FARM AND GARDEN NOTES.

NOTES OF INTEREST ON AGRI-CULTURAL TOPICS.

Have a Rotation o Crops-Tapping Sugar Orchards-Feed and Drink for Cows-

Poultry on the Farm, etc.

Have a Rotation of Crops.

Every farmer should devise a plan of rotation which will maintain the fertility of his farm and at the same time give a yearly profit.

To maintain the fertility, the larger part of the farm should be planted with coarse forage and what is known as concentrated grains, which should be fed to the live stock, and the manure of these animals should be returned to the land.

Tapping Sugar Orchards.

We should advise those whose maple trees were badly injured by the forest caterpillar the past season to decide not to tap them next spring. Where the foliage was nearly all destroyed, as it was in many cases, there was a great drain upon the tree to replace it, even as there is when a fruit tree is allowed to overbear. It needs a rest the next year to recover from it. Even if it yields some sap it is likely to be thin and of poor quality, making but little-sugar, and the tree will be injured for future crops, if not killed by the drain. We expect the temptation will be great, as sugar may be scarce and high, but a farmer had better lose a single crop than to destroy his orchard. There is one encouraging feature, the entomologist of the Vermont Experiment Station says that most of the cocoons left by the caterpillars last year are so badly infested by parasites that there will not be many insects next year.

Feed nd Drink for Cows.

There is a wide difference in the feed and drink required by cows giving a larger number. milk as compared with those that are • being fattened. While the fattening ful raisers of poultry have begun and process goes on cattle need comparatively little moisture, as what to begin on a large scale and come out moisture is in their tissues is he- very small .- Fanciers Review and ing replaced with fat. But milch cows Fruit Grower. are usually growing thinner while they are bing fed, as most of what they eat goes into the milk pail, and it for the cow that is giving milk.

lieve in growing first-class peaches and having the orchard thoroughly clean. This will require strict attention to business, but if this is given, peach culture will be profitable. Keep the soil in the condition of a sponge, as stated above, sell peaches in baskets, be thoroughly honest and the orchard will be a sure source of profit,-John F. Boyer in Orange Judd Farmer.

Small Flock System.

The poultryman who keeps a small flock of poultry in a village yard is very apt to think that he could do much better if he was on a farm where he could have larger buildings and not be obliged to confine his fowls in yards. We have tried both ways, and we think now that if we had a farm as large as the State of Rhode Island. every hen and chicken should be enclosed in a yard with a wire fence around it, so that they could not get out, or dogs and foxes could not get

And the yards should not be so large that we could not easily look over it every day to see that there were no sick hens, and that none were laying outside of the house. We might have two yards for each flock if we had space for them, and if we had no other business to attend to we might have several flocks, but they should be kept separate every day in the year.

Nor should we want more than 25 or 30 hens or chickens in one flock, which would not require a very large house or large vard. We know that this would make a larger outlay necessary for the same number, out we believe extra profits would repay that, and it, would have the advantage that if croup or other diseases began in one flock it would not spread to others, as it does where there are several flocks in one long house.

Another advantage of the small house and small flock system is that one may begin in a small way and increase each year, as his income from them would warrant and his experience demonstrated his ability to handle

This is the way most of our successgrown up, while we have known some

Grass in Orchards.

It is customary among farmers who is well known that the normal propor- set out new orchards of young fruit tion of water in milk is nearly 80 per | trees to cultivate them pretty thorcent. It is, therefore, for the interest oughly while small, generally planting of the milk producer to feed succulent | corn or potatoes as often as possible, food, and to give water warmed and as these afford opportunities for cultimixed with some nutritive meal or vating the surface most of the growing other feed so that more of it will be season. But as the trees grow larger taken. The animal that is giving milk the apparent profit from cropping the will eat a great bulk of thin bran slop young orchard lessens very rapidly. made by mixing bran with warm Under the shade of trees in full leaf water. The cow that is merely being neither corn nor potatoes will do their fattened will prefer to take a good best. Usually the orchard is cropped deal of its food dry, only taking half with grain between the hoed crops, or less of the water that is necessary and it is sometimes seeded with clover ;

WOUNDS IN MODERN WARFARE.

Experience of Our Men in the Philippines-Treatment.

Captain Boltwood, of Ottawa, who was in the Civil War, and also commanded a company in the Twentieth Kansas, writes interestingly of the effect of bullets as follows: "Great as have been the improvements in firearnes, it seems to me that they have been as great in surgery. In the Civil War a man was placed on a stretcher and carried back to the field hospital. without waiting to stanch the flow of blood, placed on the operating table, the wassid probed for the bullet, or amputation performed if thought necessary, the part bandaged, and, as a rule, col! water applied for several days. Many death, ersened, and often gangrene got in the hospitals with very fatal effect.

"Now, when a man is wounded, the hospital men come up, and before the subject is moved an antiseptic bandage is applied. There is no field hospital, but the man is placed on a stretcher and taken to some spot designated, where he remains until he can be removed to the base hospital. On his arrival there the bandage is removed, a new one applied, and the

generally not disturbed for a week. No water is applied, and no probing is done for the bullet, which, unless located near the surface, is allowed to remain until the patient has recovered. Then it is cut out or allowed to remain, as thought best. In case of fracture of the bone, it is frequently placed in a plaster cast and allowed time to get well. No gaugrene has ever appeared in a Manila hospital, and up to within a short time previous to our departure but six amputations of arms or legs had occurred.

"In the matter of firearms, actual service in the field demonstrates that theories do not always apply when it comes to actual field service. I have read of German experiments with the Mauser rifle, and of the experiments of our Government with the 'Krag' and 'Lee' rifles. All went to show that the effect of these guns was something terrible. The bullets would pass through at least four bodies, and while at the point of entrance the wound was small, at the point of exit it was fearfully large. The liver and other internal parts were reduced to'a pulp. and in one case nearly half of a man's skull was torn away.

"My observation of wounds received in the field was quite to the contrary. Courtland Flemming, of my company, was shot in the lower abdomen and the bullet removed from near the spine. He is now well, Sergeant Morse was shot near the temple, the ball passing, it is said, through two thicknesses of the skull, boring out six inches in the rear of the point of entrance. He reported for Guty in three another ship was a young man with weeks. Lieut Colonel Wallace was an income of \$200,000 a year, who was or with the grasses. This is always a shot entirely through the body, the just about to be married, but instead severe check to the young trees. It i ball passing through the lungs. He re-

A map and a book of census statistics will tell the story. It is the story of the oil from the pitcher again. Men and women touched the crest of the

continent at Leadville, in Colorado, in 1858, but fell back into the plains again before the sixties were expired. The Mormon emigration filled the valley of the Jordan in 1847, but the general tide of people either went to the lower valleys of the Sacramento and the San Joaquin on the Ori ntal side of the Sierra Nevadas, or receded on the eastern slope of the Rockies. Successive mining discoveries enticed rushes of prospectors into Northern Idaho and British Columbia, but the greater mass of the movers went back into the warmer regions of California and Oregon. Where the Comstock and the Consolidated Virginia silver mines once magnetized so many settlers as to beguile Congress into making a State of Nevada, there is little left now but the evidence of what has been and the promise of what may be when the immigration of the West begins to move again for less glorious promises than acres of oranges for the mere tilling of the soil, and monster timber for the mere hewing of the logs. The mesas of the two Southwestern territories, Arizonas and New Mexico, seem to have absorbed the hosts of traders and adventurers that went into them, as the sandy soll of their great areas drink in the freshets from the mountains."

CONTRASTS AT CAPETOWN.

Plucky British Officers and Ignoble Johan nisburg Refugees.

Julian Ralph, the American corre spondent who is in South Africa for the London Daily Mail, contributes to that paper a rare picture of two classes of British "forwards" who are 'carving empires out of the map to swell the size of England," The one class he met on the steamer going out. the other he found filling the Cape Town hotels when he got there. Of the second his contempt runs into loathing to express his disgust.

Every troopship going to South Af rica Mr. Ralph found carried from twenty to fifty of the very flower of young British manhood, bearing themselves "at once like dandles and like athletes." They were unattached British army officers hastening to the front from every quarter of the empire. To quote:

"These fine young fellows have come during their leaves of absence, which have been well earned in active servic. in disagreeable climates, in lonely garrison posts in the Sudan or on the Indian frontier. One who came here with me has given up a billet for which he had long been striving and which was offered to him just as he had determined to come out here and do a little fighting for variety. * * *On

PLATONIC FRIENDSHIP.

Fhilosophical View of the Advantages of American Love Making.

lations of the sexes have gained new liam Smith, and according to the good intellectual aspects. The better edu- old English custom, duly christened. word "friendship" to cover investiga- sealers, and promptly a fleet from tions in love. It allows ampler ev- Stonington was on hand in Yankee periments. What was once comprom- Harbor, then the southernmost refuge lands to invite a girl to a solitary walk | Pendleton, noticed lofty peaks still is equivalent to a proposal. With us farther south, and sent Captain N. B. a hundred strolls, full of discussion, Palmer, in the sloop Hero, "but little may end in a negative conclusion that rising forty tons." to make investigawill be without bitterness. In other tions. Captain Palmer found the new days marriage was an estate that had country extensive, but bleak and useto be purchased on a distant view. less for sealing, and he promptly re-Now many of its pleasantest groves turned. Near Yankee Harbor he fell and avenues may be visited at leisure. in with the famous Russian exploring take it," said one of the older school. Not only that; he was morally bound to take it. To-day she may read spec- were amazed to find an American vesimen pages to a score of men before sel "apparently," as Fanning reports she chooses the final listener.

ire mainly for the intelligent. Many she had left the United States." They girls will fail to comprehend the higher flirtation, and proceed in the same told them of the new land beyond, old way, and men will ignorantly Bellingshausen salled farther south, marry the piquant face and vivacious and discovered more lands, but did not manner. But to the marriage of true forget to give Palmer the honor of minds impediments have been remov- first sighting the outlines of the coaed. The freedom of our education de- tinent. velops platonic flirtation to its noblest In the following season Palmer visuses. If American men make the best lited his discovery again coasted it forhusbands the reason is related to the almost fifteen degrees-from about the training they have in meeting, on sixty-fourth parallel of longitude to terms of equality, with many women. the forty-ninth-and at 61 degs, 41 It is stupid in men or women to lack min. came upon a strait which he the instinct for flirtation; but this in- named after Washington. He landed stinct, like so many others, can be in a bay and christened it for Monroe, turned to the deepest or the emptiest His names however, together with uses. To make yourself attractive, those given by other Americans, have comprehending and sympathetic is the disappeared from the charts.-Albert

way to draw out another nature and White Vorse, in Scribner's. obtain full knowledge, and to condemn all coquetry is like recommending swimming and forbiddding water. Sentimental people fear intimacles which do not end seriously; but the which, according to the story, was increase of knowledge and security is found in the waters of the Missouri worth some hearts broken before marriage instead of after. Few objects has been shown on account of the reare more readily mended, and few improve so much through injury and re- body, which is without a blemish.

Platonic fliriation is one of the safeguards of the human race. As one after another my friends have passed General Thomas Francis Meagher, through this gate to the alfar, I have been tempted to declare that most pla- while on a voyage on the Mississippi tonic friendships end in matrimony; but a calmer memory recalls numberless escapes, through this probation, Monthly,

and the CENTRAL AMERICAN THRIFT.

The Only Way the Murdered Man's Brother Could Have the Murderers Punished.

American Discoveries in the Antartic.

The first important discovery of land by an American came about in 1820. At that time the South Shetland Islands, sighted by Dirk Gerritz in Since the emancipation of woman, 1598, and by him named New Iceland, especially in the United States, the re- had just been rediscovered by Sir Wilcated youth of both sexes now use the They seemed to offer a good field for ising is now but introductory. In some known. The commander, Captain "He who sees a woman's heart may expediiion under Bellingshausen. The Russians had supposed the South Shetland to be a discovery of theirs, and the speech of the commander, "in as The advantages of the new system | fine order as if it were but yesterday were further amazed when Palmer

Meagher's Body Turned to Stone.

There has been on exhibition in Anaconda, Mont., lately a petrified man river near Ft. Denton. Much interest markable natural appearance of the

An old-time miner and prospector of the name of Walton swears that the body is that of the noted Irishman, who was drowned many years ago river between Fort Benton and what s now Great Falls.

Walton says he knew the general from impending wedlock .- Atlantic well and recognized the petrification at once. The features bear a stariling resemblance to the pictures of the general in the possession of admiring countrymen of his in Anaconda.

The old prospector further identifies the stone body by a peculiarity of one hand, and he thinks he will have no "There is an amusing side to the re. trouble in establishing beyond a cent settlement of the noted Pears doubt the identity of the long lost body also illustrates the shrewdness of Ben Meagher was drowned, and the swift

Poultry on the Farm.

The farm is the legitimate place for of the poultry that is bred in this country is bred in the towns and cities. Even common stock can be produced on the farm at a splendid profit, and, perhaps, there is not an intelligent farmer, a man who thinks and who estimates pretty closely, even it he does not figure to the cent the cost and profit of production, who will say that there is not profit in poultry. But if it is profitable on the average farm. when the hens do not lay when eggs are the highest in price, what might the profits be if the farmer should build warm houses and feed properly? The town and city breeders make money after buying all their feed. The farmer need buy little. He has everything needed on the farm, at first cost. except green bone or bonemeal. Not to utilize this source of profit is simply recklessness that verges upon positive madness.-The Epitomist.

Peaches a Profitable Crop

The safest and best location for peach trees is on an elevation, preferably a ridge with fairly fertile soil and good air drainage. The grower should thoroughly understand his soil and know something of chemistry in order that he may be able to supply the right kind of plant food, as otherwise the land would become exhausted and failure result under conditions that in every other way are favorable. He must have confidence in the business and be able to withstand reverses, for these are sure to come at some time.

As with most fruit, a large percentage of the peach is water and consequently in order to be successful in producing peaches the moisture must be carefully attended to. Peach trees do not like stagnant water and will die if placed on land where the drainage is has a son fighting at Mafeking, that not good, but the soil must be kept cul- the Secretary of State for War has livated and in the condition of a two sons at the front and that almost sponge so that the moisture will be every member of the government is absorbed and retained in sufficient represented by one or other of his quantity to supply the trees when the near kinsmen. Lord George Hamilfruit is being formed, and later when ton, speaking on Tuesday, told his authe dry season approaches. I have be- dience that, besides a son at Ladytween 17,000 and 18,000 peach trees in smith, he has no less than thirteen cultivation over a space covering 88 | nephews now fighting for the Queen .--acres. The soil must be stirred after | London Tablet, every rain so that evaporation may be prevented. Different soils of course Chicago uses 4,000,000,000 pounds of will require different treatment. I be- ice a year.

often starts them to bearing, the check There are still men to be found who to growth being nearly always accomsignificant to claim their att.ntion and So soon as the trees get to bearing, regard the flock as something for the most farmers give up cropping the orwomen and children to "fuss" with, | chard, and if not seeded before, it is The last census gave the value of poul- at once seeded with both clover and try as \$290,000,000, while that of swine grass. But if the grass is continued was less than \$200,000,000. Poultry year after year the sod becomes imbreeding, too, has an advantage over penetrable by air or water, and its swine breeding in that the business is | roots exhaust the surface soil, which is never overcrowded, for we import over always the richest. The tree soon be-\$2,000,000 worth of eggs every year, comes unfruitful, and unless manure is brought to the orchard to fertilize it, poultry breeding, yet over 50 per cent. the tree will die before it has borne half the fruit it should have given under better treatment.

> There is, however, one way to keep orchards in grass that does not lessen their productiveness. That is to have the trees so low that the shade of the branches with a very slight mulch of manure will keep the grass from growing too rampant, and will also loosen the soil beneath so that it will be easily permeable by rains and melting snows. The low-trained orchard will also be better protected by snow than the orchard whose trunks are trained high with nothing near the ground to prevent the winter winds from sweeping the snow away. But a good protection." the trunks of such trees should be banked up with earth in the fall so as to prevent mice from gnawing the bark and thus destroying the tree. Neither should grass or mulch be allowed to lie under the trees in winter.

as this makes just the kind of harbor that mice like. If the limbs hang low some of them may be weighted down by snow, and the tender bark on the small branches will suffer. But this is better than leaving the mice to eat the bark around the trunk as they will often do, thus destroying it entirely. We have seen the same destructive work by mice where corn stooks were made in orchards, and left as winter came on near the trunks of young trees. A corn stook is a favorite hiding place for mice in winter, as it furnishes both shelter and food. But mice have a strong liking for the sweet bark of young apple trees, and will not miss [any chance given them of getting it when the green food that they find abundant in summer cannot be had.-American Cultivator.

Some of These Fighting the Boers.

It is well known that Lord Salisbury

ported for duty in thirty days.

"Compared with the Springfield or think that poultry breeding is too in- panied by the formation of frut buds. | Remington the 'Krag' or 'Mauser' wounds are slight. At Bacalor, where we used more 'Krags' than Springfields, and where nearly a hundred dead were found on the field, it was the opinion of the surgeon that threefourths of them had been killed by Springfield bullets. If the Springfield had the range of the 'Krag' I believe it would be the most effective army rifle in the world.

* A circumstance came under my notice which was to me of great interest. Captain Flanders' company was stationed in a railroad building at the Rio Grande and about 250 yards from the enemies' works. The building was hardwood frame, the timber being eight inches square, the spaces filled with brick, making a four-inch wall, Single bricks were removed in places and used as loopholes to fire through. Although under fire at short range for twenty-four hours, not a bullet passed through the brick, many of them not even penetrating far enough to stick. while every one that struck the timber passed through. Rice dykes one and a half to two feet thick also prove

AFTER THE GOLD BOOMS.

Importance of the Reactions i Determining Population.

line of least resistance suffers an ex- for them to return to build up larger ception when men seek gold," says fortunes on the solid basis of equal prove it. "In the natural order of picture of the pusillanimous creatures, things, population would have worked which should be studied beside that them only by compulsion, as the Alle- bchalf: ghanies were crossed and the Missisby choice, it must finally rest. The rich?" character of the Great West, the Such contrasts have always been Trans-Missouri, with its multiple var- presented where commercial interests intions, is determined by this phenom- and the sword join in the advanceenon.

him off for Durban."

Mr. Ralph gives an inspiring and significant picture of these men on shiphonrd.

"They were up at 6 o'clock every morning, running so many dozens of times around the deck in slippers and pyjamas in order to keep themselves in good condition, then plunging into a cold bath and coming back to the deck again in flannels as fresh and blooming as new-cut flowers. All day they read about South Africa in the little libraries they had brought along with them, and which they exchanged for other books that other men had brought on board.

These are the men who cannot be kept away from a war in which they know that they are going against "bushwhackers, guerrillas and sharpshooters" who pick off British officers in the proportion of ten to one private pro rata. They are wideawake, well informea, abounding in animal health and high spirits.

In Cape Town Mr. Ralph found another type of British civilization-the rich refugees from Johannesburg. He found the hotels full of these merchant millionaires, "faring on the fat of the land, idle, loafing all of every day, and discussing what per cent. of their losses the British government will pay when they put in their claims at the close of the war." These men talk of the \$125,000,000 in danger of destruction in Johannesburg, with never a thought of the precious lives that it "The law that settlers foilow the will cost to make Johannesburg safe a writer in Ainslee's who goes on to rights for all. Here is Mr. Ralph's itself in a continuous progression to- of the men who are hastening to shed work the Rocky Mountains, crossing the best blood of England on their

"They are pulling their long faces sippi and the Missouri Rivers. But all over the place and shedding their where there is gold in sight there is no tears wherever you meet them. They law. Humanity goes into Alaska actually cry in their plates at dinner with the same blind avidity that it and half strangle tnemselves by sobwent into California fifty years ago, bing as they drink whisky at bedtime. with the same fatuousness that it It is enough to make a statue ill to swept to Pike's Peak in 1858. Popula- have to hear and see them and move tion forsook all its domiciles, its pa- among them. Why don't they equip tronages and its prosperity, in the Ar- a regiment of rough riders, or make gonaut period, and, as if driven by up a battalion of volunteers among some monstrous wind, surged over the themselves? Why don't they fight? uneven earth to the Pacific and to the The war has jeopardized their prop-Rockies. The whole world knows how erty, and they have a keener interest it did so, and the suffering that en- in it than any Tommy or any officer sued is as common a story as the for- now at the front. How can they see tunes that were won. But the thing the cream and flower of English manthat is not known, the matter of last- hood rushing down here to spill its ing importance that is most often over- precious blood for them and never feel looked, is the migratory reaction, the a blush of shame or a pang of any settling back of the big flood to the emotion except grief over losses places in which, either by necessity or which will still leave many of them

ment of civilization.

case," said a gentleman lately from of the general. Honduras, "and it throws a strong The petrification was found about light on the true native character. It twenty-five miles below the spot where Pears, the brother of the man who was | current of the river could easily carry murdered. Mr. Pears insisted at the the body that distance. A thorough outset that the people implicated in investigation of the matter will be the crime must be punished, and I made by the Irish societies of the city. know he had set his heart on having -New York Journal. that done.

"However, when the Government simply asked a \$10,000 money indemnity he said nothing further about his cisms for the Examiner and operates. demand for personal retribution, and at Berkeley as a professor. In the formoved heaven and earth to press the mer capacity he is imposing; in the collection of the claim. He was ac- latter sometimes disconcerting. He is cused of being cold blooded and mer- accused by members of his class of cenary, but he paid no attention to the being cynical to the verge of insultslurs and kept working to that one ing. An Alemeda member tells a end. At last, after infinite trouble, the story of how he was come up with, Honduraneans were brought to the however. In calling up a student he scratch and handed over \$10,000 cash took occasion to oulzz her as to her to their financial agent, with instruc- name. "Does G-r-e-e-n-e spell Greene or tions to pay off the indemnity and stop greeny?" he inquired, pausing to look the confounded row.

egic play. 'If I allow you to keep that cerned responded, "Does S-y-l-e spell money, he said, in substance, 'will you do as I asked at first, and punish my brothers murderers? Would they? Will a duck swim? If you knew how hard it is to get coin from a Central American Government you would understand with what avidity they grabbed that proposition. Pears wanted General Manuel Bonilla, Governor of the Coast Department, removed for direct complicity. Boniila was supposed to have a first mortgage on his job, but the way he was yanked out of it county, Ill., was recently drowned in was a caution to boa constrictors. I an old cistern. The mother saw the doubt whether he has caught his child go down, and at once jumped in breath yet. The other demand was to rescue him. The water came up to for the arrest and punishment of the her chin. For over an hour she held soldier who did the actual shooting. He the child above her head, all the time was promptly hurled into a dungeon, and I wouldn't be in his boots for all Latin America. 'Did the senor want drop the child, allowing it to drown. anybody else arrested? asked the po- For over three hours she screamed for lite officials. 'No.' 'And did he really waive claim to the \$10,000? 'Yes.'

"So that settled it, and everybody was happy except Bouilla and the soldier. The case will have a salutary effect down there. Hereafter petty military tyrants will probably think twice before they jeopardize their own skins by molesting strangers."

Oom Paul's Autograph.

Autograph letters in Dutch, written by President Kruger, Gen. Joubert and President Steyn, are exhibited for sale in the window of a dealer in the Soho district. Oom Paul's signature has a substantial and increasing market value. An American paper says there is a craze among collectors in New York for His Honor's autograph, and that there is more than a suspicion that several forgeries have been palmed off on the public.-London Chronicle,

There are 20,000 beggars in old Madrid, and 5,000 thieves.

A Question in Orthography.

Du Pont Syle writes dramatic critiabout to catch the effect of his wit. "Then Pears made his great strat- Quick as a flash the young lady con-Syle or silly?" and she had not time to pause for the effect. The professor clouded for a moment, but finally burst out laughing, and now Miss Greene is the heroine of the co-eds, and the professor's class has it a little easier .-- Alameda Argus.

Compelled to Let Her Baby Drown.

The four-year-old child of Scott Carwell residing near West End, a small town in the southern part of Saline crying for assistance. None came and she was forced through exhaustion to aid for herself, but not until her husband, who was at work a mile away, came home did she succeed in securing relief. She was rescued, but may die from exposure and nervous exhaustion.

Arabian Horses for Indian Cavalry.

The military authorities in India have remonstrated against the displacement of Arab horses by Australians in the Bombay cavalry regiments. It is pointed out that the cavairy was excellently mounted in the past, when purchases were made only in Arabian and Persian markets, and that the new animal is not only inferior but more cosfly.

Thirty years ago there were only about twenty-five explosive compounds known. Now there are more than 1,100,

During May the total charitable, ligious and educational gifts in United States aggregated \$3,220,60