Notes for Farmers.

ture, Mr. Wilson, recently delivered an address on the subject of "Irrigation," from which we take the fol-lowing extracts: Mr. Wilson said:—

husbanding of our waters that go to waste where the snow melts in the mountains, through government agency, is a new deparfor which we may thank President Roosevelt. All other influences combined would have failed to secure the legislation. It was a wise movement. It will result in making homes for millions more people. It will make markets for manufacturers and business for commerce. help to balance off the growth of our cities. It will result in producing the hundred million dollars' worth of sugar we now buy abroad. It will do all this and much more, and still leave large areas that cannot be irrigated.

'After we get what we can from the man who studies the weather and the man who studies the plant, we must turn to the scientist who studies the soil. This is a new line of research that has utterly been neglected by educators and scientists as far as a practical application of facts to everyday life is Our soils are mixtures of original rocks that have been disintegrated by the action of agencies that have operated through long periods time and are still at work. Water has been the carrying system and is still at work above ground and be neath the surface. One of your beautiful valleys seems to have simi lar soils all over it, but it is certain to have as wide a variety as the mountains from which the material came. The schoolmen have neglected inquiry into soil variation, soil moisture and soil composition, from which plants get nutriment. whole field lies fallow and awaits the coming of the student of soils and soil moisture.

"We are studying methods of applying water to crops to determine which are the most economical labor and water, which produce the best results in crops and in the condition of the soil. Our experiments to determine what quantities of water produce the largest returns have already been mentioned.

"Experiments in this country and elsewhere have shown that the stage of the growth of the plant at which water is applied has a great deal to do with the crop produced. The ex periments show that water applied to grain crops at certain stages tend to make them produce a larger rela tive quantity of straw than they otherwise would; water applied at other stages tends, to increase the production of seed. Water applied to root crops at certain stages makes them run to tops, and at other stages it goes to enlarge the roots. The time of applying water to beets affects their sugar contents, and water applied to potatoes at the wrong time may ruin the crop. All things are well known in general way, but they are merely suggestive of the possibilities of a careful, scientific study of the methods and times of applying water to

"It may be possible that regulating the time of applying water to crops and the amounts applied will be found to be one of the greatest agents in eliminating undesirable qualities and perpetuating valuable ones in all our crops raised under irrigation. The possibilities along this line are unlimited, as they are along all lines of agricultural prac-

"Farmers cannot, as a rule, make these experiments for the improve- hensible." He adds: "If I may be ments of the crops themselves. They are dependent upon the returns from their fields for their living, and must therefore stick to methods and to crops which have proven to be sucsful. Progress in agriculture both in the arid region and elsewhere, must depend very largely upon the work of the government in introducing those which prove beneficial

PHILPSOPHICAL.

Since we cannot get what we like let us like what we can get.

SYMINGTON'S

COFFEE ESSENCE



ALCOHOL DRINKS these drinks. Tables give a list of forty-two such preparations contain-

PHYSICAL EFFECTS.-Very in eresting are some of the conclusions arrived at in the recently-published 'Fourth Report of the Committee of Fifty on various aspects of the Liquor Question, covering the 'Physiological Aspects of the Liquor Prob-Edited by John S. Billings Houghton, Mifflin & Co., Boston.

The investigations of this committee, which was organized ten years ago, are scientific and thorough and therefore reliable.

The experiments of Dr. Abel lead to the following conclusions. with which the committee agree, viz. Alcohol in moderate quantities does not appreciably affect the action of the heart itself, either in the way of stimulation or depression. (In very large quantities, such as result in helpless intoxication, alcohol is a direct and powerful depressant of the heart.) Nor does it affect the walls arteries and veins, arterial blood-pressure. In large quantities the action is depression upon the nerve centers which control the arteries and the action of the heart. Alcohol stimulates the respiratory functions, highly flavored wines, etc. producing more pronounced action than plain alcohor. The action of alcohol on the nervous system is one of its most important and most unfortunate characteristics. It is this action which leads to the "craving" for drink.

Alcohol stimulates muscular work, but a paralyzing action always succeeds the stimulation, and further doses do not renew the stimulation equally; but some depressing effect also follows the stimulating use of tea, coffee, or kola.

The action of alcohol on the brain is the prime cause of alcoholic consumption. "Elderly people and invalids may receive benefit from moderate drinking, and there are many, in whom the exacting duties and friction of life cause mental tension and overwrought nerves, who find a good estorative in a glass of wine taken with dinner at close of day; but the use of alcohol is not a necessity of social life, and there is no why alcohol should not be abolished from the world, and the craving which it satisfies turned into

AS A FOOD.-Professor Atwater calls attention to the great dangers of excess, moderate drinking leading thereto, but seems to prove that while "not food in the sense that bread and meat are food," alcohol is, nevertheless, a food in the sense that starch is, being of the substances "which, when taken into the body, either build up tissue or yield energy." Alcohol undoubtedly yields energy by furnishing a fuel to the human engine, and to a certain extent preventing the breaking down and wasting of the proteid bodies, human system, but "the preponderance of evil resulting from the excessive use of alcohol had led many to feel that any statement regarding the moderate use of alcohol is reprepermitted the expression of a personal opinion, it is that people in health, and especially young people, act wisely in abstaining from holic beverages; but I cannot believe the cause of temperance in general or the welfare of the individual, is promoted by basing arguments against the use of alcohol on anything less than attested facts."

TEMPERANCE DRINKS .- The paper on "temperance drinks" is inteesting, if not as important as some The statistics show an enormous cou sumption of these beverages; for instance, in Massachusetts at least 300,000 bottles of Ayer's Sarsapur illa are sold annually, "and as this contains over 26 per cent. of alcohel, it is clear that many are partaking pretty freely of an alcoholic drink without perhaps being aware of it." A very large variety of drinks containing a greater percentage of alcohol than ordinary vines and beers are consumed in rigarous otal abstinence circles, one of its premost advocates permitting her picture to be used as an advertise.

ing from 6 per cent. as a minimum to 42 per cent. as a maximum of alcahol. Mentioning a few at ran-dom, we find "Paine's Celery Compound," 21 per cent.; "Hoodand's German Bitters," "entirely free from alcoholic stimulants," 25 per cent alcohol; "Hostetter's Stomach Pit ters," 24 per cent.; "Warner's Tonic Bitters," 35 per cent: "Aver"s Sarsaparilla," 26 per cent.; "Hood's Sarsaparilla," 18 per cent.; "Inebig Company's Beef Tonic," 23 per cent.

ALCOHOL AND DISEASE - Dr Welch's report on the pathological effects of alcohol concludes the second volume. It demonstrates that "alcohol in sufficient quantities is poison to all living organisms, both animal and vegetab,e." The use of concentrated alcohol, or of excessive amounts of alcoholic beverages, produces injurious effects upon the stornach, but in many instances, "even after the prolonged use of diluted aicohol the stomach appears nearly normal, both to the naked eye and under the microscope." "Long continued excessive use of alcoholic drinks is by far the most common and important (though indirect) cause of cirrhosis of the liver in hu man beings." Many diseases of the nervous system are the direct result of excessive alcoholic stimulation. A fatal termination of Bright's dis

ease, apoplexy, paralysis, insanity pneumonia and tuberculosis is predis posed by excessive alcoholic stimula tion. Many persons drink beer, wine and spirits in moderation through out a long life without apparent impairment of health. Others are extremely susceptible. There is questions as to the injurious effects of a continued use of even small quantities of alcoholic liquors.

One of the most important effects of alcoholic indulgence is a lowered ability to resist disease. "Physicians recognize the graver prognosis of pneumonia, cholera, erysipelas, etc. in persons who habitually drink to excess. The belief that those who indulge freely in alcoholic liquors thereby acquire a certain degree of protection from tuberculosis is com pletely discredited.'

GENERAL CONCLUSIONS. - Effects of moderate or occasional of alcoholic drinks differ with individuals, age, occupation, climate, etc.

With the majority of occasional drinkers and moderate drinkers no especial effect upon health seems be observed by themselves or their physicians, but in some such cases drinking is harmful; in a few it is thought to be beneficial.

Eighty per cent, of the leading brain workers of the United States are alcoholic drinkers occasionally or regularly, in moderation. The use of such drinks to stimulate mental effort gives, on the whole, bad results. Even occasional or moderate use is likely to be harmful to young persons, mainly because of the danger of leading to excess. Amor eased or infirm persons over fifty years of age, while sometimes useful alcoholic beverages should be taken if at all, with the last meal of the

The special effects are due to the alcohol contained, and other ingredients are of comparatively small importance. "Fine old whiskies and brandies" are nearly as alike to produce injurious effects as are cheaper grades, if taken in the same

In moderate quantities, beer, wine and diluted whiskey are in a certain sense foods, but they are seldom used for food purposes; mainly for their peculiar effects on the brain. large quantities, and for some pereven in moderate quantities

they are poison Alcoholic drinks in moderate quantities may be useful as restoratives in fatigue after work is done, but often produce depression and a harmful effect when used just during labor, physical or mental They are useless as preventives of infectious or contagious disease the contrary, they appear to less the power of the organism to resist the cause of such disease. They are

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CIETY.—Meets on the second Sunday of every month in St. Patrick's Hall, 92 St. Alexander St.
immediately after Vespers. Committee of Management meets is same hall the first Tuesday of every month at 8 p.m. Rev. M. J. Mc.
Kenna, Rev. President; W. P.
Doyle, 1st Vice-President; Jno.
P. Gunning, Secretary, 716 St. Aptricine street, St. Henri.

ST. ANN'S T. A. & B. SOCIETY established 1863.—Rev. Director, Rev. Father McPhail; President, D. Aallery, M.P.; Sec., J. F. Quinn, 625 St. Dominique street; M. J. Ryan, treasurer, 18 St. Augustin street. Meets on the second Sunday of every month, in St. Ann's Hall, corner Young and Ottaws. streets, at 3.30 p.m.

ST. ANN'S YOUNG MEN'S SOCIE-TY organized 1885.—Meets in its hall, 157 Ottawa street, on the first Sunday of each month, at 2.30 p.m. Spiritual Adviser, Rev Father Flynn, C.SS.R.; President, R. J. Byrne; Treasurer, Thomas O'Connel; Rec.-Sec., Robt. J. Hart,

A.O.H. LADIES' AUXLIARY, Disvision No. 5. Organized Oct. 10th, 1901. Meetings are held in St. Patrick's Hall, 92 St. Alexander, on the first Sunday of each month at 2.30 p.m., on the third Thursday at 8 p.m. President, Miss Annie Donovan; vice-president, Mrs. Sarah Allen; recording-secretary, Miss Rose Ward, 51 Young street; financial-secretary, Miss Emme Doyle, 776 Palace street; treasurer, Mrs. Charlotte Rermingham chaplain, Rev. Father McGrath.

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NOTES

BROWNSON CENT

bishop Farley, of Nev

ed at a meeting of the

" If the English-spe best interests, they would powerful Catholic papers work

in that city, held on 5th October instant, rangements were comp celebration of the cen estes A. Brownson. heen fixed, but we ha learned the date, for t a monument to Browns be erected in Sherman at corner of Seventyand Amsterdam Avenu has been completed, ar exhibition, in the main Catholic Club. The b feet six inches high, an a monument fifteen fee will be placed shortly It is intended that t day shall be important al circles, and the Clu leading clerical a tors of New York to Certainly if ever an A served a monument it Dr. Brownson. But w to have a memorial bronze erected his work as an imperishable mon rarest character. Bro truly great; he was grea dark days when he w about, like a giant lost rinth, for the light a that he needed-the light and the foothold of trut he succeeded in securir towered high above all temporaries in the dor troversy. Brownson's " an encyclopaedia of Ca trine. When the celebra place we will be happy t

event and to thus revive

Brownson's wonderful life

more wonderful works.

THE CHURCH IN AME Urbain Gohier, a Frenc just issued a volume in discusses the important the Catholic Church in A gives some very strong fe up by strong statistics to strength of the Church in World. Mr. Gohier must a very careful and exhau of his subject. From his will extract a few passages no comment. Mr. Gohier Roman Church which in States numbered 44,500 ants in 1790, to-day nur 000,000, or more. To thi now add 6,500,000 of Car the Philippines and 1,0 Porto Rico. The territory Republic maintains one seventeen Archbishops, Bishops, almost 11,000 more than 5,000 chapels, 500 officiating priests. Th Catholic seminaries, 163 c boys, 629 colleges for girls included), 8,400 parochial 250 orphanages, and near other various institutions. the United States alone se Peter's pence to Rome that Catholic countries together This would be still strong Gohier taken in Cana added thereto not only our

PRIZES FOR BOYS.-It thown fact that much of the dice, and consequently of the between people of different arises from the fact that the

population, but above all t

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tutions of charity and n But, as it is, it suffices to

great growth of the Church