

COAL LOADING BY MACHINERY.

Mechanical loading of bituminous coal is spreading rapidly in America's mines, according to a statement just made public by the Bureau of Mines, Department of Commerce based upon a study by the Bureau.

Increase in mechanical loading in soft coal mines is estimated at about 60 per cent. Incomplete reports for 1927 indicate rapid progress in the installation of machinery.

While only 1.8 per cent. of the total output of soft coal in this country in 1926 was mechanically loaded, it is stated, in some States a considerable part of the production was loaded by machinery. Of seventeen States for which figures are given separately, Wyoming led with 17.6 per cent. of the total output loaded by machines, followed by Indiana with 9.3 per cent. and Virginia with 7.7 per cent.

A summary of the study as made public by the Bureau of Mines follows:

In 1926 a total of 10,022,195 tons of bituminous coal was loaded mechanically by 455 machines in 131 mines. In addition there were 33 other mines reporting 43 loading machines in which the use of the machine was still in the experimental stage only.

These figures do not include or a few machines that were used in 1925 and will be used again but which loaded no coal in 1926.

There is in use in the coal industry a wide variety of mechanical devices designed to reduce the labor of hand shoveling into mine cars and to facilitate the work of transporting the coal from the point where it is shot down to the place of delivery to the rail transportation system of the mine.

Devices which make possible loading most of the coal handled without hand shoveling include loading machines; combined cutting and loading machines; scraper loaders; with trough conveyors, equipped with shovel attachments at front end such as the so-called "duckbill" conveyers equipped with a cutting device; and also certain "self-loading" conveyers designed to receive the coal as shot down. Strictly speaking "self-loading" conveyers are not loading machines, but they are stated to load out from one-third to a half or even two-thirds of the coal without hand shoveling and they have therefore been included.

There are other face conveyers and mine-car loaders on which practically all the coal has to be shoveled by hand, although such devices, by reducing the height to which the coal has to be lifted by the miner, greatly reduce the labor of hand shoveling.

Complete statistics covering the use of hand-loaded face conveyers in 1926 are not available, but the information at hand indicates a considerable number of installations of this type, particularly in central Pennsylvania.

Statistics of mine-car loaders, of which the Jeffrey pit-car loader is the principal type, have been collected by the bureau for 1926, but can not be published without disclosing the business of individual manufacturers. It may be said, however, that the mine-car loader has been widely introduced, especially in Illinois. From the information available it appears that the total quantity of coal handled by mine-car loaders and hand-loaded face conveyers in 1926 was over a million tons. Added to the 10,022,195 tons loaded by machines, this gives a grand total of more than 11,000,000 tons produced by "mechanized" mining in 1926. In its statistical report for 1927 the bureau plans to include a complete analysis of the use of conveyers.

Allowing for these differences in classification, it appears that the increase in the quantity handled by machines from 1925 to 1926 was between three and a half and four million tons, and the percentage of increase may be placed at approximately 60 per cent. Thus, although an exact comparison can not be made, it is clear that there was a very large growth in the quantity loaded by machine from 1925 to 1926.

For 1927 the reports are not yet complete, but those received indicate rapid progress in the number of machines installed.

Let's All Move to Armagh.

Pennsylvania has at least one borough where taxes are not necessary every year. The borough is Armagh, Indiana county, a community with a population in 1920 of 110 and the present day population is approximately that same figure.

In collecting tax statistics throughout the State, the Department of Internal Affairs made inquiries in Armagh as well as all of the other boroughs in the State. Tax collector Martha E. Tomb replied that in 1926 a five mill tax for borough purposes was levied on taxable property assessed at \$81,085. The tax collected amounted to \$394.13 and the tax collector explained that this amount was sufficient to care for the borough's needs in 1926 and likewise that it permitted a surplus so that no additional tax was needed in 1927.

Hunting Licenses Must Await Special Plates.

Treasurers of fifty-four counties in the State were instructed to cease issuing hunting licenses until they have been provided with special plates which will permit the holders to kill a doe.

The order from the State game commission here today followed the decision last night to again modify the ruling which will legalize killing of does next December.

A PENNSYLVANIA CRUSADE AGAINST WHEAT SMUT.

Starting next Monday, at Newberry, a wheat smut control train will pass through 19 Pennsylvania counties and 2 counties in New Jersey. The Pennsylvania State College will cooperate with the Reading railway system and the Central Railroad of New Jersey in operating the train.

During the past seven years stinking smut has risen from a place of almost no economic importance to that of being the most destructive disease of wheat. For the past three years the annual toll exacted from Pennsylvania farmers has averaged 1,000,000 bushels a year.

On the train thousands of bushels of wheat will be treated with copper carbonate dust, which controls stinking smut. The service will be principally for growers residing in sections inaccessible to commercial treating machines installed in mills. Millers also are invited to visit the train to see the various types of machinery which can be employed to control the smut.

Stops will be made in Lycoming, Union, Northumberland, Seneca, Berks, Lebanon, Dauphin, Cumberland, Franklin, Adams, Lancaster, Carbon, Northampton, Montgomery, Chester, Bucks, Philadelphia, and Delaware counties in this State and in Mercer and Somerset counties, New Jersey.

STATE BANKERS MEETING AT STATE COLLEGE.

The agricultural committee of the Pennsylvania Bankers' Association and the county key bankers, representing every county in the State, will spend three days of this week inspecting the school of agriculture of the Pennsylvania State College. Dan O'Leary, director, and other representatives of the agricultural commission of the American Bankers' Association and the officers of the State association, will be in the party. W. S. McKay, of Greenville, is chairman of the agricultural committee. Approximately 100 bankers are expected to make the trip.

The bankers, who maintain close contact with the extension service of the School of Agriculture, will spend the three days in study and inspection of the agricultural experiment station on which the extension service is based. During their stay at the State College they will observe the progress of various experiments and have opportunity to talk to scientists on the staff who are carrying on agricultural investigation.

Dr. Ralph D. Hetzel, president of the college, and Dean R. L. Watts, of the School of Agriculture, will address a meeting of the bankers Friday night.

Now Making Small-Sized Money.

Production of the new small-sized United States currency was begun by the Bureau of Engraving and Printing on August 7, according to an oral announcement by the Assistant Secretary of the Treasury, Henry Herrick Bond.

The first sheet, comprising 12 one-dollar bills, has been pulled from the presses and henceforth the number of presses will be increased and the quantity of bills enlarged and the printing will go steadily forward until \$1,000,000,000 bills have been turned out. These will include denominations of \$1, \$2, \$5, \$10, \$20, \$50, \$100, \$500, \$1,000, \$5,000, and \$10,000, and as fast as they are printed they will be stored for aging that their circulation life may be maximum when they are released.

The size of the new bills is 6 5/16 by 2 11/16 inches, whereas the size of the bills at present in circulation is 7 7/16 by 3 1/8, the new bills being approximately one-third smaller than those which they eventually will replace.

It has not been definitely determined yet when the new currency will be released for circulation, but it is expected about July 1, 1929.

Erect 70,000 Signs on New Road Schedule.

Erection of 70,000 highway route markers six hours ahead of schedule and the entire job completed within forty-two hours recently was accomplished by the Pennsylvania department of highways. Markings now conform with the State and federal system adopted by the department some months ago.

Users of department tourist maps will find the new route numbers on the 1928 edition of the map. The new road markers in conjunction with the warning signs and "Thru-Stop" markers provide a complete guide to the traveler.

JACKSONVILLE.

Willard Weaver spent Sunday at Bellwood, visiting friends.

Mrs. Mabel Peck spent Monday afternoon with Mrs. Mervin Hoy.

There will be a festival in Jacksonville Wednesday evening, August the 22nd.

The annual Lucas family reunion was held, Saturday, with a nice day and a very good turnout.

Mr. and Mrs. Mervin Hoy spent Sunday at John Korman's, and also attended the emerging services at Milesburg.

Mrs. Mabel Peck spent the weekend at the Harry Hoy home. On Sunday they called on Mr. and Mrs. Luther Fisher and family.

Mr. and Mrs. John Korman and daughter Dorothy, of Curtin, and Mr. and Mrs. William Ohland and daughter Betty, of New Jersey, spent Wednesday evening at the home of Mr. and Mrs. Mervin Hoy.

Mrs. Walter Winslow has returned to her home in Philadelphia, after spending three weeks at the home of her parents, Mr. and Mrs. Ephraim Lucas. She was accompanied home by her mother, father and brother Vincent, and mother-in-law, Mrs. Winslow.

HOW TO SOLVE A CROSS-WORD PUZZLE

When the correct letters are placed in the white spaces this puzzle will spell words both vertically and horizontally. The first letter in each word is indicated by a number, which refers to the definition listed below the puzzle. Thus No. 1 under the column headed "horizontal" defines a word which will fill the white spaces up to the first black square to the right, and a number under the "vertical" defines a word which will fill the white squares to the next black one below. No letters go in the black spaces. All words used are dictionary words, except proper names. Abbreviations, slang, initials, technical terms and obsolete forms are indicated in the definitions.

CROSS-WORD PUZZLE No. 1.

1	2	3	4	5	6	7	8	9
	10				11		12	
14	15		16			17		18
20	21		22			23		24
25		26		27			28	29
	30		31		32			33
34				35		36		37
		38			39		40	
41	42		43			44		45
46		47		48			49	50
51			52		53			54
	56			57		58		59
								61

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Horizontal.

- 1—Middle western state
- 6—To utter musical sounds
- 10—Puts out
- 12—Pine trees
- 14—Negative
- 16—Period of time
- 18—Meaty part of fruit
- 20—Two-wheeled vehicle
- 22—Observes secretly
- 24—To prohibit
- 25—Snow vehicle
- 27—Kinds
- 29—Preposition
- 30—Organs of the head
- 32—A direction
- 34—Darts
- 36—Kind of Malayan skirt
- 38—European country
- 40—To diminish
- 41—Boy's name
- 43—Takes one's part against another
- 45—Church benches
- 46—To knock
- 48—Roman historian
- 50—To observe
- 51—A journey
- 53—Gave a dose
- 56—To rip
- 58—Compact
- 60—Heavenly body
- 61—Rains ice-like particles

Vertical.

- 1—Monarchs
- 2—Negative
- 3—To bring suit against
- 4—Snakes
- 5—Hats
- 7—Preposition
- 8—To arrest
- 9—A kind of worm
- 11—Hair
- 13—A lath
- 15—One who oils
- 17—Main character in a novel (pl.)
- 19—A time
- 21—Cogs
- 23—Kind of hay
- 26—Lets fall
- 28—Leather strip
- 31—Rustic lover
- 33—Sharpens a razor
- 34—To avoid
- 35—Took a stand
- 37—Of more recent origin
- 39—Same as 48 horizontal
- 42—An arrow
- 44—Song by one (pl.)
- 45A—Benches
- 47—Pastries
- 49—To vend
- 52—To stroke gently
- 54—To expire
- 56—Sun god
- 59—Prefix meaning undoing of an action

Solution will appear in next issue.

Maharajah Says Indian Princes Have Hard Lot with Little Money.

The belief that Indian princes and maharajahs are fabulously wealthy potentates who live in gorgeous state is wrong—such a condition of affairs exists only in the minds of romantic novel writers.

The authority for this statement is the young and handsome Maharajah of Rajppla, one of the members of the Indian Chamber of Princes, who is now in London in connection with Indian reforms.

"I do not know a Maharajah on whom work is not making a merciless drain," the Maharajah declares. "I do not know a Maharajah who can shed money in the way attributed to Indian princes. They have to weigh money before they spend. Many of them actually do consider dollars and cents."

"I have yet to meet the Maharajah who wants to be surrounded by marbles and silks and precious stones, or who would be comfortable surrounded in this way. I am not pleading poverty, I am pleading enlightenment. In the old days such stories might have been true. Today they are ridiculous."

The Maharajah illustrated his point by comparing his actual style of living in London with published reports. "I have arrived," he said, "I am supposed to have 25 rooms that are empowered with the rarest roses, filled with the richest scents, and decorated with the richest marbles and ivories, and to be dressed in the most gorgeous glittering raiment afire with the most costly gems."

"Actually I have a suite of five rooms. My staff, supposed to number 50, totals two. The flowers in my suite consists of one carnation, a recent buttoner. It is believed, because an otherwise possibly well-meaning manufacturer who supplies a \$5,000 automobile to an Indian prince speaks of the \$60,000 car that he has supplied. It is good advertising for the manufacturer but bad for us."

"Let a prince order a favorite brier and it becomes a \$1,000 meerschaum. Let him eat a sandwich and it becomes a meal of rare dishes served by mysteriously expert chefs."

"I come here to work the clock round. I scheme to spend as little as possible. But the old myth is trooped out, and I am making a rake's progress."

"Roses, scents, marbles and ivories. That is said of all of us. No mention of the fact that I travel by omnibus to have a pint of biters and a sandwich to save taxicab fare, or go to a saloon with. This is true. I study expenditure to that extent."

"There are Maharajahs who control millions. What we control is not a personal fortune, but a present that will guarantee good health, good food, the health and well-being of our subjects. Enlightened princes have no surplus of money to waste."

2000 Young Male Ring Neck Pheasants Were Liberated in the State.

Liberation of 2,000 young male ring necked pheasants in various parts of

Solution of Last Week's Puzzle.

H	A	N	D	R	U	N	S	H	E
A	L	E	R	P	A	L	O	L	E
S	E	R	I	A	L	B	A	T	T
V	E	T	O	S	W	A	T	E	R
O	R	E	S	T	O	E	P	E	N
G	A	S	S	T	U	T	T	E	R
R	T	P	I	E	E	A	R	R	E
E	H	O	R	R	O	R	S	R	O
S	O	W	Y	E	N	F	A	W	N
S	I	R	E	S	R	A	P	I	D
T	E	R	R	O	R	L	I	N	I
E	G	O	F	O	G	E	N	S	U
P	E	R	A	T	O	M	S	H	E

The State was announced by the State Game Commission.

The pheasants were propagated in game refuges operated by the State and the release of the 2,000 birds represented the result of the first attempt of the State to breed this variety. A number of hens will be released later this year and next spring 4,000 more male birds will be liberated.

Adequate Home Wiring Is Urged as Economy.

The comfort and satisfaction derived from a home is measured by convenience. In a modern home convenience is, to a great extent, a matter of electrical service, and the effectiveness of this service depends on the completeness of the wiring system. Complete wiring is neither complicated nor expensive.

If you are going to build a new home you plan your heating and plumbing systems as units and you make sure that they will be complete. At the same time, you should plan to install a complete electrical system, when it can be done most economically.

A complete wiring system should provide adequate outlets, conveniently controlled, using the best materials throughout and include the following nine essential elements:

- 1. A safety entrance switch (where the current comes in the house).
- 2. A safety distribution panel (where the fuses are).
- 3. A bell-ringing transformer.
- 4. Code wire.
- 5. Metal-covered conductors.
- 6. Metal boxes for light, switch and convenience outlets.
- 7. A tumbler switch at every doorway.
- 8. A minimum of one light outlet for every fifty square feet of floor space.
- 9. A minimum of one convenience outlet for every fifty square feet of floor space.

Marriage Licenses.

Charles A. Conner, of Newark, N. J., and Edna B. Glenn, of State College.

Edward R. Boob and Margaret M. Williams, both of Lemont.

Walter R. Smith and Goldie D. Altman, both of Coburn.

John Robert Orwick, of Port Matilda, and Evelyn Madeline Burge, of Phillipsburg.

Grange Encampment and Fair

BEGINNING August 25th Centre Hall, will be crowded with men and women interested in the most important business on earth, the business of Farming. Both as a social and educational event this annual gathering has much value. Farming has become as scientific as other professions and a proper social life on the farm, through modern invention, is now being realized.

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