Considerable anxiety has been evinced by stock-owners in the Provinces of Ontario and Quebec, concerning the sudden appearance upon their cattle of enormous numbers of a small blackish fly which irritates the animals so much with its bite and disturbs them so constantly that they fall off rapidly both in flesh and yield of milk.

This is the so-called "Horn-Fly" which has attracted much attention in the United States for the last three years. It is a European pest which was first brought to the notice of the U. S. Division of Entomology in September, where it has been known since 1830.

1880, its complete life-history was 1889, its complete lite-history was at out by Prof. Riley and his assist-lessrs. L. O. Howard and C. L. Mar-Th's was published in 'Insect Life', p. 93-103 and in the Annual Re-ef the U. S. Entomologist for 1889

to appreciate the losses they may suffer by neglecting this pest. Exaggerated statements of losses, and injuries to the animals which are quite impossible, have received free and extensive circulation by word of mouth, and through the newspapers. Cows are inaccurately said to have been killed by the flies, which, it is alleged, lay their eggs either on the horns into which the maggots bore and then penetrate to the brain, or "in holes which they eat through the hide, lay eggs therein, which hatch out in large numbers and proceed with their boring

The remedies are cheap, simple, and take the cow are touched and death ensues."

None of these statements are founded on fast. As stated above the complete lifether. They may be sharn worked out. I had the lifether than the later t None of these statements are rounced on fast. As stated above the complete life-history has been worked out. I had the good fortune to be in Washington, staying with Mr. Howard, in August, 1889, and was courteously permitted to join in his investigation of this matter. Together we visited some of the infested stock-farms in Virginia and secured living flies and eggs from which, later on, the perfect insects were rearred.

Section of the state of the sta

where the irritation cannot be allayed by rubbing, as inside the thighs and around the udder.

It is in the perfect state only that this insect is troublesome to stock; but it appears early in spring and lasts the whole season, successive broods following each other rapidly throughout the summer. Mr. Howard from the laying of the egg to the appearance of the fly, and as there are about four active breeding menths—from May 15th to September 15th—there is time for eight generations or broods. This rapidity of development will account for the flies appearing in such large numbers as to have attracted general attential simultaneously in many widely separated localities. There is no such large numbers as to have attracted general attential simultaneously in many widely separated localities. There is no

doubt that the pest has been present on our Canadian stock farms throughout the past summer, but has only now increased in sufficent numbers to alarm the owners. Prof. Robertson, the Dairy Commissioner for the Dominion, tells me that he has received an unusual numberof complaints this year offlies worrying stock, and these are in all probability attributable to this new importation, which brought into the United States only six years ago, has spread in all directions over many States of the Union and is now infesting our herds in Canada, is a serious matter, for it has been found that stock in infested regions have been so much tormented that animals fall off in condition very much, and the yield of milk is reduced in some instances from one-third to one-half. There are, however, several simple remedies which will, if attended to, greatly reduce this loss, and if all farmers would combine and use them, not only would their animals benefit in comfort but the owners would reap rich returns for their outlay.

outlay.

outlay.

These investigations were so thorough that there was little left for later observers to discover.

Prof. J. B. Smith, of New Jersey, also worked up the life-history independently, at the same time, and published an account of his work in Bulletin 62 of the New Jersey Agricultural Experiment Station.

The advent of this insect into Canada was first brought to my notice by Mr. Elmer Lick, of Oshawa, Ont., on July 30th last, when he stated that it had appeared in large numbers in that section of country and was causing considerable alarm. Since that date I have received specimens and enquiries from localities ranging from the extrements of Ostario to Boucherville, P. Q., some few miles east of Montreal. In all cases farmers seem to be thoroughly aroused and to appreciate the losses they may suffer by regiecting this pest. Exaggerated statements of losses, and injuries to the animals which are quite impossible, have received free and extensive circulation by word of mouth, and through the newspapers. Cows are inaccurately said to have been killed by the flies, which, it is alleged, lay their eggs either on the horns into which the maggots bore and then penetrate to the brain, or 'in holes which here with him here which hare no in the year. This shows the advantage of being prepared before the pest a many as possible before breeding comments and proceed with their boring operations until the wital nortions of the remedies are cheap, simple, and easi-very control of the control REMEDIES.

to the animals by keeping the meets biting them;

2. Active, the object of which is the destruction of the insects either in the perfect or larval condition.

I Preventive.—Under this heading I cannot do better than quote from the article by Mesrs. Riley and Howard in "Insect Life," Vol. II., No. 4, which reads as fol-

New Jersey Experiment Station. This costs about 25 cents a pound. When placed upon the cattle by dusting it through the hair, the flies will not remain long enough on the animals to bite them. Its effects last only

the files will not remain long enough on the animals to bite them. Its effects last only about two days.

Kerosene emulsion made as directed above, sprayed over the cattle, killed all the files reached and prevented others coming, as long as the odor lasted, which was from three to seven days

Remedies for the destruction of the perfect insects, are mainly useful upon the first appearance of the pest in a new locality, or early in the season for the destruction of the first brood. The best way to fight this enemy is by the treatment of the cattle droppings so as to destroy the eggs and larve. The maggots can only live in the dung whilst it is in a moist condition. Any means, therefore, which will ensure its drying up before the maggots are full grown, will destroy them. For this purpose lime, land plaster, and wood ashes have been recommended, and the last-named of these will probably be found the best, not only from its strong alkaline properties, which are destructive to insect life, but also from its great fertilizer, and from the further fact that it is easily obtainable on every tarm. If farmers could be only induced to keep this valuable material for application to their own land, instead of, as is too often the case, selling it to speculators at much less than its value to themselves, the benefit derived therefrom would much more than repay them for the trouble and expense even without considering the use for which it is now recommended. Messers Riley and Howard state that—"Throwing a spadeful of lime upon a cow dung will destroy the larve that are living in it. If the evil should increase, it will well pay a stock-raiser to start a load of lime through his fields occasionally, particularly in May or June, as every larve killed then represents the death of very many flies during July and August. We feel certain that this course will be found in many cases practical and of great avail, and will often be an advantage to the pasture besides."

I am of the opinion that Canadian wood ashes would be far superi

and will often be an advantage to the pasture besides."

I am of the opinion that Canadian wood ashes would be far superior to lime for the above purpose, and if neither of these materials were easily obtained, a good shovelful of dry earth or road-dust, would soon absorb the moisture necessary for the development of the larvæ.

What appears to me to be the most practical recommendation, is, that of Prof. J. B. Smith. He says:—"By sending a boyover the pasture every other day with a shovel to thoroughly spread out the cowdropings, all eggs and larvæ would be destroyed." I believe if this were done twice a week it would be sufficient, and would be equally effective in wet weather, when the substance would be washed away, as in hot weather when it is dried up.

"Sure, then," says Mike, "fut a hole in the other side and let it out again; I am going on with my sleep."

A Human Barometer.

Bellefonte physicians are puzzled over a barometrical sort of young lady of that place, who is of the most amiable and pleasant disposition in clear, sunny weather, but who gets ugly and morose when the clouds gather, and so unruly before a big storm that she has to be restrained.

Another omnibus turned over lately at Hyde Park Corner, London, injuring several persons terribly.

THE CAWING CROW.

Pursuivant of Spring, the Rear Gu rd of

Paraulvant of Spring, the Bear Cu rd of Beparting Autumn Birds.

Notthe robin's impatient yelp nor yet atting ed to happy song, nor the song sparrows thrill nor the bluebird's screne meloly, herald the coming of Spring; but attends its vanguard. These blithe musicians accompany the soft air that bares the fields, enpurpled the buds and fans the bloom of the first squirrel cups and sets he hyla's shrill chime aringing.

Preceding these, while the fields are yet an unbroken whiteness and the coping of the drifts maintain the fantastic grace of their storm-built shapes, before a recognized waft of Spring is felt or the voice of a freed stream is heard, comes that sable pursuivant the crow, fighting his way against the fiere North wind, tossed alow and aloft, buffeted to this side and to that, yet staggering bravely onward and sounding his trumpet in the face of his raging antagonist, and far in advance of its banner proclaiming Spring.

It is the first audible promise of the

In advance of its banks promise, of the Spring.

It is the first audible promise, of the longed-for season, and it heartens us though there be weary days of waiting for its fulfillment, while the bold herald is beset by storm and pinched with hunger as he holds his out-post and gleans his scant rations in the Winter-desolated land.

He finds some friendliness in nature ever He finds some friendliness in nature even now. Though her forces assail him with relentless fury, she gives him the shelter of her evergreen tents in windless depths of woodland: bares for him there a rood of sword or stubble whereon to find some crumb of comfort; leaves for him ungathered apples on the naked boughs, and on the unpruned tangles of vines wild grapes—poor raisins of the frost—the remnauts of autumnal feasts of the robins and partridges.

Indges.
Thankful now for such meagre fare and Thankful now for such meagre fare and eager for the fullness of disgusting repasts, in the bounty of other seasons he becomes an epicure whom only the choicest food will satisfy. He has the pick of the fattest grubs, he makes stealthy levies on the earliest robins' nests, and from some lofty lookout or aerial scout watches the farmer plant the corn and awaits its sprouting into the dainty tidbits, a fondness for whose swectness is his overmastering weakness. For this he braves the terrible scarecow and the dread mystery of the cornfield's lined boundary, for this risks life and ferfeits the good name that his better deeds might give him. If he would not be tempted from grubs and carrion, what a worthy bird he might be accounted. In what good if humble repute might he live, how lamented die.

O, appetite! thou base belly-denned demon, for what sins of birds and men art

demon, for what sins of birds and men action accountable!

In the Springtide days he turns aside from theft and robbery to the softer game of love, whereunto you hear the harsh vioic attuned in cluttering notes, and, having wood his mate, the pair begin house-build-

Poots—Oh, there's a confoundedly tender spot on my tongue from resting against a broken tooth.

"Humph! You're always grunting about something. Funny I never have anything like that the matter with my tongue."

"Nothing funny about it. Your tongue is never at rest."

People who write poetry "just to kill ime," will find that time will not be murdered by measure without retaliating.

The religion of to-day is the pocketbook. The more there is in it the stronger the

EARLY RISERS.

on of Earth Who Did Not Sice

Great M

Alfred the Great, whether as harper of the Great, whether as harper of the Great, whether as harper of the Great, always arose before dayint. Columbus devoted many hours of the Great of discovery: and many of Napoleon's most brillian campaigns were laid out in the early hour of the morning.

John Sohieski, King of Poland, one of the greatest warriors of the seventeenth cenury, slept only four hours. Stanislaus of Poland and Charles VII. were early risers Stanislaus retired at 9 and rose between and 4.

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In the reign of Henry VIII. seven o'clock was the fashionable breakfast hour, and tero'clock the dinner hour. Elizabeth dined a eleven and supped at five.

Paley, Priestly, Bishops Jewel and Burnet, Jeremy Taylor, Baxter, Wesley, Asbury, and Mathew Hale rose between four and five. Sir Isaac Newton devoted the early morning hours to study.

Peter the Great, whether at work in the

Peter the Great, whether at work in the docks of London as a ship carpenter or at the anvil as a blacksmith, or on the throne of Russia, always rose before daylight. "I am," said he, " for making my life as long as possible, and therefore sleep as little as possible."

Frederick II. of Russia, even in old age ever slept later than four in the morn

of Copernicus and his confreres were all distinguished and early risers, and the Duke of Wellington said if he hadn't been an early riser Waterloo might have claimed a different conquer.

early riser Waterloo might have claimed a different conquer.
Lord Brougham slept but four hours, yet few men accomplished more in the same period of time.

Sir Thomas Moore rose every morning at four. Washington, Jefferson, Monroe. Franklin, Webster, Clay, and Calhoun made it a rule always to rise early.

George Bancroft, the historian, even when an old man could be seen any fine morning on horseback or in his rose garden. William Cullen Bryant arose at five, and never worked at night. Washington Irving, Longfellow, Emerson, Oliver Wendell Holmes, Whittier, Whitman, Dickens, and Victor Hugo have each demonstrated by their lives and works the beneficial result of the custom.

of the custom. The "Grand Old Man" of England, Glad The "Grand Old Man" of England, Glad-stone, is often seen in his grounds around Hawarden castle while the dew is still sparkling on the well-kept grass.

Dean Swift says he never knew a man come to greatness and eminence who lay in bed of a morning."

Franklin says, "He who rises late may trot all day and not have overtaken his busi-

trot all day and not have overtaken his business at night.

The above are only a few of the many distinguished men whose names have come down to us as adherents to the axiom, "Early to bed and early to rise, makes a man healthy, wealthy, and wise."

The average duration of the lives of these distinguished early risers was about 79, nine years more than the allotted time.

The difference between rising at 5 and at 7 in the morning for the space of 40 years, supposing that a man goes to bed at the same time every night, adds almost ten years to a man's life. What wonderful possibilities might be comprehended in those ten years, what strides in science and art!

gineer in this country, and returns to his own country to practice his profession.

own country to practice his profession.

Railway bonusing is still popular in Canada. Recently Hamilton voted \$275,000 to the Toronto, Hamilton and Buffalo railway, and a few days ago Vancouver, B. C., decided to bonus the Burrard Inlet and Fraser Valley railway to the extent of \$300,000. Most of the municipalities in the Pacific province have placed a safeguard around the bonusing power by providing that a by-law to be adopted must receive sixty per cent. of the votes cast. If this rule had been applied to Vancouver the bonus would have been defeated, but through the absence of it the railway receives the gift.

ENGLAND AND AMERICA.

Plea for an Alliance Between the Two Nations—The United States both a Naval and Military Power.

Nationa—The United States is the National The Inited States will reach a hundred millions of English-speaking people, nearer to us in entiment and institutions than any other action can ever be, occupying a geographical position of supreme advantage, having with us a frontier line some 4,000 miles long and an increasing trade enormously greater than that interchanged by my two other States of the world. While Suropean countries stagger under a heavy and of debt, the United States find their reasury balances almost an inconvenience. In manufacturing power, in all that proves national vigor, the inheritors of our old colonies already surpass any State except our own, and their full development has yet to come. The amount of British capital nvested in that development defies estimate, and the inwoven interests of the kindred races have already reached a complexity which baffles the imagination. Money seeks investment in America as readily as if it were a portion of the empire, and no other markets act and react upon our own in the same degree. The mere existence of a state of war, apart from its actual operations, would inflict a deadly blow to the whole fabric of British commerce. The thing should be inconceivable. As Lord Overstone said of the occupation of London by a foreign army, "it must never be." The common sense of the many instinctively recognises this, without, however, fully realizing the utter disaster which such a war would entail; but the tacit recognition fails to reach the mind of the Foreign Office or to trace its impress upon the national policy. Meanwhile, the mind of the soldier, dazzled by the multitudinous glitter of German, French or Russian bayonets, is incapable of seeing either the paramount value of a friendly America, or the enormous potentiality for inflicting injury upon this country which exists beyond the Atlantic. Three thousand miles across the ocean mobilisation in the European sense is wholly superfluous, and the United States could without difficulty create, equip and maintain

Moreover, a change is rapidly coming ver the aspect of their foreign relations. 'Why," asked Washington in his farewell ddress, "by interweaving our desting with that of any part of Europe, entangle ur peace and prosperity in the tons of with that of any part of Europe, entangle on up eace and prosperity in the tons of European ambition, rive and in European ambition, rive and in evolution has dictated. The expansion of Great Britain and of Russia was not more inevitable than that the United States should take a leading place among the nations. Commercial entanglement has already grown up, with one European power at least, and the construction of a powerful sea-going navy is but one of several signs of what the dominant position which the United States has already attained we should be less inclined to resent occasional manifestations of a sentiment which, in the case of Germany or France, would be esteemed as more earrogance.

There is only one power which could

pared.

The work concludes with some interesting treatises on the game animals, birds, and fish of the province, in which the habits of the subjects treated are clearly set forth. The papers are illustrated, and will be found to be particularly interesting. Taken alterests. the papers are illustrated, and will be found to be particularly interesting. Taken altogether the report is one of the best submitted to the Government for some time, and it is to be hoped that good results will follow in its wake,

Even the most silent paragrapher is liable to make a noise ter joke now.

Say what you please, but the natural born fool gets the best of this world. Modesty is very becoming in c piri, tut it makes a man appear like a fool