as yet of the establishment in India of a solar	be moved from place to place. As one set can do the work of several farms, money may be carned by
	SCOTLIND - The free Obrech of Faultand in t	Monday a farm in the occupation of Mr. John Mori-	observatory, as has been reported. AN UNEXOWN NARGOTIC Major R. S'uart, Port-	thrashing for the neighbors after the work at home
This Company have the very best facilities for turning out work in a superior manner and with dispatch.	ferment about the establishment of a Catholic Hierarchy. A resolution has been passed calling	acres, and held ander Lord Londonderry at £65 an-	an Prince, says :- I am tempted to notice a plant	has been done. With these machines thashing is done quietly and easily, without any of the "hurly-
They solicit a trial order.	the altention of ministers of the Church to "the im-	Finally, of Daily Watticock, for £1,522, or about £3	in the hands of a skilful practitioner, it will pro-	burly " of a hired set, and without waste of grain or
John Lovell,	portance of instructing the people in the true nature and bearing of the Romish system, as well as the	per nore. The farm is held without lease from year to year.	duce coma of any intensity or duration, or even death itself when so intended. The knowledge of	SALT SHOULD BE GIVEN REGULARLY It is a very
Managing Director. Montreal, Nov. 21, 1877. 15-1m	present movement by the vatican."	SENDAY CLOSING The Sunday Closing agitation	this plaut is confined to a few fumilies, who trans- mit the secret as an heirloom from generation to	effective preventive of disease; but it should be given moderately. One onnee for a horse, ox, or
Montreal, Nov. 23, 1077	BAVARIA AND THE HOLY SEE.—The Vocs della Verita gives an authorized denial to the statement	rangements have been made for holding, during	generation, and the heritage is highly prized, con-	cow, one dram for a sheep or pig, is a good daily
KANSAS FARMS	the by some Liberal journals in Rome, to the effect that the King of Bayaria left Munich without	the next two months, public meetings in support of Professor Smyth's hill in the principal towns	firming, it is thought, the power of miracle workers and priests. For the plant is in may ways used in	allowance. It is only safe to trust to an animal's instinct to choose its own supply, when salt is kept
- AND	receiving the new Nuncio, His Majesty on the evening of the 12th November gave audience to	North, South, East, and West. Two of those de-	aid of solemn imposture, superstition, and even crime. The power thus exercised is called 'wanga,'	constantly before it; otherwise, in its greediness, it will be apt to take too much. Taken in excessive
FREE HOMES.		monstrations have already taken place-one in Carlow and one in Londonderry-and both have	a word that inspires the African with awe and dread. The wanga-priest can throw into a death-	quuntities salt is an acrid poison.
Kansas display of products at Centennial surpassed all other States. KANSAS PACIFIC R. W. CO. offers largest	Nurcio accredited to Munich.	been as successful as had been expected.	like come, and knowing the moment of returning l	Roors.—Roots that have not been harvested may be suffered to grow so long as the weather is mild.
body of good lands in KANSAS at lowest prices and best terms. Plenty of Gov't lands PREE for Homesteads. For terms. Plenty of Gov't lands PREE for Homesteads. For	The First NexThe first Christian virgin whose name is recorded as having vowed herself to God.	Killkenny, has died after a short illness, at the	consciousness he will make a show of recalling to lite. If a burglary is to be committed he can, by	Late turnips will make considerable growth now
FREEFICOMEDS. Kansas display of products at Centennial surpassed all other States. KANSAS PACIFIC R. W. CO. offers largest body of good lands in KANSAS at lowest prices and best terms. Pleaty of Gov ² t lands PREE for Homesteads. For copy of "KANSAS PACIFIC HOMESTEAD," address Land Commissioner, K. P. Ray., Salina, Kansas. 10-13	made a profession of virginity, and received the veil, is St. Marcellina, who received the veil from	patriachalage of ninety. The deceased gentleman	moone of his art on to down alson and all to the	during the cool weather. As som as one or two sharp frosts have occurred these late crops may be
TURN TO LET-180 acres at Longue Point, 31	Pope Liberius in the Church of St. Peter. Rome on	popular figure throughout Tipperary, Kilkenny, and	forbidden ends in the same way. An experienced	taken up; but this is not likely to happen, unless in far northern localities, until the end of the
Juing Apply to F. AQUINN, 31 St. Jean Bapiste	gins" in the third century, and from the days of the	Queen's Counties, over which his practice extended. His social qualities, rare ability as a medical mar,	as an anæsthetic, would no doubt prove a valuable	mouth. Frozen leaves are injurious to cattle and
street, Montreal, or to Mrs. E. QUINN, on the premises.	apostles there have always been women who devot- ed themselves to chastity, poverty, and the service	and kindness to the poor endeared him to the com- munity among whom he lived and died.	acquisition to medical science."	should not be given to them, but carted to the compost heap.
NEW AND VERY ELEGANT PATTERNS OF	of their neighbor.	GRAND JURY The grand jury of the county Dub.	GERMAN COAL —Hamburg has been the scene of a rather uovel exhibition, t a of German (oil, which	HorsesHorses should be provided with blan-
N BRONZED and CRYSTAL		lin met on Monday in the grand jury room, Four Courts, and gave their formal sanction to the pro-	we are told, has excited much interest among Ger- man patriots and commercial men. The idea that	kets for use when exposed to storms. These may be procurd very cheaply, and their cost will be
GASALIERS, SETTEES,	Jarlath's College, Toam, appears in the Irish papers in acknowledgment of the gfft of Father	posed central tramway scheme, under which tram-	Germany should endeavour to emancipate herself from the Eng ish market and produce her own coal	saved more than once or twice during the winter. We do not approve of using blankets in the stable.
TABLES and STOOLS for GARDENS,	Burke's learned volume on the Eastern origin of	George's street and Harrington street to Harold's	has, it appears, acquired a powerful hold upon the	however cold the weather may be. This practice
New Designs.	premier pays a graceful tribute to the learning of	street to Ranelagh and Clonskeagh. The grand jury	development of the German coal trade has come to	makes the horse more consitive to cold when brought out. Blackets are for use only to protect
UNION WATER METER CONMPANY METERS AT CHANTELOUP'S	the gifted ecclesiastic, and to the antiquity of	also approved of the bill to construct a tramway line to Blackrock.	be looked upon as a matter of patriotism. It is also alleged that Westphalian coal is superior in	against unusual exposure, and when the horse is warm.
	of Etin.	VALCE OF LAND IN THE COUNTY LOUTH-OR	heating power to English, and Senator Godeffroy.	BoonsRoots that have been gathered should be
E. J. O'FLAHERTY & BODEN),	INAUGURATION.—The inauguration of the monn- ment to the "Patriots" killed at Mentana in 1867	Thursday last Mr. George Butterly, auctioneeer.	in his address on the occasion of the opening of the exbibition, even made it appear that Germany is in	made secure in the pits before the cold weather comes on. Look out that there is ample ventila-
(LATE OF OF LINEATY & BODES), HATTER AND FURRIER,	was celebrated on Sunday by a great multitude form	land, belonging to Mr. Henry Kieran, at Termon-	possession of coal fields incomparably larger than any that England can show. The Westphalian	tion from the bottom to the top of the heans.
221 McGILL STREET, (TOUPIN'S BLOCK).	aright, the " patriots" crossed the frontier in defiance	feckin, county Louth, containing about 27 acres, at the yearly rent of 161, held under the Rev. Wil-	coal basin alone, said M. God froy, is capable of producing for seven centuries to come the same	Three cornered spouts, with a number of holes bored in each, to admit air, may be put every 8 or
Oct 10, '77 9-12	of their own laws and gendarmes, and in violation of a treaty entered into by their Government with	liam Brabazon, for the life of Wallop Brabazon, Esq. The bidding reached the sum of ± 355 , at	quantity of best coal annually that all Eugland	10 feet apart in a long pit, or one for each small pit. These will carry off the heated air
BOOTS & SHOES.	France. If they fell at Mentana or elsewhere, it was because they were marauders who had to be disper-	which own Ma Edward Namia of Dellandson and	now yields, and beyond this the basin is not yet fully explored, and is probably capable of material	which arises in all newly made pits of any sort of roots, which would cause rotting were its escape not
	sed by chaasepots and bayonets.	A PR^TESTANT ARCHEISHOP.—The Protestant Epis-	extension. With all these supposed advantages Germany has not yet been able to beat England	thus provided for.
FOGARTY & BRO.,	CARDINAL MANNING The Roman correspondent of La Defense says Cardinal Manning's last work on	copalians in Scotland, says a London correspondent.	out of the field on her own ground. The City of Hamburg imported in 1876 about 1,509,000 tons of	CONS-HUSKING With the use of machines, and the need for economy in every form of labor, all the
BOOT 5 SHOE MANUFACTURERS, 245 St Lawrence Main Street,	the independence of the Holy See has been much talked of, both in the religious and political world.	on that country with a very mild measure. As Lord	coal, of which about six-sevenths were the produce	so-called "poetry of farm work" has disappeared.
CORNER ST. CATHERINE STREET,	A short time after the book appeared in England,	by making Queen Victoriaan empress, so the Scotch	of England, and only one-seventh of home produc- tion.	The old fashioned corn-huskings in the barn will soon no more be held, and along with it the old-
W. E. MULLIN & Co.,	Signor Bonghi, former'y Minister of Public Instruc- tion aud author of several remarkable articles in	bishops propose to overawe the Pope by making one of their number an archbishop! The corres-	VEGETABLE REMAINS IN EGYPTIAN MUSEUM There	fashioned festive "harvest homes," will be soon only remembered in story. These homely frolics
MANUFACTURERS AND DEALERS IN	the Nineva Antologis and the Revue des Deux Mondes, collected those articles in a volume which he pub-	pondent, rather irreverently, adds that the one step, is	are published in the Zeitschrift fur Ethnologie, under the editorship of Profs. Magnus and Ascherson, the	must give way to more sedate and less costly labor.
BOOTS AND SHOES.	lished under the title of " Pius IX, and the Future	CENTRAL TENANTS' DEFINCE COMMITTEEA meet-	notes of a lecture delivered some years ago on the above by the late Prof. Braun, of Berlin. The in-	and now the souner the corn-husking is out of the way, the better. The fields should be cleared at
14 Chaboillez Square, near G.T.R. Depot,	Conclave." CATHOLICIEM IN BELGIUMThe Liberal and anti-	ing of this body was held yesterday at 19 Upper Sackville street Patri & Cummings Eso PLG in	ducements to take up this subject was supplied by	once, and when everything is under cover, there will be time for more comfortable frolicking in-
MONTREAL. WE KEEP IN STOCK and MAKE TO ORDER THE LATEST	Clerical party in Belgium are seriously disturbed by the extraordinary increase in the number of con	the chair. Communications were received from	the discoveries made by Heer that the flax found in the Swiss lake-dwellings does not belong to the	doors.
FRENCH, ENGLISH AND AMERICAN STYLES.	verts to Christianity in that country. In 1846	several parts of the country with reference to con- vening a meeting of the representatives of the far-	now generally cultivated species Linum usitstissimum, L., but to L augustifolum, Huds., a species which is	RULES FOR HEALTHRules for health for animals, are very simple and plain, and need strict observance
ROLLAND, O'BRIEN & CO.,	there were 137 religious houses for men, and 642 for women, containing in all 11 963 occupants. In	mers' clubs during the recess. On the motion of	not cultivated now, but may be found growing wild in this country, France, and the Mediterranean	at this season. Observe herfoot algentingen in stable
LU MANUFACTURERS OF	1856 the number of religious houses had risen to 1,323, and they have continued to increase. Im-	it was unumously resolved to convene a meeting	region. As Heer is inclined from several reasons	the skin clean; use only clean water for drinking :
BOOTS AND SHOES,	mease real estate is now held by those institutions.	Ireland at Dublin on the 18th December, to de-	to beli :ve in the African origin of the cultivation of this inhabitant of the lake-dwellings, it was an	keep the body and the lodging places dry, and not too warm : let them breathe only pure air ; eat only
333 ST. PAUL STREET, MONTREAL.	The Carmelite women have built a house on their estate at Chevremont at a cost of 200 000 dols.	cide upon the best way to advance the cause of	interesting question to solve whether the flax cul-	nutritious and digestible food, and not too much of

BOOTS AND SHOES, 333 ST. PAUL STREET, MONTREAL. A Large and Well-assorted Stock constantly on hand 1-38-y May 2, '77 RICHARD BURKE, Custom BOOT and SHOE-MAKER, 659 CRAIG STREET, (Between Bleury and Hermine Streets) Montrcal. ALL ORDERS AND REPAIRING PROMPTLY ATTENDED TO W. STAFFORD & Co., WHOLESALE MANUFACTURERS OF BOOTS AND SHOES, No. 6 Lemoine Street, MONTREAL, P. Q. 1-41-y May 23, '77. MULLARKY & CO., MANUFACTUREES OF BOOTS AND SHOES, NO. 8 ST. HELEN STREET, MONTREAL 1 38-7 May 2, 177.

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estate at Chevremont at a cost of 200,000 dols.

CATHOLIC UNIVERSITY OF TOULOUSE .- The inauguration of the Catholic University of Toulouse has been celebrated with great solemnity. There were present the Archbishors of Toulouse. Albi, Avignon, Versailles, and Mgr. Caraguel, Bishop elect of Perpignan, together with a number of persons of official rank. The sermon was preached by the Archbishop of Toulouse, and the inaugural address was delivered by the Rev Abbe Caussette, Delegate General of the Prelates of the South-west region of France.

PRIESTS EMPLOYED IN ROAD MAKING -By the laws of Italy all persons between the ages of 18 and 60 years, who are fit for labour' are liable to be called on to give four days' labour each year, or the equivalent in money, for the purpose of making new roads in districts where such roads are required. Under this law some of the local authorities in Italy insist on forcing priests and friars to work at the roads or pay a certain sum for exemption. Many of the plundered priests and members of religious orders are so poor as to be unable to pay for exemption, and are therefore compelled to work as labourers, although their education and habits are manifestly such as to render them utterly unfit for such employment.

CATHOLICIZING OF SCOTLAND. - A non-Catholic organ has pointed out that within the last few years there have been contributed by Scotland to the Catholic and Roman Church, among others the Marquis of Bute and the younger brothers of the Marquis of Lothian, the Duchess of Buccleuch, a Dowager Duchess of Argyll, and the Dowager Marchioness of Queensberry and Lothian. And that in June, 1876, there were two bundred and twentyeight Roman Catholic chapels, with two hundred and forty-eight officiating clergy, who had under their spiritual care three hundred and twenty thousand souls, composed chiefly of Irish, dwelling for the most part in the larger towns, such as Glasgow and Dundee. The Episcopal Church, in contrast to this, only musters seventy-three thousand two hundred worshippers, the great majority of the population belonging to the various Presbyterian

Kirks. SCOTLAND-A solemn Requiem Mass, for the repose of the souls of those who were killed by the pit explosion at Blantyre, was celebrated on Monday in presence of Archbishop Eyre, in St. Mary's, Hamilton. The church was crowded to overflowing and amongst those present were the Provost and some of the leading inhabitants. The Catholic widows and relatives of the deceased, dressed in mourning supplied by the clothing society organis-ed by the Rev. Stewart Wright, sat in front of the pulpit. A catafalque was erected in front of the altar which, with the wall behind, was draped in black. The Rev. F. Kerr, S.J, sung the Mass, the Rev. F. Ewerts acted as deacon, and Rev. J. Danaher, priest of the mission, took part in the service, and the Sisters of Charity from Lanark sung the dies irae and other music of the Mass. The sermon on the occasion was preached by the Very Rev. William J. Amherst, S.J., Rector. The service was brought to | ed to with marked attention, but visibly without Amherst, S.J., Rector. The service was brought to that warmth which it takes large numbers to com-a close by the Archbishop giving the absolution at that warmth which it takes large numbers to com-the catafalono. 1y-12 the catafalqno,

The Carmelite women have built a house on their | cide upon the best way to advance the cause of land reform during the next session of Parliament. Freeman.

> CONFERENCE .- The Belfast Conference met on the 23 ult., and has fulfilled the expectations which the announcement of it some time since excited. It was attended by a large number of representative men from various parts of Ulster, its proceedings were marked throughout by the utmost harmony, and its decisions cannot fail to have an excellant effect upon the future of the Home Rule movement in the Northern province. Thus an "Ulster Home Government association" has been established; a standing committee has been appointed to superintend the working of the branch associations; it is provided that this committee shall hold an annual conference in some town in Ulster; and, finally, steps have been taken to secure justice being done in the registration courts. At the public meeting by which the Conference was followed, speeches well worthy of attention were delivered, amidst enthusiastic applause, by Mr. Biggar, M. P.; Mr. John Ferguson, Dr. M'Closky, the Rev. M. H. Cahill and other gentlemen.

CAPTAIN O'BEIRNE, M.P., AND THE HORSE GUARDS .-The World says :- "The Horse Guards have, no doubt, made a very great mistake in passing over Captain O'Beirne, of the 2nd Dragoon Guards (Queen's Bays), for promotion. That officer entered the service in 1857, went through the Indian Mutiny campaign with his corps, and behaved exceedingly well during the most trying time. There is nothing in the world against him except that he is an M. P. and a Home Ruler. But if officers on full-pay are allowed to go into Parliament, surely they ought to be allowed to have the courage of their opinions. I am not an admirer of Home Rule principles, but the surest way of adding strength to that party is by behaving to its memhers as the military authorities have behaved towards Captain O'Beirne. Give Irishmen a gricvance and see whether they do not make the most of it. A more idiotic blunder than that of stop-ping the promotion of 'The Baye' because the senior captain is a Home Ruler has never yet been committed."

Home Rule IN BELFAST.-On last Friday evening, the Home Rulers held a conference in St. Mary's Catholic Hall. A great push was made to have the meeting of monster dimensions; the province was largely placarded, advertising to any extent was carried on, and some for the principal Home Rule talent was engaged for the occasion. Yet the con-ference was but sparsely attended. There was not more than six hundred in the body of the large hall. I cannot well understand this great falling off in the Home Bule crowd. Formerly, there could hardly be found sufficient room for the throng rushing to such meetings. I fear, the visit of Mr. Gladstone to Ireland has turned the tide of Irish politics to the side of the advanced Whigs. The chair was occupied by the Rev. Isaac Nelson, Presbyterian clergyman. Mr. O'Donnell, M. P., Mr. Biggar, M. P., Mr. Ferguson (Glasgow). Dr. McCloskey (Derry), and Rev. M. H. Cahill, C. C., addressed the meeting. The speeches were listen Lunicate, - Correspondent,

and all an all contracts from a part for the market a first start from the start and the set of the set of the

interesting question to solve whether the flax cultivated in ancient Egypt was the same as that of the lake-dwellings. The material for this investigation in the Berlin Museum was anything but cxtensive, on by three seeds of Linum being found. and it was not even certain that these were genuine remains. One, however, belonged to L. angusfolium, and the other two to L. humile, Mill. (L. unitatissimum, var. crepitans, Schubl, and Martens). As they were found mixed in so small a quantity with the seeds of two cultivated plants, Lactuca sativa Nagella satura, it was supposed that they might have belonged to weeds growing among these cultivated plants. This did not look promising. The oc-currence of Linum hum le was, however, interesting, as this species is the only one of that genus cultivated in Abyssinis, where, Schimper tells us, the fruits are used as food by the poor classes, and also as a Lenten food. Prof. Braun, thought it not improbable, all things considered, that this was the form cultivated in ancient Egypt. The doubt on this point may be soon solved, since old Egyptian seeds of Linam are known to exist in the Museum of Bul-q. This is only one of the many interesting cases dealt with in the course of the memoir

NERVOUS FIBRES AND STIMULATION .- The phenomena of exhaustion and recovery have been thoroughly studied in tetanised muscles; Prof. J. Berustein has recently investigated the corresponding phenomena in motor and Sensory nerves (Pfluyer's Archic, xv. 6 and 7). If an interrupted current from a Dubois Reymond's induction apparatus be sent through a short section of the exposed sciatic nerve in a frog, the teddo Achillis having been previously connected with a lever of a myograph, it will be found, after a time, that stimulation of the plexus higher up no longer causes the muscles of the leg to contract. The conducting power of the stimulated tract of the nerve is abolished. With time and rest it may be regained; but its recovery does not take place at a uniform rate. At first it is very slow and gradual ; it then goes on very rapidly for a relatively brief period; lastly, it enters on a third phase, during which its progress is once more slow, proceeding at a constantly diminishing rate as the nerve approaches its normal condition. The impairment of conductivity which results from the flow of a continued galvanic current through a given section of motor nerve has been ascribed to a variety of causes. It is really a kind of fatigue resembling that produced by interrupted currents. The process of recovery is gov-erned by the tame law in both cases ; hence it may fairly be inferred that the fundamental changes in the nerve fibre are similar in both. Bernstein next proceeded to investigate the phenomena of recovery in motor nerves after their conducting power had been exhausted by mechanical, chemical (dilute lactic acid), and thermal stimuli. The rate of recovery was found to obey the same law as before. On extending the enquiry to sensory nerves the same law was again found to hold good. The author then proceeds to discuss the facts in their theoretical aspect, and points out that the law deduced from them is fundamentally similar to that which regulates the recovery of organisms as a whole from the exhaution caused by fatigue or E R Val

too warm : let them breathe only pure air; eat only nutritious and digestible food, and not too much of that; keep them quiet, and do not suffer them to be irritated ; avoid exposure to cold, wet storms, and if this cannot be helped, dry the skin using considerable friction, with a coarse cloth, then cover with a blanket, but not before, and give a warm drink as soon as possible after it. When the system is fever-ish from cold, give a saline, cooling laxative.

3

rations for a horse may now be given safely. Our practice is to mix half a bushel of cut hay or fodder with three pounds of feed of oats, corn and bran ground together, for one feed for each horse. The cut hay is thoroughly wetted in a box, the meal is scattered over it, a bandful of all for each horse is added, and the whole is well mixed with the shovel. It is then divided equally. A similar custom provails in large stables, where hundreds of animals are kept; for economy and good results in every way, it can hardly be surpassed. If it is remembered that an animal which begins the winter in good condition is kept so more easily and cheaply, and will come out better in the spring, than one which begins it in poor order, and if this rule is acted upon few mistakes will occur.

Boxe FERTIRIZERS .--- The article entitled "Action of Fertilizers," in your issue of February 17th, gives the results of a very valuable series of experiments and deserves careful study. The eighth experiment is the one where the greatest gain is shown, amounting, as I figure it, to \$32 45, which is equivalent to a profit of very nearly \$60 per year per acre. This result is attained by the use of about 500 pounds per acre of ground bone drilled in with the seed. When sowed broadcast the gain was only \$26.60, giving us one more point in favor of drilling in fertilizers. We have often been told that the phosphoric acid must be made soluble before it is applied to the soil, but here we see better results from the use of raw bone than from superphosphate The reason for this may be, there are 102 pounds of phosphoric acid and 16 pounds of nitrogen in \$10 worth of bone, to 86 pounds of phosphoric acid and no nitrogen in a similar amount of superhosphate. The practical deduction to be made from this is that ground bone is the cheapest form in which phosphoric acid can be applied to the soil. I have recently made some examinations of ground bone, and give my figures on three samples from the same manufactory, which were labelled as below :---

Phosphoric Acid. Nitrogen. Pure bone flour..... 18.86 per cent. 2.89 per cent Pure ground hone,....22.03 do 4.40 do Ground horn piths...18.76 do 4.42 do Estimating the nitrogen as worth six times as much per pound as the phosphoric acid, these samples would be properly valued in the proportion, 36, 48 and 45. The bone flour is worth then only three fourths as much as the ground bone, while it is generally sold at the higher price, on the plea that it costs more to grind it finer. It is often largely composed of the dust swept up in the mill, and so contains many impurities. I am specially interested in this subject, from the fact that I am about commencing a series of experiments on a field recently set apart for the purpose by the college authorities, the results of which I hope to give you in 12 sector and a statistical data of the statistical statistical sector and statistical sector and sector se