

transplanting. The cabbage is much all summer and fall. stronger and much less likely to be club-footed.

SHOW A LIGHT.

by the collision of vehicles on the be raised on a few square yara of highways as we used to hear of, but soil. Then follow up with radishes, there are still many sections where the tops of which the hens will eat. there are yet no electric lights, es- Cabbages, turnips and beats are all and in such places, if one has to drive be fed in summer and winter. By carry a lighted lantern, more to show use we provide a most excellent winhave seen the time when the light make excellent food. The green tops the ordinances require lights on bi- in American. cycles, they should require them on carriages .- The Cultivator.

THE SILO AND ENSILAGE.

and says:

"We certainly think that a silo on be a flat failure with another. It is a 160-acre farm is a paying invest- said that the large Yorkshire is one ment, especially when the intention is of the most prolific of the breeds, yet to keep it heavily stocked with cattle plenty of individual cases are cn reand sheep. On such a farm enough silage should be put up to provide an to be more so, as well as where the ample supply for summer feeding. Yorkshire has fulfilled all the prom-Two years ago we ploughed up a ises made for it. portion of our pasture, put it in fodder corn which yielded fifteen tons upon how the individual breeders, of silage and seven tons of cured I'va male and female, are cared for, how der corn per acre. Allow a cow forty fed, exercised, sheltered, etc., and · pounds of silage per day; an acre economy of meat production depends furnished roughage for ten cows upon methods of feeding from pigseventy-five days. Had it been left hood up, upon pasturage, utilization for pasture it would not have furnish- of by-products of the dairy, as well ed roughage enough for more than as of grains; composition of feeds, one cow for that length of time .- In- regularity in feeding, careful watching diana Farmer.

HINTS ABOUT THE HORSE.

to do, and he will always do it.

air.

by bad shoeing.

One cannot expect to make money with chickens if all the food is to be bought. This is the mistake made by many beginners. It should be understood at the outset that farming of a certain order must be conducted along with the business of chicken raising. GROWING CABBAGE FROM SEED. There should be enough clover hay

Mark out your ground the desired raised to last the hens through the distance each way. Plant from six to winter, and an acre of good clover ten seeds in every check, scattering should be sufficient to feed the hens the seeds. When all danger of bugs with dry hay all winter. In addition is over, cut out or give away all but to this, one should clip the lawn one, the best plant. The expense of every week for the sake of the short seed is much less than the expense of green grass which the hens will eat

Green crops should be planted in the garden or field to supply the hens with green food through the spring,

summer and fall. One of the best Since the days of electric lights spring crops is lettuce. Plant the we do not hear of as many accidents large variety, and a great deal can pecially in the agricultural districts, good foods for the hens. They can on a dark night, it would be well to storing up enough cabbages for winter others that a team is approaching ter food for the laying hens. Potathan to show the road ahead. We toes, beets or turnips cooked in winter of a cigar was a warning to us to get of all these vagetables will do for out of the way, but the lantern would summer and fall. It may not pay one be a surer and cheaper way of warn- in the East to raise corn and wheat ing. The light is more needed in for the hens, but certainly all the these days of rubber-tired vehicles other food crops should be raised on than before, and, as in some places the poultry farm .- Annie C. Webster,

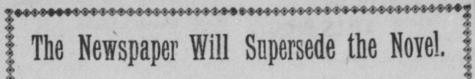
### THE MOST PROLIFIC HOGS.

The best hogs are those cared for in the best manner. Among the standard Professor Haecker, of the Minne- breeds of hogs the point of superisota Station, says that twenty per ority must be looked for in their cent of the nutriment of corn fodder keeper-it cannot be found, uniformis lost when compared with silage, ly, in the animals. A breed that is everything desired with one man may

cord where other types have proved

The fecundity of a breed depends of the effect of a given ration upon

each individual, and other details too numerous to mention. These things Teach a horse what you want him constitute the best hogs, the cheapest production, the largest profits and the Plaster scattered on the stable floor completest satisfaction in all respectakeeps down bad odors and purifies the Breeds have become more a matter of taste than anything else, and the Don't put your horse's feet in un- feeder is likely to do the best with the skilled hands. Good feet are spoiled style of hog he likes the best. The man who admires white hogs should You can influence the shape of a not raise black one; especially when, colt's legs by keeping the feet trim- as may be the case, the only differmed in the proper shape, the same as ence between them, under similar conditions, is their color. If one will use Have your horse's teeth dressed oc- any one of the popular breeds of hogs,



# By Jules Verne, Author of "Around the World in Eighty Days."

HE field of the romance writer of the future?

This question has been asked me and I am inclined to think that my answer will be astonishing in some respects. Where do I think the novelist of the future will seek the plots and environ ments for his novels?

I do not think there will be any novels or romances, at all events in volume form, in fifty or a hundred years from now. They will be superseded ent:rely by the daily newspaper. Evidences of this may already be seen in the Surcay newspaper, which has even now taken a firm grip on the lives of the most 2\*\* gressive people.

Yes, the novel, the descriptive story, the story historic and the story psycb. logical will all disappear. Their merit and their interest are fast declining. As historic records, the world will file its newspapers. Newspaper writers have learned to color everyday events so well that to read them will give posterily a truer picture than the historic or descriptive novel could do, and as for the novel psychological, that will very soon cease to be, and inside the present generation will die of inanition.

Understand me as being second to no living man in my admiration of the greatest psychologist the world has ever known-Guy de Maupassant-and he like all true geniuses, foresaw the trend of human ideas and needs, and wrote his stories in the smallest possible compass.

Each one of the de Maupassant soul-studies is a conectrated lozenge of psychology. The de Maupassants who will delight the world in years to come will do so in the newspapers of the day and not in volumes. They will crystal lize the psychology of the world in which they live by writing up the day-to-day events.

For the real psychology of life is in its news, and more truth-truth with a big T-can be gathered from the police court story, the railway accident, from the everyday doings of the crowd, and from the battles of the future, than can be obtained if an attempt is made to clothe the psychological moral in the gart of fiction.

Do I think that in the fulneess of time all battles must cease? No. Nature will always sway the world, and in swaying the world she must and will sway the sword. It is human nature to fight for supremacy, no matter how deadly the conflict may become.

Nor do I think, in returning to the writers, that there will be many more imaginative fantasies such as written by myself and H. G. Wells and a few others. The fantastic novel is on its last legs; it is gasping after extended runs, as they say. The future writer, even if he peoples Mars, the moon and other planets, can only do so upon human data until those planets are better known, of course. Even then the earth folk will be reading, not novels about Mars and the moon, but your Lunar and your Martian correspondents. Their work will be more interesting reading and more fresh than the stale imaginative story.

As for my own books, of which only eighty out of a hundred have been published thus far, they have simply been means to an end. I take no special pride in having written of the motor car and the submarine boat and the navigable airship before they became realities. I simply made fiction out of what became ulterior fact, and my object in so doing was not to prophesy, but to spread a knowledge of geography among the young is as interesting a dress as I, in my tailoring way, could fashion.

A Land Without	Interesting Notes
	on This Insect
House Flies	in Porto Rico

Past the 200,000 Mile Mark. For many years this country has led all others in the number of its railways and the total of their mileage.

The last six months have put the United States still further ahead in this respect. The railroad construction during this period carried us beyond the 200,000 mark of railway mileage.

The 2,314 miles added then increased our total railway mileage to 201,839. The record of the first half of this year is 500 miles ahead of that of the first half of last year.

The next six months will increase the railroad mileage of this country even more greatly than it has grown since the beginning of the year. It is estimated conservatively that the total railway construction in the United States for 1902 will exceed 6,000 miles, whereas the total construction for 1901 was 5,222. For the first half of this year the south and southwest still lead with 1,993 miles out of the total of 2,314 in the last six months. Texas built 236 miles, Oklahoma 211 miles, Indian Territory 211 miles, New Mexico 190 miles, Arkansas 136 miles, Georgia 125 miles, Louisiana 102 miles, Illinois 100 miles and Florida 97 miles.

This extensive railway construction indicates a vast increase of the industrial and commercial interests of the country and the splendid showing made by the south indicates that this section is progressing relatively more rapidly than any part of the United States .- Atlanta Journal.

## Meteoric Electricity.

We now know quite accurately the nature of lightning and the method of production of the enormous electrical pressure exhibited by the flash. When clouds are formed by the condensation of very minute drops of water from the vapor in the air, under certain conditions these drops exhibit a small electrical charge. As the drops coalesce the capacity increases less rapidly than the quantity of charge, for the reason that two drops of equal size, when they flow together, produce one of only slightly larger diameter. On this account the drops formed by the flowing together of the small mist particles, long before they attain such size as to be precipitated as rain, acquire an electrical charge of enormous voltage, sufficient often to leap a distance of a mile through the air. This must correspond with pressures only to be indicated by millions of volts .- Electrical Review.

## How Portland Was Named.

According to a writer in the New York World the city of Portland received its name under these circumstances: Two men named Pettygrove and Lovejoy were the first owners of the ground on which the city of Portland, Ore., now stands. Pettigrove had gone there from Maine, and Lovejoy rom Massachusetts. Pettygrove, out of admiration for Portland, in his own Portland. Lovejoy, being a Boston man, insisted upon calling it Boston. Unable to agree, they finally decided to toss a penny, the man getting heads to name the place. Pettygrove got 'he heads and named the place.

# COMMERCIAL REVIEW.

### Ceneral Trade Conditions,

R. G. Dun & Co.'s "Weekly Review of Trade" says: Prospects have greatly improved through the adjustment of numerous labor controversies, yet the anthracite coal strike situation is unchanged and supplies are nearing depletion. Distribution of merchandisé has met with some interruption owing to freight blockades, the volume of business being very heavy. Statistics of pig iron production, according to the 'Iron Age," are more satisfactory than might have been expected in view of the great scarcity of fuel. A weekly capacity of 336,465 tons is 15,599 tons less than the high record of May 1, it is true, but compares favorably with all earlier dates and shows an increase of 32,618 tons over the output a year ago. Southern furnaces have contracted so far in advance that they have practically withdrawn from the market and all dates for deliveries are remote except where foreign arrivals are offered. Pressure for steel is undiminished, and the urgency of domestic consumers is shown by additional imports of large size. Structural material is sought by car shops and bridge builders, while many office buildings and other steel structures are planned. Coke production in the Connellsville region exceeds 250,000 tons weekly, and outside ovens are also surpassing all records of activity. Yet shipments are unsatisfactory, causing frequent delays. Shoe manufacturers at the East have received practically all of the orders that will be placed, and new business is now restricted to sample orders in Spring, lines. Despite the very favorable reports from dry goods jobbers regarding the volume of business transacted, and the bright outlook for Fall trade, conditions in the primary market and at the mills are now devoid of incident. Buyers are still governed by the impression that a large cotton crop is asy sured, and the resulting lower prices or raw material will bring better terms or goods. Holders thus far have made lew concessions and consequently trading is dull, except in specialties. Considering the official report of cereal crop conditions the firmness of quotations during the past week has been somewhat surprising. Failures for the week numbered 196 in the United States, against 168 last year.

#### LATEST QUOTATIONS.

Flour-Spring clear. \$3 10a3.30; best Patent, \$4.50; choice Family, \$3.75. Wheat-New York No. 2. 75%;

Philadelphia No 2, 73a73% c; Baltimore No 2, 71%c:

Corn-New York No. 2, 64c; Phila delphia No. 2. 65a66%; Baltimore No. 2. 71c

Oats-New York No. 2. 65%c; Phila delphia No. 2, 50c; Baltimore No 2, 440

Hay-No. 1 timothy, \$19.00a19.50; No. 2 timothy. \$18.00a18.50; No. 3 tim othy \$17.00a17.50

Green Fruits and Vegetables .- Beets Native, per bunch 1c. Blackberries, Eastern Shore, per quart, 4a5c. Cabi ge-Native per 100 \$1.00a1.50; Wakefield, per 100, \$3.00a5.00. Cantaloupes-Florida, per crate 50cl \$1.00. Cucumbers-Charleston, per basket 12a20c; do North Carolina, 12a20a Eggplants, Native, per basket 55160c Huckelberries, per quart 6a7c. Lettuce, Native, per bushel box 30a50c Onions, New, per basket 80a90c. Peaches, Florida, per carrier \$1.0041.25 Pineapples, Florida, per crate, \$1.75a 2.50. String beans, per bushel, green, 30a35c; wax, 30a40c Tomatoes, Potomac, per six-basket carrier, fancy, 30 a35c do, fair to good 20a25c. Potatoes, Potomac, per brl, No 1 \$1 00a1 25; do, seconds, 75ca\$1 00; do, gulls, 50a60c; do, North Carolina, per brl, No 1, \$1 00a1 25.

you can trim a growing twig.

casionally. A little attention given care for them according to the teachmouth and assists mastication.

proper food and care and he will more than repay you for the little extra time you give him.

Tie your horse so that he can lie down comfortably at night. It is a say, seemingly little things, arise in practice with some grooms to tie a poultry keeping which baffle the ownhorse so he can't lie down, to save er of the stock and he becomes diswork in cleaning him the next morn- couraged, while another is successfuling.

Grower.

#### SEPARATION BY DILUTION.

It has been known among dairymen for some years that milk could be diluted with from 25 to 50 per cent of water and the cream be gathered on top by the gravity process without injuring its quality to any marked degree.

cans do not separate as thoroughly as things look big on paper, instead of the old pan or shallow can system. giving facts. If I were going to start Many farmers and dairymen are mis- in the breeding of fancy poultry again, led by their claims as to thorough I would put a good price into a trio of separation of cream from the milk, the breed I liked the best, build a The companies promoting these dilu- comfortable house, study the business tion cans also claim the patent right and grow up with it. There are so of diluting milk with water for the many things to be looked after to purpose of creaming. This claim is make poultry breeding a success, that without foundation in law or in fact, it cannot all be learned at once. I In a few words, when a farmer pur- find that board floors should always chases such a separator he is getting be used in coops. The floors should be nothing more than a tin can and the made separate and the coop should privilege of mixing water with his fit down to the ground around the milk, which does more harm than floor. This allows the chicks to be good .- T. L. Haecker, in Nebraska above the ground the thickness of the Dairyman.

# GREEN FOOD FOR HENS.

The regular farmer generally has enough by products from his fields to feed the hens without considering special crops for them; but the person who raises chickens for a living alone must raise crops for them in summer than 42 degrees above the horizon.

to this will prevent a so-called "side ings of this department, past, present driver" or "puller." It prevents sore and future, he will be ready to affirm that he has got the best breed on Keep your horse feeling good by earth .- Farm, Stock and Home.

## HELP EACH OTHER.

Little things, or rather, we should ly treated as a rival. Hence, it is very

Don't bring your horse in hot from desirable that poultry raisers, men a drive if you can help it if you do, and women, should endeavor to do rub him thoroughly dry. A slow jog each other all the good they can in or walk for a short distance before this direction. We are all too apt to unhitching will cool him off quicker take up one or two breeds and for the and save much work .-- Green's Fruit time tell people they are the best breeds in existence, then in a year or two discard them for another variety. and occasionally in less time than this even, all because of the little things which came up to discourage us. Perhaps the next breed tried, we meet with the same discouragements, forget-

ting the fact that we have tried those various breeds at different seasons of the year and under different circumstances. One year may be a bad year It has also been demonstrated by for poultry, and the food and houses dairymen and experiment stations may not be as good as at another time, that in some cases where the milk or our treatment of the fowls not the is unusually thick, such as that from same. Raising poultry is very interstrippers, diluting with water would, esting, but it is no child's play, and to a slight degree, aid in separating we have very little time for pleasure the cream from the milk. 't has also trips, as work soon accumulates in been shown that on the average cream case of delays and neglect, and unless will not separate as perfectly from given prompt attention, may result milk where dilution has been used. fatally so far as the life of the fowls Separators working on such a plan. If is concerned. I find that clean, comwe may call them such, are nothing fortable houses, with plenty of exermore than tin cans in which the sepa- cise and a variety of food, are the ration of cream is accomplished by the safeguards against disease. The begravity process, and is claimed to be ginner in the poultry business is too greatly aided by dilution with water. often misled, as so many writers seem

It has been clearly shown that these to want to please them by making board floor, preventing their getting damp in rainy weather, and you will find they will thrive better than where no floor is used .-- M. F. Norris, in In land Poultry Journal.

> In order that a rainbow may be produced the sun must not be more

#### By Major George G. Groff, M. D.

TORKS on natural history state that the house fly does not exist in State, wanted to name the new place Porto Rico, yet in that country all the conditions seem to be present for its existence. It is always summer; there is everywhere an abundance of the material in which flies are popularly

supposed to breed, and yet one never finds more than two or three of these insects in a room. Screens on doors are unknown and entirely unneeded, so far as this pest of our land is concerned.

During the Spanish-American War the house fly was as abundant in the American camps as it is ever seen in the States. Indeed, the camps literally swarmed with flies. When the troops withdrew the house fly, too, disappeared. The writer on December 1, 1898, was medical officer on a transport which sailed from Porto Rico with seven hundred men and an equal number of horses and mules. The flies which accompanied the men and animals were like those of Egypt. They were on and in everything, and they continued with the ship until we neared the States, when the cold caused them to disappear.

It is now known that the female' house fly lays her eggs in horse manure and that they there hatch. But Porto Rico is a country abounding in horses. The American army horses were fed on grain, as horses are commonly fed in the States. The Porto Rican horse gets no grain. This is the only present explanation known of the failure of the fly to multiply in that island. Yet there may be other reasons. For there are none of the flies there which annoy horses and cattle by sucking their blood. A horse or an ox can stand unprotected all day, and no fly of any kind annoys them. Oxen have their heads yoked in an immovable manner, which would be very cruel if there were flies to devour them, but there are none.

There is a singular absence of all wild life, including insects, in this island. Only two grasshoppers were seen in a two years' residence; no caterpillars at all were seen. Ants are very rare. Probably insects are kept down by the very large number of chameleons and other small lizards, which are very abundant and are insect eaters. Mosquitoes are not abundant, and are bred in the house cisterns, one or more of which belong to each house. The only insect of which complaint was made was a mole beetle, an insect living in the ground, and which destroyed young plants to a great extent.

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# "MENTAL DETECTIVES."

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# By Dr. Martin W. Barr, Chief Physician of the Pennsylvania School for Feeble-Minded Children.

Not only from the tragedies and monstrosities of degeneration does soclety need protection, but from its certain and appalling increase. Statistics though imperfect yet, prove that nothing clings so persistently-is so certain of transmission, as mental defect. A literal realization of the sowing of dragons' teeth is the record of the so-called Tribe of Ishmael, where within half a century was produced some 5,000 degenerates, the offspring of one neurotic man.

Who, in the face of all this, shall fail to see that mercy, pity and the cry of humanity and self-defense alike call for legislation which shall forbid the perpetuation of evil and the contamination of pure stock.

Much has been done to redeem and raise to higher planes by training, but to the left. This performance he exmuch remains to be done. The establishment of separate asylums for the helpless idiots, idio-imbeciles and epileptics, now burdening the training schools; legislative enactments providing for the separation of abnormal from normal children, and requiring their assignment to schools for special training; the permanent sequestration, under conditions dictated by science forbidding increase of those adjudged unfit for the duties of parenthood and citizenship; the opening of reservations and colonies to which may be transferred those trained in the various institutions, thus relieving ocercrowded conditions, while giving a stimulus to training, and also providing permanent homes where trained im- Philadelphia Record. beciles may pursu; their various avocations under new and more satisfactory conditions.

There are some considerations for thoughtful legislators, for it is to the lawmakers in all lands that we must now look, lest the work having attained a certain success in one century should in another, through lack of pro- Philadelphia Record. tection and encouragement, fail to go forward.

# How Camphor Monopoly Works.

The camphor monopoly of Formosa is worked by the Japanese government, which compels the cultivators to sell to itself at a low price-about thirtyfive yen the picul-and sells again for from eighty-five to ninety-five to a merchant who is bound by contract not to sell higher than 102 yen at Hong Kong, and 107 in London. This is to prevent contractors from selling at too high a figure, and thus encouraging other countries to cultivate camphor. It is a childish device which the financier defeats by putting up a man of straw as contractor from whom he "buys" at regulation figure and sells at his own price .-- Journal des Debats.

## Sheep Eat Bottle Trees.

During the prolonged drought that has devastated large areas of Queensland, a few squatters have been abla to save a remnant of their flocks and herds by feeding them on bottle trees. The scientific name of this tree is sterculia, but its popular name gives an idea of its shape. It is like a soda water bottle, magnified to a height of four or five feet. The bulbous part contains a mucilaginous substance, which is wholesome and nutritious to those who have acquired its taste. It was pathetic to see the thirsty sheep gather around a bottle tree, pick up the chips, chew them and extract all possible moisture.

# His Wig Saved Him.

A good story comes from New South Wales concerning a certain back-country M. P. noted for his baldness and his wig, says the London Express.

Coming across a large body of aborigines evidently bent upon mischief some years ago, he got behind a tree, put his head out to the right and showed his well-wigged skull; then as quickly withdrew it, pulled off the wig, and placed his baid head out ecuted rapidly for a few minutes.

The dark warriors stared, then with a wild yell of "Debbil, debbil,," rushed off through the scrub.

# A Come Down.

"This is quite a come-down for me," remarked the inventor of the airship as his machine collapsed,---

A Woman's Temper.

"A woman's love may grow cold," says the cynical bachelor, "but her temper will remain as hot as ever. --

Butter, Separator, 22a23c; Gatheret cream, 21a22c; prints, 1-tb 25a26c; Rolls 2-lb. 25a26; Dairy pts. Md., Pa., Va. 23a24c.

Eggs, Fresh-laid eggs, per dozen 19a20c

Cheese, Large, 60-1b, 10%a10%c; medium, 36-lb, 10%a10%; picnics, 22-lt 10%a10%c

Live Poultry, Hens, 113/a12c; old roosters, each 25a30c; spring chickens, 12a13%c, young stags, 11a12%c. Ducks 11a12c.

Hides, Heavy steers, association and salters, late kill, 60-lbs and up, close selection, 12%a12%c; cows and light steen 9%a10c.

Provisions and Hog Products .- Bulk clear rib sides. 12%c; bulk shoulders, 10%c; bulk bellies, 13c; bulk ham butts, 10%c; bacon clear rib sides. 13c; bacon shoulders, 11%c; sugar-cured breasts, 11%c; sugar-cured shoulders, 11%c; sugar cured California hams, 11%c; hams canvased or uncanvased, 12 lbs. and over, 141/c; refined lard tierces, orls and 50 lb cans, gross, 11%c; refined lard, second-hand tubs, 11%c; refined lard, half-barrels and new tubs, 11%c.

Live Stock.

Chicago, Cattle, Mostly 10a15c lower, good to prime steers \$8 00a9 00; medium \$4 5'ha7 50; stockers and feeders \$2 50 a5 15; cows. \$1 50a5 75; heifers \$2 50a 6 50; Texas-fed steers \$3 25a5 50. Hogs, Mixed and butchers \$6 75a7 65; good to choice, heavy \$7 40a7 70; Sheep, sheep and lambs slow to lower; good to choice whethers \$3 50a4 00; Western sheep \$2 50a3 75.

East Liberty, Cattle steady; choice \$7 50a7 80; prime \$7 00a7 25. Hogs, prime heavy \$7 20a7 25, mediums \$8 00; heavy Yorkers \$7 30a7 35. Sheep steady, Best wethers \$4 40a4 60 culls and com mon \$1 50a2 00; choice lambs \$5 50a5 75.

#### LABOR AND INDUSTRY

Elevator conductors at Omaha, Neb.,

Chicago janitors to the number of

an injunction, in wages of the car men. Decreases in miners' wages in English federated districts affected 321,000

Telegraphers throughout the country are organizing and will demand higher wages.

Toledo (Ohio) telephone girls may organize.

contemplate forming a union.

300 have formed a union. The Santa Fe Railroad has granted