REPUBLICAN TICKET.

For President, WILLIAM MCKINLEY, of Ohio. For Vice President, THEODORE ROOSEVELT, of New York. Electors-at-Large, NCE WOLF, of Philadelphia FRANK H. BUHL, of Mercer, A. B. ROBERTS, of Montgomery. W. C. ARNOLD, of Clearfield.

Auditor General, E. H. HARDENBERGH.

GALUSHA A. GROW, R. H. FOERDERER. For Congress,

A. G. WILLIAMS For Assembly. J. B. MATES, N. H. THOMPSON

For Jury Commissioner, JOHN G. CHRISTY.

Hurricanes. What cause Hurricanes? causes a large body of air to star shooting through the other air at the rate of a hundred miles an hour of

The hurricane that destroyed Galves sisted of a body of air, probably several hundreds of miles in length, by a hundred or two wide.

It was first noticed and reported from one of the lower Caribbean islands, ten or twelve degrees north of the Equator. and Gulf of Mexico in a northwesterly direction till it struck Galveston; thence nearly due north over Texas and the Indian territory; thence northeast to the lakes; thence east across the lake region and York state, where it divided part going southeast to the sea and part theast over New England and New Foundland.

At Galveston it was travelling nearly hundred miles an hour, and across the lakes about sixty miles-and the question recurs—what started it?

The Encyclopædias have long chap-ters on atmosphere, meteorology, windcurrents, pressure, rainfall, etc., but no-body can answer the question because

The World turns from West to East, and drags the atmosphere with it. At the Equator the surface of the Earth travels a thousand miles an hour from West to East, and for a thousand miles or so on either side of the Equator there is a gentle breeze from East to West the year round, called the "trade-winds," which the sailors "hitch on to," as they coming westward; but every now and then a vast body of air in this region cuts loose from the rest, as though the power of gravity over it were mo-mentarily suspended, and runs amuck mentarily suspended, and runs amuck over sea and land, destroying man and

his property, and nobody knows why. An Open Field for Farmers.

Americans get boastful at times and claim to feed and clothe themselves and a large contingent of the human family in other countries besides. Figures that don't lie, however, take the conceit out of those who read and think, and show that to a considerable extent we only was estimated at twenty-millions coffee, tea, sugar, wool, silk, wine, fruits and other foreign agricultural products. The Agricultural Department at Wash. ington has just published a bulletin showing that our average annual importations of the articles for the past five years have reached the sum of \$366,964,708. caught robbing the dead—the ghouls of many. Hawaii and the Dutch East In- world. There were more execution from France, Italy, China and elsewhere, hides and wool from Great Britain and

coffee, tea and silks we import all we ance to our agricultural interests whether we can increase our production of the first named articles and successfully a diversity that would seem to open the way to the sucessful cultivation of even gun for each. coffee and sugar on a large scale. As to silk, it is only a question of relative cost.

Wine and topical fruits can be produced his death after due court-martial. That in unlimited qualities whenever our is the biggest execution ever known in farmers consider it worth while. It is the United States probable that we will be compelled to In the Bolivar lighthouse, which South America and Australasia simply because it is more profitable to crop small farms with a diversity of products sought refuge from the storm. than to turn large sections of tillable supply of fresh water was soon exhaust-

wants in whole or in part in those artifrom other countries, is one that offers | The bucket was soon filled with water itself as a solution of the problem of but it was salty and could not be used ction in other agricultural staples, Those who cheapen cotton, wheat, corn and other staple products the thirst of the excited refugees. The by growing more than can be sold at a salt water spray was shot skyward over tive price will do well to study these figures of our agricultural imports with a view to extending their farming into new fields. We have mastered the processes of refining sugar, roasting coffee and raising grapes. Why shouldand make wine as well?-Philadelphia

A great struggle between the opera-tors and miners of the authracite coal region began Monday of this week and a hundred thousand miners and laborers Mr. W. H. Davis, State Mining Inspec-

INSIDE EMPLOYES.	3 38.27
Foremen	485
Fire bosses	808
Miners	36,876
Laborers	23,960
Drivers	10,267
Door boys	3,073
All others.	16,103
Total inside employes	91,072
OUTISDE EMPLOYES.	334 34
ForemenBlacksmiths, carpenters	382
Engineers and firemen	4.445
Slate pickers	23,876
Superintendents	442
All others	19,680
Total outside employes	
mi	

The grand total is 141,953, but as fore Now is the time to subscribe for th

For President.



PRESIDENT M'KINLEY.

Echoes of the Great Storm.

Twenty-two vessels were wrecked at St. Johns N. F. by the great gale of last week, which divided in New York State part of it going to sea over the city and Emperor should resume his authority, part going over New England and New that the Empress should be discarded

At Galveston, Friday, hundreds of the lead were burned, and several persons umped into the funeral pyre in mania al despair. "Gone" was the sad word used in Galveston. Some people lost all wondering where they had lived.

Pictures of the streets of Galveston as they appeared immediately after the storm and flood new appear in the illustrated dailies. Galveston was a very trade, and it will be rebuilt Off its population of 48,000, 6,000 were killed. The area of total destruction was 1,300 acres. There were 5,000 dwellings, hotels churches and convents utterly de stroyed. More than 1,500 bodies have been burned. The property loss is not less than \$20,000,000. One hundred and

twenty-five men, most of them negroes, were shot to death for robbing the dead. Out of this disaster, nnparalleled in the history of the Nation, Galveston is rising to reclaim her place among th most prosperous of our cities. Her railroads have pledged themselves to aid in rebuilding the city. Her merchants are resolute to resume business. Her banks are ready to assist in the re-establishment of commerce and outside capital is flowing in.

The one urgent need of the hour is no money, but disenfectants by the ton, so that workmen may bear to work among the ruins.

The ore-laden barge John B. Lyon sank in Lake Erie, with eleven men. The wind blew sixty miles an hour.

During the latter part of last week twenty-five thousand people in Galveston were homeless, and the property loss wreckage. Relief was being forwarded from all over the country. Pittsburg

In all 125 men were shot for stealing some lived there and the others went there from nearby places. They were We buy coffee from Brazil, Java and a week of woe and despair. Not a tithe other sections, sugar from Cuba, Ger- of the story has reached the outside dies, tea from China and Japan, silks there in two days than in all the United States in a year. Some few enjoyed their constitutions

South America, wines from France, privilege of a drumhead court-martial, Italy and Germany, and foreign fruits with an army officer as a dispenser of life or death. The most were shot down as they robbed. Soldiers and produce some and import more. Of citizens alike had been clothed with this authority-to kill anyone caught steal ing from the dead or even the piles wreckage. One artillery sergeant killed five men within the minute with his Krag-Jorgensen-a man for each of the engage in the production of any or all of five cartridges in his rifle's magazin the others. Of climate and soil we have One citizen killed two negroes in the twinkle of the eye-a barrel of his shot-

In one batch of guilty ones were 43

be large buyers of wool and hides from stands 130 feet high on Bolivar Point across the bay from Galveston, about one hundred and twenty-five people ed, and an effort was made to secure The possibility of supplying our own water by catching rain in buckets suspended at the top of the lighthouse. The experiment was a success in a way Several attempts finally resulted in a fresh-water supply sufficient to quench

> one hundred and thirty feet, and ming led with the rain water that fell in the buckets THE population of none of the states has, as yet, been tabulated, but judging from the growth of its ten largest town this state will continue to hold second place. As a matter of fact, the danger that any other State with a less popula tion than Pennsylvania will outstrip it is too remote to be worth serious conideration. Illinois, with ten thousand

more square miles of territory, will prove its most formidable competitor, and is likely so outstrip Ohio and attain third place as a result of the present enumeration. It lacks the unrivaled mineral of Cook county, which conlains Chicago, will never be more than a very thrifty and populous agricultural State. That

it will continue to grow in population at the rate of a round million a year is yery unlikely, and unless it does this it will not overtake Pennsylvania and become the second State in population. Texas, with an area more than five times as great might eventually outrank.

Butler County Pomona Grange, No. 17 P. of H. will meet at Eureka Grange Hope. Whenever we unite with a great deal of the success of our local Butler County Pomona Grange, No. 17 P. of H. will meet at Eureka Grange Hope. Whenever we unite with a great deal of the success of our local Butler County Pomona Grange, No. 17 P. of H. will meet at Eureka Grange Hope. We want to see it grow. All members come and let us have a full meeting. By order of committee. W. H. CAMPBELL, W. H. BOOK, Sec'y.

Butler County Pomona Grange, No. 17 P. of H. will meet at Eureka Grange Hope. We want to see it grow. All members come and let us have a full meeting. By order of committee. W. H. CAMPBELL, W. H. CAMPBELL, Sec'y. Master. every other State, including New York, if a safe site for a great gulf city could be found, but the recent experience of Galveston shows that this possibility is

THE CHINESE WAR.

On Thursday last the Russian govern ent demanded that the Chinese and that Prince Tuan should be punished. The Russians received word of reverses in Mauchuria, and the destruction of two-hundred miles of their railroad

Li Hung Chang left Shanghai for their relations, and wandered about Pekin, with his own escort, the British Admiral objecting to a Russian cruiser ecompanying him.

Minister Wu. at Washington said he did not understand why the British were owing this animosity. He was sure that Li-Hung-Chang had always been friendly to England. The same Shanghai dispatch said that the German Minister had called upon Li-Hung-Chang on the ship in which he would proceed to Pekin. Minister Wu said that this was yery gratifying news as the German and British Consuls in Shanghai had been the only ones who had not called upon

AFRICAN WAR.

President Kruger is yet in Lorenz Marquez, but as the British Consul protested against his using Portugese territory as a base for directing the Boxers

Information comes from London that the Imperial Government intends soon to proclaim a state of peace in the Trans raal and to treat all who do not submi to British government as "outlaws." For the credit of England and the cause of manity it may be hoped this report is not true. A state of war was proclaimed in South Africa nearly a year ago The conflict has been waged on both sides as civilized warefare. The Boers have adhered to humane practices. Their only crime is they will not yield their inonly crime is they will not yield their independence, though defeated and driven Kentucky last week where he will dress the mountain fastnesses. Their de- tools in the oil country. ase of their liberty has challenged the admiration of the whole world as a de onstration of capability, courage and

It is incredible that Great Britain posing as a leader in national progre and gallantry, should insult the remnar of that patriotic army by denying elligerent rights and putting a price upon each individual head. No credit has attached to the Salisbury government for waging a war of aggression gainst a self-governing people for no ause other than the greed of gold and ampire. But to turn that war into a sampaign of extermination and insult a successful minister in the Methodis against a self-governing people for no

a successful minister in the Methodist church. He with his family spent a two month vacation on the Chautauqua Assembly grounds in New York. He occupied the M. E. pulpit at Harmony on Sunday evening and preached an ex-cellent sermon to a large congregation, wany of the members being old friends. It may be granted the Boers have arried their defense beyond the limit manded by patriotic honor; that surender would be more wise and humane than further resistance, and that present tactics are very irritating to British settlement. But the Eper is en-October 1st. titled to continue his war until he is Rev. Goettman occupied the Presby-terian pulpit last Sunday in the absence of Rey. P. J. Slonaker, the pastor, at overcome by legitimate means. It would hero es as criminals. - Dispatch.

POLITICAL.

At Kittanning, vesterday, the Repub 21st District nominated S. M. Jack, Indiana county, for a second term.

That mighty Populist, Gen. Jim Weaver, was to hold forth at Emporia, Kan., the other day. Instead of the expected sea of faces, there wasn't even a bucketful, and Gen. Weaver refused to speak. Once more these lovely lines bubble up in the memory:

Few Pops

Christian Endeavor Convention

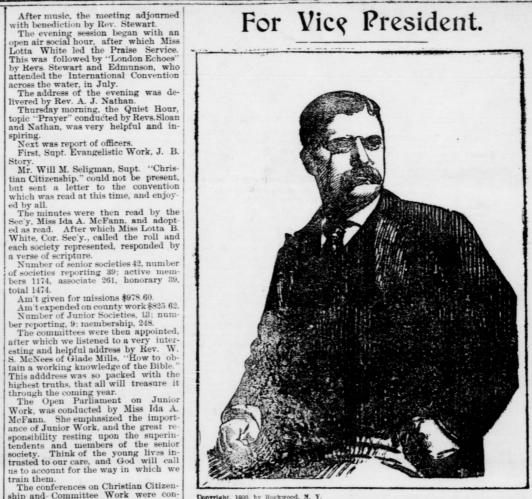
Report of the Tenth Annual Conver convenience of the renth Annual Convenience of the Butler County Union held at Slipperyrock, Pa., August 22d and 23d, 1990. The first session of the convenience on Wednesday with an intion opened on Wednesday with an informal reception and delegates prayer meeting led by Rev. G. R. Edmunson, of Slipperyrock. This was followed by the Annual Address of the President, Rev. W. H. Sloan, of Prospect, Pa. He said in part, "What do we represent?" First—Personal loyalty to a personal Christ Second—A broad Christian fellowship. Third—Applied Christianity. Mrs. Miller, of the Young Peoples Society of the United Presbyterian church then greeted us, after which we joined in singing, "Draw Me Nearer." The three-fold topic on "The Secret of the Success of the Local Society." was then discussed.

Prayer meeting—Miss Bessie Bowen of Niles, O., on Thursday, of Evans City, read a very interesting paper. The most important thing of all pr. Harry Wilson of the paper. The most important thing of all in making a good prayer meeting is reverence. A good meeting is one that makes you feel you have been talking with your God. If we want our words to do any good and to bring others to Christ, we must speak from the heart to the heart

Business meeting—W. B. Ferguson of bicora, Pa., in the first place we must ave an ideal or model. The meeting hould be conducted in a business like

After music, we listened to an excellent address delivered by Prof. H. I. Painter, on "The Two Forces in Life." This address was something to be remembered by all who were fortunate enough to hear it.

For Vice President.



THEODORE ROOSEVELT.

piring. Next was report of officers. First, Supt. Evangelistic Work, J. B.

Story.

Mr. Will M. Seligman, Supt. "Christian Citizenship." could not be present, but sent a letter to the convention which was read at this time, and enjoy-

which was read at the deby all.

The minutes were then read by the Sec'y, Miss Ida A. McFann, and adopted as read. After which Miss Lotta B. White, Cor. Sec'y., called the roll and

a verse of scripture.

Number of senior societies 42, number of societies reporting 39; active members 1174, associate 261, honorary 39,

ance of Junior Work, and the great re-sponsibility resting upon the superin-tendents and members of the senior society. Think of the young lives in-trusted to our care, and God will call us to account for the way in which we train them.

The conferences on Christian Citizen-ship and, Committee Work were con-

hip and Committee Work were con-ducted by Rev. G. R. Edmunson and were very helpful.

The afternoon session opened with prayer service conducted by Rev. Taylor.

aylor.
Miss Inis McClymonds read an inter-sting paper on "The Ministry of

Next was the two-fold topic or

Spiritual Growth."
Tenth Legion—Rev. J. A. Cunning

Quiet Hour. Was ably discussed by

Treasurer, C. H. Mayberry, Slippery

onsecration service.
Thus closed the Tenth Annual Con-

Endeavor Union.
IDA A. McFann, Rec. Sec'y.

Harmony and Zelienople.

Mrs. John C. Stoughton left for her nome at Cincinnati, O., on Thursday of ast week after a four week's visit with

her mother and relatives at Harmony.

Mrs. Charley Schantz and children of

Earl W. Kidd a fireman on the Ft

Wayne railroad is spending his vacation with his parents at Harmony this week.

Mr. and Mrs. J. O. Stuart and Miss Ethel B. Armor of Allegheny visited H. W. Bame and family at Harmony over

e will preach the annual harvest hor

is house since last week.

Supt. Christian Citizenship, Prof. V A. Green, Prospect

sting paper on

ipperyrock

Am't given for missions \$978.60.

You have heard that-Whoever lost a shawl about De on Day, can find it at Mrs. T. J. Critch-

Albert, Hilliard and McCall have be perating their threshing machine north town. The boys do good work.

Rev. Oliver.

Moral Progress.
Sunday Keeping—Prof. Green.
Temperance—Rev. A. J. Lavely.
These topics were both ably discussed.
The nominating committee then presented the following names as officers for the coming year.
President, Rev. J. W. Komick, Chicora Pa. Mrs. Lepley entertained Rev. N. cheffer, wife and son, and Mrs. Langarst at supper one evening last week. M. T. McCandless is lying with ty-phoid fever, and his friends hope for a speedy recovery.

Saturday, Sept. 8, to have a game of ball. They went up against a professional pitcher, and the drubbing was a sad one. But the boys say that Mrs. Betsy' Fleming, aged about 80 years. She was buried at Deer Creek Church, Betsy' supper was one of the best they ever sat down to. How. Bunker, Fatty, Bull, Seef and others made the chicken disappear. Sec'y, Miss Dema Bard, Corresponding Sec'y, Miss Lotta B. Supt. Junior Work, Miss Ida A. Mc-Fann, McFann. Supt. Missionary Work, Mrs. F. W. Stewart, Connequenessing. icken disappear.

Todd Forrester has a fine lot of picures, but the one entitled, "Four Barooted Maids in Bed" is very amusing Sav. Mr. P. H. Sechler, the next tin

you go to Pittsburg and register at the Victoria from Butler, we, the people of Prospect, will disown you. Oscar McCandless, who was working at Elwood, is home at present owing the sickness of his father.

Supt. Christian Citizenship, Prof. V. A. Green, Prospect.
Supt. Evangelistic Work, Louis Mc-Cullough, Chicora.
We then joined in singing, "Blessed Assurance", after which Rev. Lavely dismissed us with prayer.
The open air meeting at 7:00 on the lawn in front of the church, was conducted by J. B. Story and was well attended. The Praise Service was led by Miss Frances Herdman.
The committee on place of meeting Revival services at the Baptist church Isle, began Sunday. Sept. 18, and will continue two weeks. Miss Frances Herdman.
The committee on place of meeting reported Evans City for 1901.
The closing address was given by Rev.
J. R. Henry of Pittsburg, one of our State Vice Presidents; who also led the Mrs. N. S. Grossman and son Cur

were the guests of Eyans City relation not long since. Fred Milleman and Ford Heyl have returned from a trip to Buffalo, Ningara, and Toronto. The boys had a fine time although they got sea-sick while cross-ing Lake Ontario.

When you go to make your kraut, get Frank Critchlow's Sterling knife and box, which Frank has bought for his ons at a low figure for hire.

Mrs. Joshua Gallagher, who has been

eattle, and his cows were poisoned W. R. Riddle has a Pittsburg Dispatch rinted in 1864, and it contains quite ist of Butler Co. names, who were on th

Mrs. Geo. Pflugh and daughter Emma and Carrie, of Mt. Chestnut were the guests of Mrs. Daniel Shanor and laughters, last week. Miss Frankie Dodds entertaine

friends, Maggie Waddel and Hattie Bowers at dinner one day, last week. Joe Cosity.

Fairview Facts.

Rev. R. M. Sherrard, who has been pastor of the U. P. congregation here for the past ten years, preached his farewell sermon last Sunday. There was a very large turn out, of which a was a very large turn out. Of which a great many felt sad to think that per paps it was the last message from him so worthy of his calling as he has prov ed to be. He is going to locate in Washington, Pa., and is moving there his week.

Rev. J. A Leuzinger, pastor of the Grace Reformed church at Harmony is John Forquer and wife were up from expected to return from his European trip this week. Next Sunday morning ng Machines this week.

Hugh Young is already engaged at hurch preached his last sermon for this onforence year at Harmony last Sun nusking his corn. day morning. He expects to be assigned to a new field of work when the Nannie McGarvey, May Wilson, Edward Byers and others attended the pic nic at Keister last Friday.

R. P. Scott has completed an addition Prof. E. E. Strawbridge, the newl elected principal of the Harmony school J. A. Mechling, who has become commenced work on Monday morning resident of our town, is teaching our school this term. He opened school last Monday with an attendance of 40 pu-Simon Keefer of Little Creek eriously ill with heart disease.

Walter Webster of the W. Va. field is at his home on the Fanker farm J. B. Storey left for his last year o near Harmony at present. Ph Templeton and wife spent a day G. A. Morris of Mercer was at Har

with his brother and sister in Armstrong The mill opening at Harmony Ionday evening of last week was unty, last Saturday. E. W. Byers starts this morning then the Presbyterian Seminar tended by 1200 people. The country people now have their urn with the city cousins—they go to

Benjamin Wise and family with others of Beaver Falls visited H. A. Hallstein and family at Harmony on Mrs. J. M. Bice is in poor health.

Way McKee is home with his family for the past week. He has been engaged in the oil business near Freeport. G. W. Walker and wife of Nesha Mrs. C. W. Wasson is home visiting mother, Mrs. R. E. Daubenspeck.

Mr. and Mrs. Jere Williams of Har Mrs. S. T. Dodds and family are going to move in with her father, Win mony announce the marriage of their daughter Lillie Dale to Jesse H. Knox Go to C. Scott's for a new supply of fall stock of goods

Dr. Harry Wilson of the St. John's Hospital Allegheny is the guest of his Preaching in the Presbyterian Sunday evening at 7:30 p. m. Hospital Allegheny is the guest of his parents Mr. and Mrs. A. H. Wilson at Harmony this week.

Butler County Pomona.

Scientific American.

George Greasehopper has erected a saw mill on his place, and intends put-ting up a plaining mill, and shipping finished lumber to Germany. Patterson & Co. are drilling a well on the Mrs. Calhoun lease of the Thomas

DEATHS.

MILLER—At the residence of Chas.

Pfaabe in Clinton twp., Sept. 10, 1900,
Mrs. — Miller, aged about 70 PARKER—At the home of his son. Charles, in Pittsburg, Sept. 7, 1900, John Parker, aged 65 years. He was buried at Parker.

CHWEINSBURG — In Allegheny, Sept. 14, 1900, Richard Earle, child of Chas. N. Schweinsburg, aged 7

STOUGHTON—At his home in Cherry twp., Sept. 15, 1900, Silas Stoughton, aged 55 years. FLEMING—At the home of her daughter, in Pittsburg, Sept. 13,1900, "Aunt Betsy" Fleming, aged about 80 years. She was buried at Deer Creek Church,

Craigsville, Armstrong county, Sept. 15, 1900, Col. Wm. F. Rumberger, aged 83 years. He was widely known as a woolen anufacturer, and was the father of W. Rumberger, Jr., the local wool fac-

CRUIKSHANKS-At her home in Win

CRUIKSHANKS—At her home in Winfield twp., Sept. 13, 1900, Mrs. James McCombs Cruikshanks, nee Wiley, aged 40 years.

Mrs. Cruikshanks had been in poor health for three years. Her husband and seven children survive her. She was buried at Buffalo Presbyterian church, Saturday; Revs. Hazlett and Harper, officiating.

THOMPSON—At his home in Franklin twp., Sept. 15, 1990, Nathaniel S. Thompson, aged 68 years. Stevenson Thomson, as he was generally called, was one of the most intelli-gent, upright and useful citizens of our county and was respected by all who tnew him.

He is survived by his wife and six

MRS. DELLA ADAMS. Mrs. Della Adams, wife of H. E. Adams, and only daughter of Mr. and Mrs. J. C. Bovard, died at her home J. C. Scott has bought R. H. Graham's interest in the store of Graham and Scott, and will do business at the old stand. J. C. wishes his old friends to call week, aged about 30 years. Death was due to a complication of diseases. The deceased had been in ill health for quite ot unexpected.

She leaves besides her husband, her parents Mr. and Mrs. J. C. Bovard, three brothers and a host of relative three brothers and a host of relatives and friends to mourn her loss.

The funeral occurred on Tuesday, servises being held at Bethel U. P. church; Rev. Edmunson conducted the services assisted by Revs. Kerr, Imbrie and Manor. The funeral was one of the layest receivity this experience. the largest seen in this community fo Interment was at Harrisv

PROFESSIONAL CARDS.

GEO. K. MCADOO, M. D. PRACTICE LIMITED EYE, EAR, NOSE AND THROAT HOURS:-9 a. m. to 12 m; 1:30 p. m to 4 p. m. Office and residence corner North and Washington streets. Bell 'Phone No 45. Butler, Pa.

G. M. ZIMMERMAN PHYSICIAN AND SURGEON Office No. 45, S. Main street, over City

BLACK. PHYSICIAN AND SURGEON New Troutman Building, Butler Pa.

Hours 7 to 9 a, m. and 1 to 3 and 7 to

DR. N. M. HOOVER, 137 E. Wayne St., office nours. 10 12 a. m. 1 and to 3 p. m.

W. H. BROWN, HOMOROPATHIC PHYSICIAN AN SURGEON Office 236 S. Main St., opp. P. O.

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DENTIST. Has located in the new Stein building

J. DONALDSON. DENTIST. Artificial Teeth inserted on the lates improved plan. Gold Fillings a specialty. Office next to postoffice.

DR. W. P. MCILROY.

Formerly known as the "Peerless Painless Extractor of Teeth." Located permanently at III East Jefferson St., Opposite Hotel Lowry, Butler. Will do dential operations of all kinds by the latest devices and up-to-date methods.

DR. M. D. KOTTRABA. DENTIST Office at No 114 E. Jefferson St., ove W. Miller's grocery. F H. NEGLEY.

Office in the "CITIZEN" building D. McJUNKIN, ATTORNEY-AT-LAW. Office in Reiber building, corner Main and E. Cunningham Sts. Entrance on E. Cunningham.

TOHN W. COULTER ATTORNEY-AT-LAW. Wise building, N. Diamond St., Butler Special attention given to collections and business matters. HOW LIME ACTS.

Same of Its Good Results-It Is No One of the most important chemical One of the most important chemical changes brought about in a soil through the action of lime is the decomposition of minerals, particularly the disintegration of refractory silicates. Such action as this would generally be produced more easily by caustic, or quick, lime than by any other form. Lime materially sids in the formation of coulds elihertes of alumina which have double silicates of alumina, which have an important influence on the fertility of the land. Double silicates of alumina may be described as silicates of alumina in which part of the alumina is replaced by lime, soda, potash or

Most farmers are aware that ammonia is more valuable than potash, while potash is more valuable than soda, and soda is more valuable than lime. The double silicates of alumina, when once formed, seem to recognize this and exercise a similar order of preference.

If a double silicate of alumina and me exist in the soil and should be Sale of Shoes, just such as rought in contact with soda, some of take advantage of this sale. the lime will be given up, and soda will replace it, resulting in a silicate of alumina and soda. The presence o lime will not enable it to replace the soda, as the silicate of alumina prefers the soda to the lime. If, however, potash is added, the soda is given up and potash taken into the combination, be cause the silicate of aluminia prefers cause the sineate of aluminia prefers potash. But if ammonia comes within the influence of this compound it will replace either the lime, soda or potash, and silicate of alumina and ammonia will be formed. These double silicates are in such shape as to be lost from the soil by leashing, yet are in a read-ily available condition for plants. To the foregoing explanation of the mode in which lime acts Director Pat-

erson of the Maryland station adds the following: Lime and Potash.—Lime has not only the effect of aiding in the formation of unions of potash which will be held in

the soil, but it also has the ability to liberate potash from combinations which are locked up and unavailable to plants. This is particularly marked when lime is applied to land containing fragments of feldspar. Gypsum is par ticularly useful in rendering potast available, and the sulphate of lime in dissolved phosphates often has an in-direct value in this way. Lime also favors the production of nitrate of potash in the soil. This is particularly ng considerable stable manure.

Lime and Organic Compounds.-Lime hastens the decomposition of organic matter and inert nitrogen compounds of humus in the soil, and promotes the formation of ammonia and nitrate com-pounds from the same. It also, as has been seen above, aids in the formation of compounds not easily wrested from the soil. Lime promotes nitrifying fer ments and makes possible their ence in many cases that would be impossible without its presence.

Lime produces particularly good results if applied after using green ma-

nuring, as it acts chemically and unites with some parts of the organic matter and leaves the remainder in a disorgan ized condition, which rapidly decom poses. It is, perhaps, this tendency t destroy organic matter that makes the frequent use of lime pernicious. All evidence teaches us that lime is no substitute for manure, but only a reenforcement of it. No doubt much land ity by applying lime continually until all the organic matter has been used up. Such procedure is probably responsible for the old proverb, "Isme enriches the father, but beggars the

Lime and Phosphoric Acid.—If a sol contains much phosphoric acid com-bined with iron and alumina which is relatively inert, an application of lime will change it into a form available to plants. Lime applied to soils which have received or will receive applica tions of dissolved phosphates will not produce any harmful results or cause a loss of the phosphoric acid. It may hasten the reversion of the solub phosphoric acid, but the phosphoric tion. In the average soil this reversion takes place in any case within 24 hour

after applying the phosphate. Friend Agee sends me a small brownish black beetle with the state ment that it helped to destroy a field of young corn. It has no common name, its scientific name being Myochrous denticollis. It attacks the young plants just below the surface of the ground, eating off the stem, some what after the manner of cutworms Nothing is known of its habits or where it breeds, writes Entomologist F. M. Webster to the Ohio Farmer.

Agricultural Brevities

month. Where cows have not had sufficien salt they should be worked up gradually to consuming a full quantity, the same as for grain. An overfeed of salt o a cow that has been deprived of it acts like a poison, producing irritation of the digestive organs and scouring. Thousands of elms are dying in th niddle and eastern states from the ravages of the elm tree beetle.

Most cultivated soils possess a slight-y acid reaction. Liming is excellent for correcting any excess of acidity. Lime is termed an indirect fertilizer in consequence of the little need of it as plant food and because its benefits are derived from its chemical and physical action on the sotl

A last sowing of beets will make roots which, though small, are of good Sow spinach for the fall crop in Au

Sowing lettuce, late peas and winter radishes is also in order A. T. BLACK. IRA MCJUNN BLACK & MCJUNKIN,

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