

# THE ARROW

ART  
INDUSTRY  
SCIENCE

Publication of the United States Indian School, Carlisle, Pa.

Vol. III

FRIDAY, SEPTEMBER 14, 1906.

No. 3

## "NOW"

If you have work to do,  
Do it now.  
Today the skies are clear and blue;  
Tomorrow clouds may come in view;  
Yesterday is not for you:  
Do it now.  
If you have a song to sing,  
Sing it now.  
Let the notes of gladness ring  
Clear as songs of birds in spring;  
Let every day some music bring:  
Sing it now.  
If you have kind words to say,  
Say it now.  
Tomorrow may not come your way:  
Do a kindness while you may:  
Loved ones will not always stay:  
Say them now.

—Selected.

## WHAT THE FARMER CAN DO WITH CONCRETE

CONCRETE is sometimes called liquid stone. The farmer can take the rocks out of his fields, break them up, with the aid of cement mould them into useful shape, and when the mass has set thoroughly, it will be almost as hard as the rocks were originally.

In view of the rapid destruction of our forests and the necessity for something to take the place of wood, the possibilities of concrete have within the last few years rapidly come to the front. In 1885 the amount of domestic and imported cement used in this country was less than a million barrels. In 1905 the total was nearly thirty million. Cement of course is the basis of concrete, the other ingredients being sand and cracked rock, gravel or cinder.

Opportunities for making use of concrete on the farm are especially great. If it is properly mixed and on good foundations, it is practically indestructible. It is absolutely fire-proof, it never requires painting, and, after certain essentials are mastered, no great amount of skill is required to handle it. Every farmer can be his own builder. He can mix his concrete, shape it into something useful, and feel when he gets the work that it will not only serve him in his lifetime, but that he has produced something that will stand as long as the very rocks themselves.

There is a popular saying among concrete enthusiasts and one that fits well in the mouth that "concrete is cheaper than wood" but it isn't. "The wish is father to the thought." In cases where wood is very scarce it probably would be, but where the farmer cuts his own fence posts or sills for the barn or even where ordinary lumber such as hemlock or chestnut is reasonably plentiful and ordinary methods of construction are followed, the first cost of wood will be less than concrete. For instance it would be cheaper to knock together a wooden pig sty or chicken coop than to make forms and mould it in concrete. That concrete is infinitely better than wood in a great many cases there can be no question. In the case of wood construction, certain parts sometimes have to be replaced three or four times in one man's lifetime, where if he built of concrete it would be there until the crack of doom. Some crude work that the Romans did 2,000 years ago with



TAILOR SHOP—PRESSING AND CLEANING.

a mixture of slaked lime, volcanic dust, sand and broken stone, even to-day remains impervious to the tooth of time. The important consideration then is not "how cheap" but "how good."

Here are some concrete possibilities. You can build concrete foundations, sidewalks, fences, water troughs, cisterns, water tanks, shelves, cesspools, gutters, floors of all kinds in the cellar, barn and stable, steps and stairs, well curbs, horse blocks, stalls, hog pens, troughs, chicken houses, corn cribs, ice houses, incubator cellars, mushroom cellars, hotbed frames, bridge abutments, chimneys, ventilators, dams, windmill foundations, fence posts, clothes posts, and hitching posts. There is one farm where the post and rail fences, and the feed bins are concrete, and in another even the lattice under the house piazza and the laundry stove are made of it. Cases of this kind are extreme and impractical however.

Any one with practice and study can become reasonably proficient in handling concrete, but certain important things must be kept in mind or it will be a failure. It must be carefully and thoroughly mixed, and the materials must be right; "any old thing" will not do. The three ingredients of good concrete are cement, sand, and broken stone. All sorts of proportions of these three ingredients are possible, but for general work a very satisfactory mixture is one part of cement, two and a half parts of sand and five parts of broken rock, or as it is usually expressed 1: 2½: 5. The kind of sand is very important. The best is sharp sand—that is sand taken from a pit—but river or washed sand is generally sat-

isfactory. It should be clean and coarse, comparatively free from clay, soil, sticks, leaves or rubbish. An easy way to tell whether it is suitable is to drop a handful in a pail of clean water. After a few minutes if you can see the sand in the bottom of the pail, it is clean enough for your purpose, so far as clay is concerned. The rock, sometimes called aggregate, should be broken up into irregular pieces having rough clean surfaces.

Mixing the concrete is the all important thing, and upon the care with which it is done depends success or failure. It is best to use a water tight platform or a shallow box. The proper amount of sand should first be spread in a layer and the cement spread on top of this. They are thoroughly mixed dry until the whole mass is uniform in color. Then a hollow spot or crater is made in the middle of this mass and the proper amount of water poured into it a little at a time, being careful not to make it too soft. The dry material should be worked up from the outside toward the centre, and then turned rapidly with shovels, and water added by sprinkling until the

proper consistency is reached. The broken stone, thoroughly wet, is added after the cement and sand have been mixed. Where considerable concrete work is to be done on a farm, it would be well to buy a mixing machine. They vary greatly in price, but satisfactory ones can be bought for about \$100. While for general use the proportion 1 to 2½ to 5 is recommended, for unimportant work where the concrete is put in masses such as in backing for stone masonry or in large foundations, a mixture of 1 to 4 to 8 will do. This is a leaner mixture, however, and would not be at all satisfactory in ordinary cases.

Cement can be colored by mineral pigments. It is rather difficult to do it satisfactorily however. The shade will be dependent upon the pigment used. It is best to prepare small specimens first and note the color after drying, in order to get proper proportions. For grey use lamp-black—for yellow or buff use ochre—for brown use umber—for red use Venetian red—for blue use ultra marine.

Concrete should not be thrown from a  
(Continued on last page)

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CARLISLE, PA., SEPTEMBER 14, 1906

**PROVERB**

Our greatest glory is not in never falling, but in rising every time we fall.

**TO FORMER STUDENTS**

It is always a source of pleasure to the management and an inspiration to the students of the school to hear from time to time from former Carlisle boys who are now out in the world for themselves, and to learn of their success in the vocations chosen and prepared for here in their Alma Mater. The columns of the ARROW are open to all, and we would like to hear from the four corners of the earth, wherever Carlisle Alumni are located. Reports of your success can but urge the present classes to a strict adherence to duty, and close application to their studies, in the hope that they may duplicate, aye, even improve upon your success. A word of encouragement from one who has passed through the course and knows, from personal experience, the value of the training received while at Carlisle can but result in new ambitions and increased desire for learning.

**THE INDIAN BAND COMING BACK.**

The expected happened when the City Council last night voted to have a contract executed with the Federal authorities having charge of the Carlisle Indian Band for the return of the band here next summer. The action of the Council, though, is none the less gratifying.

We must have free music in Ocean Park. No better musicians could be secured than the Indian Band. No band anything like so good could be secured so reasonably. The City Council saw this point and it has done its duty well. The music question, therefore, is settled for another year in the proper way.—Long Branch News.

The above notice taken from one of the Long Branch papers is gratifying to every lover of Carlisle, and yet to those of us who have labored hard and long for the interests of the school it is nothing more than was to be expected. For where can be found a more perfectly organized, well equipped, thoroughly drilled, organization of musicians than is to be found in the Carlisle Industrial School Band? Their ability is conceded by all whose pleasure it has been to listen to their concerts and the renewal of contract for next season at greatly increased compensation is but a recognition of their musical ability.

**RETURNED STUDENTS**

**REPORT.**

Miss Goyitney, who was home this summer makes the following report of the returned students of Laguna, N. M.:

Yamie Leeds has lately been appointed as Post Master at Seama; he is also the interpreter for the governor of the Laguna Pueblos at the same time he manages his farm and ranch.

Ayche Saracino, class '04, is the Post Mistress at Pahuate and is also a field matron in the village.

George Pratt, '03, is working with an engineering corps at Gallup, N. M.

Mary Pratt '04 is attending a high school at Riverside, Cal.

Julia Dorris is a field matron at Casa Blanco and nothing but good report was made of Julia and her work.

Alice Smeffed is the housekeeper for the teacher at Laguna and also makes clothes for the day school pupils.

Solomon Day and his wife Kate Creager Day, '02, are living in Albuquerque, as Solomon is employed by the Santa Fe Railroad.

Paul Shattuck is running his father's farm and ranch.

Ulysses and William Pasano both have stores and have big trade.

Mrs. Annie K. Abner, class '98, and her husband are putting up a fine house at Casa Blanco, and when finished it will be the finest house around there.

There are many more who are doing very nicely and all have nice homes.

The Pueblos as a tribe are doing very well and are working very hard this summer.

Their fruit crop was a failure as the early frost and the grasshoppers destroyed them.

**A New Sisterhood Takes Charge of the Catholic Pupils.**

As is well known, the number of Catholic pupils attending the School is so large, that during the last five years a community of sisters was sent by the Catholic Church to attend their spiritual wants. The direction of work among Catholics is still under the management of Father Ganss, who has been closely and intimately identified with the School during the last fifteen years.

Last Sunday a new sisterhood, founded by Mother Katharine Drexel, assumed charge of the work. It belongs to the Order of the Blessed Sacrament, an order established with the sole purpose of laboring in behalf of the Indian and Negro. Mother Drexel, who is a daughter of the great banker Francis Drexel, not only devotes the income of her millions to the support of Indian and Negro education, but has consecrated her life by a solemn vow to the worthy object and established the Sisterhood for the same purpose.

The Sisters who will labor in the School are: Mother M. Paul, superior; Sister Ligouri, in charge of the large boys and girls; Sister Regina, in charge of the small boys. St. Katharine Hall, Carlisle, which Mother Katharine built five years ago, is the headquarters of the Sisterhood, and the town club-room for Indians of all denominations.

We extend a cordial welcome to the "Indian Sisterhood," and bespeak it a successful result of its labors.

**Notes from the Quiver**

→ Lapolia Chiago will soon leave for the country.

→ John Holmes has gone to the country for the winter.

→ Nancy John has gone to the country to spend the winter.

→ Wilber Peawo, a member of class '06, is working at the agency in Anadarko, Okla.

→ Fred Smith, who has been with the band this summer, spent a few days here.

→ Mr. George Lydick, of Cass Lake, Minn., will soon be here with a number of children.

→ Miss Dora Reinkin, member of class '05, was recently married to Mr. Clifford Shongo at his home in New York.

→ Martha Day, who has been 1st Lieutenant of Company A, has been promoted to Captain of the Company.

→ Miss Mary Goodboo, who has been living with our well known patron Miss Edge, is in for a few weeks visit.

→ Clara Henault, who went to the country writes that she likes her home in Wyncote Pa., very much.

→ Wm. H. Weeks and Patrick Verney, both members of the band, are going out to spend the winter near Trenton, N. J.

→ Frances La Rocque, a faithful officer of Company A, is improving in health, having been on the sick list for about two weeks.

→ Miss Dora H. Masta, who left for home last year, and member of class '09, is at Lake Mahopac, where she is having a good time.

→ Miss Anna Minthorn, class '05, is daily looked for with a party of children from Oregon. Anna has been in ill health for some time but we expect to see her looking well and strong again.

→ The band boys have been receiving beautiful postal cards from friends in Long Branch every day since their arrival in Carlisle. They seem to be missed very much indeed by the Long Branch people.

→ A new book, "Modern Industrial Progress," by Cochrane, has been added to the reference department of the school library. It will be specially helpful to employees who give talks to the students on industrial subjects.

→ The condolences of the ARROW, as well as of the entire school are extended to Miss James, one of the employees, on the death of her mother, who had been a patient sufferer for many months. Funeral services were held in town on Thursday.

→ Naomi Greensky, one of the Normal girls who went to the country some months ago, made quite a record in the school she attended while away. She averaged ninety-two per cent in her studies and was promoted to No. 7 school room when she returned to Carlisle.

**We will be pleased to see you!!**

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**Athletic Notes**

→ The Junior Varsity foot ball squad has been organized and are working hard.

→ Paul Ricketts who has lately joined the foot ball squad say he likes his position as tackle.

→ Both athletic fields are now in use. The Varsity practice on the one, and the small field is used by the shop teams and the Juniors.

→ Clarence Woodbury, John Farr, Dane Mitchell and James Wind are waiters at the Training Club. They prove to be very satisfactory.

→ During the past week, a number of the boys have been practicing for the coming season of 1906 but the experience proves that it is not very easy to become a star in a foot ball team.

→ Long Branch base ball team played a picked team composed mostly of Varsity men and were defeated twelve to eleven. This game was played Saturday afternoon. Coach Pierce was the umpire.

→ Fritz Hendricks, class '08, 3rd base man on the baseball team for two seasons and left halfback on the football team for three seasons has been elected captain of the baseball team for the season of 1907.

→ The base ball game between the band team and the Mechanics was very interesting. Both sides played finely, but the Mechanics were a little too good for the band team. The score was 11 to 12 in favor of Mechanics.

→ Guy Cooley has been elected captain of the Junior Varsity football team. The outlook for the team is very bright. Several games have been scheduled for the team; 29th of this month will be the first game on Carlisle Fair Grounds.

→ Notwithstanding the extreme warm weather the coaches have, in the past week, been putting the candidates through a severe course of preliminary work, signal practice and a few scrimmages. With the new candidates especially, there can not be too much stress laid on such work as falling on the ball, passing and receiving punts, pass balls etc., starting quickly, proper methods of tackling and charging. It is tedious work but very essential to the making of a first class player. Signal practice is another feature of training that many players like to avoid but without it good snappy team work is impossible; and a team lacking team work can do very little in a contest, no matter how good the individual players may be.

**Football Schedule for 1906.**

Sept. 26,	Villanova College at Carlisle.
" 29,	Albright College " "
Oct. 3,	Susquehanna University at Carlisle.
" 6,	State College at Williamsport.
" 13,	Open.
" 20,	W. U. P. at Pittsburg.
" 27,	University of Penn. at Philadelphia.
Nov. 3,	Syracuse University at Buffalo.
" 10,	Harvard University at Cambridge.
" 17,	University of Minn. at Minneapolis.
" 24,	University of Cincinnati at Cincinnati.
" 29,	University of Virginia at Norfolk.
SECOND TEAM	
Nov. 3,	Susquehanna University at Selinsgrove.
" 10,	Dickinson Seminary at Williamsport.
" 29,	Muhlenburg College at Allentown.

**J. A. STAMBAUGH**

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## Academic

→ Charles L. Fish, of the Freshmen, has gone out in the country for the winter.

→ The Sophomores are studying the causes of the Revolutionary War.

→ The pupils of No. 11 are reviewing fractions and find them very practical.

→ Come over to the Junior room for the latest fashions as we have a "Lot a Styles" just in.

→ John La Rocque, member of the Freshmen class, will leave for the country on Friday.

→ The pupils of No. 10. are now studying about the largest cities in the United States, and find it very interesting.

→ Mr. Elias J. Charles is doing well, expects to go to a business college in Philadelphia during the winter.

→ Lottie Styles and Theo. Owl have joined the Junior class. We extend a hearty welcome to our new classmates.

→ Last Thursday afternoon, the Freshmen class held an experience meeting in their class room. Some of them gave a very interesting account of their summer's outing in the country.

→ The Sophomores welcome the following new classmates: Olga Reinkin, Irene Brown, Josephine Gates, Lucy Conlon, Elsie Schenandore, Ralph Waterman, Earl Doxtator, Harry Cummings.

→ The cotton planted last April in No. 11 experiment garden now has well developed forms. In a week or so the bolls which are there will open and lo, there is the cotton. Who said cotton would not mature in Pennsylvania? So far as we know this is the only cotton ever matured in the state in the open air.

→ The country experiences of the different members of the Sophomore class were very interesting. A note of good cheer ran through all of them as the memory of things that seemed trying but had worked out all right were recalled. Many a "country mother's" heart would have been made glad could she have heard some of our girls say "They treated me just like their own child."

## Personal and Otherwise

→ Mr. and Mrs. Francis Freemont, of Oklahoma, expect to leave for Macy, Neb., in a few days.

→ Mrs. Peters (Celinda King) is keeping house on their own prosperous little farm. John Schenandore and Lillian Archequette are also doing well in their home.

→ Mr. Joel Tyndal, a member of Carlisle's first graduating class, has been for several years employed in several Indian schools of the west, and is now Industrial Teacher at Albuquerque, New Mexico.

→ Chauncey Archiquette, Class 1899, who for the past year has held a clerkship in Mr. Hudson's office has been promoted to a clerkship at the Osage Agency. We congratulate Chauncey on his promotion.

→ Mrs. Woodbury (Miss Edith Smith) has been visiting her home in New York for several weeks during the summer but lately returned to Brien, Col., where she is employed as teacher.

→ A letter from Victor Johnson informs us of his intention to attend Dartmouth College this year. He has been working in a lumber camp near his home in Washington, at a salary of two and a half dollars day.

→ Mr. Cole the son of Thomas Cole, arrived last Wednesday with the following students: Thomas H. Tarbell, Michell Arquette, Louis Bero, Charles Cormers, Mitchell Squire, Thomas Smith, Abram Cole and Philip Ransome.

→ The ARROW is indebted to Stella Sky for many bits of news concerning ex-Carlisle pupils who are now living in Oklahoma. Stella returned to Carlisle this fall in excellent health. She has been at home, but seems pleased to return to school again.

→ Miss Maggie Reed of Cherokee, N. C. is getting along finely, and enjoys the refreshing breezes of the land of the sky. She intends staying home with her mother, but wishes to be remembered to her Carlisle friends. Other returned students seem to be making good use of their training got at Carlisle Indian School.

## LOCAL MISCELLANY

### Personal Points and Pungent Paragraphs Pertaining to the School in General

→ A party of girls left for the country last Tuesday morning.

→ Fred Brushell is said to be employed in a large factory in Wisconsin.

→ A party of twenty-five girls left for the country last Tuesday.

→ Lucy Crow from Pine Ridge is a new pupil who came recently.

→ Flora Jamerson was working at Chautauqua this summer.

→ Mr. and Mrs. W. Charles are expected to return soon.

→ We hear that Dora and Frank Cook have entered Haskell, which is nearer their home than Carlisle.

→ Mrs. Spencer (Lydia Flint) is small boys' matron at the Wyandot School in Oklahoma.

→ Julia Lazore and Jemima Doctor have gone to their homes in New York for a little visit.

→ Miss Emma LaVatta has been appointed 2nd sergeant of Company A, in the Girl's Quarters.

→ Truman Doxtator, of Class '04, is working as helper in a printing office at Wittenburg, Wis.

→ The Misses Cowdrey entertained Marie McCloud and Annie Coodlallook very pleasantly one evening last week.

→ Ernest Sutton returned from his home at Conesus Lake last week bringing with him his brother Henry.

→ Solomon Webster is doing very well as agent for a photographer who makes a speciality of enlarging pictures.

→ Lydia Gardner (Mrs. Gibo) is doing well at home in Oklahoma where her husband is running a blacksmith shop.

→ Favorable reports come from Joseph Saunooke and Johnson Owl who are tilling their own farms in North Carolina.

→ Louis Nash is working with a doctor in the country. He has started in school already and is much interested in his work.

→ Bessie Charlie, who has spent her vacation at home, now longs to be in school again. She is expected in Carlisle soon.

→ Mrs. Kennedy (Ollie Choto) is living at the Wyandot school in Oklahoma where her husband has the position of school farmer.

→ Jonas Metoxen, the Jonas Meet-the-ox of football fame, is now devoting all his time toward the improvement of his farm in Oneida, Wisconsin.

→ A letter was received from Lottie Hilton who is in Los Angeles, Cal., saying she is getting along very well and she often thinks of her friends at Carlisle.

→ Stella Ellis, who has been spending the summer at her home at the Sac and Fox Agency, returned last Saturday. Clara Ellis and Sadie Ingalls came with her.

→ Moses Raub is gradually improving and is now able to be about the grounds. He was paralyzed in his lower limbs but will soon entirely recover.

→ Willard Gansworth who was playing piccolo in the band at Long Branch this summer, stopped off in Philadelphia where he expects to obtain work for the winter.

→ Job Moore is doing exceptionally well with his farming and stock raising. So diligently has he worked since leaving Carlisle, that he is called a "hustler." That wins.

→ We hear that William Traversy has lately been put in charge of his father's ranch in So. Dakota. We wish him the best of success in that well-paying occupation.

→ Samuel Miller, Samuel Brushel and Phillip Tousey are married and getting along very nicely at their homes on the Stockbridge reservation in Wisconsin.

→ Prof. Dennison Wheelock on account of poor health has spent several months at his home in Wisconsin. According to latest reports, we are pleased to know that he is improving.

→ Lucy Coulon, who returned from her home in Wisconsin appearing well and happy, gives very encouraging reports concerning several returned students she met last summer.

→ Josiah Powalas, a Carlisle graduate is now physician of the Oscida Hospital in Wisconsin. Many will remember Mrs. Powlas (Electa Schenandor) who is also a student of our school.

→ Little Dorris Shoemaker, daughter of Doctor and Mrs. Shoemaker, has started to attend the kindergarten in town.

→ Marie Arteshaw, who left for the country last April, has decided to remain there this winter. She is living at Sharon Hill, Pa., and she thinks it a nice place.

→ The many class-mates and friends of Moses Raub were glad to see him out of the hospital, where he has been confined for some time, we hope he will soon be able to attend school.

→ John Miller, of Class '03, is in business as a proprietor of a large and fine restaurant in Shawano, Wisconsin. John is well remembered by us as the faithful janitor of the school building.

→ Christ Eastman, of Class '99, has for several seasons attracted considerable attention in the west because of his excellent record as a pitcher in different teams of the 3-State League.

→ Charles Doxtator who left our school a few years ago has been employed in a large shoe factory in Green Bay, Wisconsin. Charles has done his work so satisfactorily that he has been promoted several times.

→ Doctor reports that there has been very little sickness in the hospital this summer. Last week the sick roll consisted of only two members. This is somewhat unusual in such a large school as Carlisle, as it has not occurred before for several years.

→ John Foster, the son of our teacher Mrs. Foster, after graduating from a commercial college in Philadelphia has been for some time filling the position of private stenographer in that city. He is located in the Broad Street Station and does very creditable work.

→ Frank Mt. Pleasant returned to the school last Saturday night. He graduated from the Dickinson Preparatory School last spring as many remember, and expects to enter Dickinson proper this coming season. We will probably see him again this year on the foot-ball field.

→ Mr. Glen Warner returned to Cornell last Saturday where he will start to work with his own team. He has been assisting our coaches, Mr. Pierce and Mr. Hudson, and the great help he gave our team will undoubtedly show more a little later in the season.

→ Fred Smith, who has been with the band this summer, left for his home last Tuesday evening. He has gone to Wisconsin from where he expects to fill a position as band-master and clerk in a neighboring school. Fred is one of Carlisle's graduates and remains in his work, as much of a credit to his alma mater as when he Mrs. Mercer.

→ A letter to Miss Gaither from Myrtle Evans gives the following appreciative remarks about her country home. "I like my country home. You could not have sent me to a better place than here. I will try and do my very best so that my country people will love me as I have learned to love them already." We are pleased to receive such reports from our students in the country.

→ Miss Yarnell and her mother and Misses Bowersox and Hill spent Sunday afternoon enjoying a drive to Sterrets Gap. They ate their supper at the highest place where they could look down into Perry Co. They brought back the smell of the woods, some goldenrod which they shared with others, and a picture of green chestnuts which they hope to share later in the season.

→ Louis Paul bid us good-by last Monday with happy smiles which he was unable to suppress. After spending a part of last Spring in Philadelphia, he joined Carlisle band as oboeist and continued with us until our Long Branch engagement expired. He has been away from Alaska for the last five years, and thoughts of returning home might well make him smile. We hope for him the best of success.

→ Nicodemus Billy returned from Chautauqua several days ago in splendid health. He was the only Carlisle representative there last summer, but won enough laurels to satisfy four ordinary men, since he returned with four medals; one for his victory in shot putting, another for hammer throwing, another for pitching the discus, and another for hurdling. He won second place around championship, and got second place to the well-known Parry of Chicago.

## Industrial

→ Charles Driskell says he likes his job as a cook.

→ A few of the girls have been promoted in the sewing room.

→ The tailors are again busy with the uniforms for the officers.

→ A large force of boys are working for Mr. Justus, at the Parker farm cutting ensilage.

→ The plumbing and heating apparatus are being installed by Mr. Weber in the new Art Studio.

→ Theresa Brown who is working in the dining hall says she enjoys her work very much.

→ The masons are laying the foundation for the porch on the new studio.

→ Mr. Gardener is repairing the dairy at the first farm. They are also putting in a new machine.

→ May Wheelock is working in the dining room this month, she says she likes her work very much.

→ Eli Pizzoni and the steam fitters are finishing the work on the banister of the fire escape of the Auditorium.

→ The sewing department is busy making new winter uniforms for the girls. Several hundred have already been made.

→ Isaac Gould is to be congratulated on his good work in kalsomining the interior of the new art gallery.

→ The dressmakers are kept very busy fitting out new uniform dresses for the many new girls.

→ The clothes-girls are kept very busy straightening out the clothes rooms and marking boxes for the new girls.

→ This morning I work in the carpenter shop. Yesterday I working down fram-er. Sometime I am work allover.—*Sic.*

→ John D. Laroque who is working in the bakery says that he does not work very hard but watches dough mixer, and says it does it "slick."

→ The mason force has been increasing in number since the return of the country students, and all are taking a firm hold of the new trade.

→ Mr. K. H. Baker arrived last Monday to fill the position of instructor in the printing office. He comes from Washington, D. C. where he has been employed in the Government Printing Office for several years. The boys spur ahead in their work under their new teacher, and readily adopt his practical motto "Work with your head and not with your feet". Mr. Baker's practical experience in this line of work promises valuable assistance to all students in his department.

## Arrow Heads

→ Rosabelle Patterson, '06, who returned to her home at Irving, New York, the latter part of August, writes that she is enjoying herself and expects very soon to start school in Rochester, N. Y.

→ Miss Wood led the meeting in the auditorium last Sunday evening. She read and explained in an interesting way, the twenty-third Psalm. We had a great deal of singing by the student body but we especially enjoyed the duet given by Josefa Maria and Elizabeth Walker and also the Quartette of Y. M. C. A. boys.

→ Vincent Natalish, class 1901, is now superintendent of a bridge construction company in New York. Although he has already reached a higher goal than he had hoped to reach when he applied to the company for employment and is able to demand a salary of seven dollars a day, he continues to study diligently during his off-work hours. Here is another one who is learning to turn his opportunities into gold.

→ The progress which some of our girls made while in the country last summer is remarkable. Girls who were unable to speak or understand English when they entered the school last September are now able to work and study quite intelligently. Some of those who deserve special mention are Ida Baker, Rena and Hattie Redeye, Annie Bero, Ida Sands and Grace Sampson. The country mothers who worked so patiently with these girls also deserve great credit.



## What the Farmer Can Do With Concrete

(Continued from first page)

height of more than four feet without mixing it again at the bottom. For greater heights than this it may be slid down a wooden incline. Where fresh concrete is put upon that which is already set, it is well to coat the surface of the old work with a thin coating of rich cement to insure a good bond.

It is not well to work concrete in cold weather, unless great precautions are taken. Very little water should be used in such cases and it is better to use it hot. A little salt sometimes is helpful also as it lowers the freezing point of the water. One pound of salt to eighteen gallons of water is a good proportion. Unless it is necessary however, it is better not to work with concrete in freezing weather.

In order to put concrete to practical uses, wooden forms or moulds are necessary until it hardens. It will take any shape that you wish it to, and when it has set the form can be removed. Lumber that is used for this purpose should be dressed on one side and both edges, and it is better to use green lumber when possible as it is less apt to swell and warp. To prevent concrete from sticking to forms they can be coated with soft soap. Sometimes the expansion of the boards can be overcome by bevelling the edges. The lumber that is used in making these forms can be used any number of times provided that reasonable care is exercised in taking the forms out when the concrete has set.

### REINFORCED CONCRETE

In considering the subject of fence posts the question of reinforced concrete is brought up. That is concrete in which wire or iron rods have been embedded to increase its strength. While standing almost any amount of pressure, concrete alone is not satisfactory when it is liable to be pulled or bent, as in beams, floors, walls, or tanks—in other words while it has unlimited strength in compression, its strength in tension is faulty, besides like any natural stone it is brittle.

Reinforcement is often very important and to obtain satisfactory results with concrete the need of some reinforcing material in a great many cases must be realized. It is well to take counsel with an expert when any extensive work is to be done. A practical application of reinforcement would be this: Suppose you are about to build some concrete posts. When the forms are made and before pouring in the concrete, place some old barb or bale wire or steel rods in the forms in such a position that they will take care of the strain. If this not done some of the posts are sure to break when the wire is stretched. Wood is often unsatisfactory as a reinforcing material and should never be used. Although steel is put in a wet mass, the air is kept from it and it does not rust.

### HOW TO FIGURE THE COST OF CONCRETE.

A very common mistake in estimating the amount of concrete that will be required

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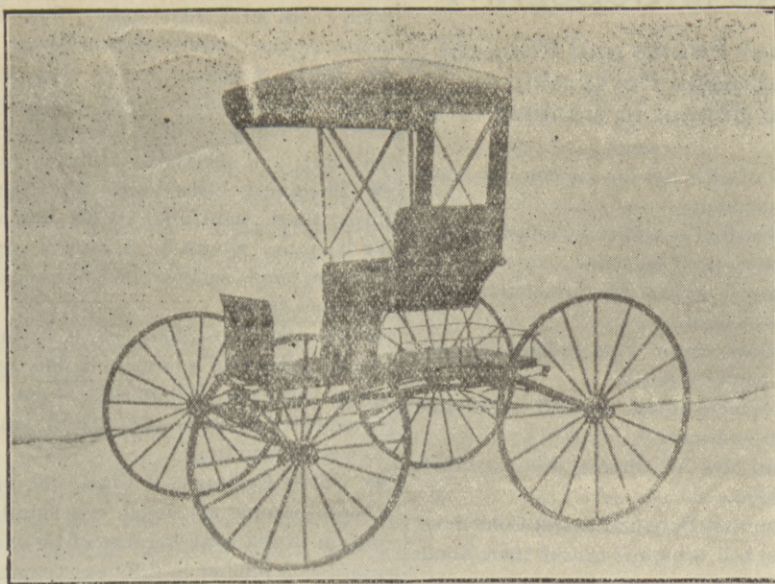
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to fill a given space or the number of cubic feet, is that to assume that ten barrels of broken stone, five barrels of sand, and two barrels of cement, for instance, will make seventeen barrels of concrete. From such a mixture, the quantity of concrete obtained would be but slightly greater than the amount of cracked stone used, because the cement simply fills the spaces between the stones. Keeping this in mind it is easy enough to figure the cost of concrete work. When you know how much a barrel of cement costs in your neighborhood and the cost of sand and cracked stone, you can estimate the number of cubic feet in the mass you are going to build by multiplying the length, breadth, and height together. Then figure the amount of cracked stone you will need and let it serve as a basis for your calculation. If, for example, it will take five barrels of cracked stone to fill the space, you will need one barrel of concrete where the proportion 1:2½:5 is used.

One of the principal uses of concrete that

will interest a farmer is in making posts. The claim is often made that they are cheaper than wooden posts. But that depends entirely on local conditions, the cost of labor and many other factors. This calculation made by an expert, shows that if you can make thirty posts from a yard of concrete they will cost about fourteen cents apiece.

For one cubic yard of concrete there will be required:  
1.45 bbls. cement at \$1.60 ..... \$2.42  
0.95 yds. gravel at 0.40 ..... 0.38  
0.45 yds sand at 0.40 ..... 0.18  
Labor of mixing and ramming ..... 0.50  
Cost of forms (including handling and cleaning) ..... 0.10  
Steel reinforcement ..... 0.57

Cost of 30 posts ..... \$4.15  
Cost of one post about ..... 14.

This is a very low cost and could not be arrived at in practice unless the posts are made in very large numbers. No allowance has been made for breakage, water, cost and depreciation of plant, cement testing, etc.

Forms for making fence posts can be bought for ten or twelve dollars, and there

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are a great many types on the market. It is a comparatively simple matter, however, for a farmer to make his own forms. Fence posts made of reinforced concrete will last a long time. They are fire, frost and rust proof. They require but little repairing, or replacing, and improve with age. When set in swampy land where wooden posts would be very short lived, they become harder and stronger all the time. It has been claimed that the boards attached to them are less apt to rot off, because the concrete draws the moisture from them. In a neighborhood where concrete fence posts are not in general use, and where wooden posts are comparatively scarce, it is quite possible for a man to build up a profitable business in making them.

For general purposes on a farm a post should be six inches square at the bottom, about three and half inches square at the top, and six and a half feet long.

Any holes or staples that will be necessary to attach the fence wire should be provided for before the concrete sets.

Another very important use to which concrete has been put in the last few years, is in the manufacture of hollow building blocks and cement bricks of various shapes and styles, some of the former very closely imitating natural stone. There are all sorts of moulds made for making these concrete blocks, and some very artistic effects are obtained. An outfit that will enable a man to manufacture blocks for himself and his neighbors and perhaps to build up a lucrative business can be bought for \$50 or less. The moulds for making tile pipe, which is another important use for concrete can be bought for \$15.

There is no question but that concrete is getting to the front, and what a few men are doing to-day, will be the common practice a few years hence. Some substitute for wood must be found, and reinforced concrete seems to fill the bill. Getting ready to use concrete as a rule costs more than getting ready to use wood, but having done this, sometimes the actual cost of the material and labor will, in certain work, be less. But whether it is or not, there are lots of cases where concrete is so much better that the cost should not be considered.

In the modern sanitary cow barns where thorough washing is absolutely necessary and where simply by cleanliness they have reduced the bacteria in milk from a million in a drop to a hundred in a teaspoonful, wood is out of the question. Such sanitary conditions would be impossible with wooden floors, partitions, beams and feeding boxes. In pig pens, also, concrete has been used with great success.

There are a number of farms where almost everything is constructed of concrete, but while this is interesting it is carrying the idea to an extreme. The average farmer is not interested in spending unlimited time and money simply to demonstrate its possibilities. He is willing to take the other fellow's word for that. But what every farmer should do is to carefully consider just what value it will be to him, and when it will pay him to use it. A careful consideration of this question, taking into account durability, cleanliness, the cost of labor and attractive appearance, will often result in deciding in favor of concrete, where heretofore one has been accustomed to build of wood as a matter of course.—*Farming.*

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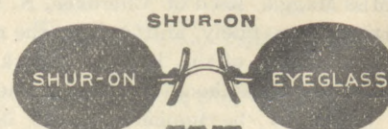
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