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## WATCHING THE SHADOW BANDS

PEOPLE CALLED UPON TO HELP  
SOLVE PROBLEM.

Professor Townley Says It Can Be  
Done Without Astronomical  
Training—Gives Directions.

Prof. Sidney Dean Townley, who recently lectured in La Grande on the subject of eclipses, submits the following:

It will be possible for people who have no special astronomical training to make valuable observations at the time of the total eclipse of the sun on June 8th. The observations may help to clear up one of the unsolved problems of solar eclipses.

As darkness is coming on just before totality alternate bands of light and dark are sometimes seen on the ground. These are probably caused in some way by disturbances in the earth's atmosphere and it is said that their direction depends upon the direction of the wind at the time of the eclipse.

In order to observe the bands a piece of white cloth, the size of a sheet or larger, should be laid upon the ground and the observer should provide himself with two or more sticks or laths to lay on the cloth in the direction of the bands. In order to be of value it is necessary the exact time, within a second or so, that the shadow bands appear and disappear. It will be necessary for the observer to get the correction to his watch by comparison with the Western Union Clock either before or after the eclipse, or preferably both before and after.

The observations to be made would be as follows:

(a) Note the exact time of the appearance and disappearance of the shadow bands.

(b) Measure their width.

(c) Determine their direction by laying sticks on the ground and afterwards determining the direction of the sticks by means of a compass. At Baker, the compass needle points 21 1/2 degrees east of north.

(d) Note the direction of the wind.

(e) Note any other phenomena or circumstances which you may think have any relation to the shadow bands.

(f) Note whether or not the shadow bands are seen at the end of totality, and if so make observations similar to the above.

If observers will send the results of their observations to S. D. Townley, Stanford University, California, they will be studied and incorporated in a report to be printed in the Publications of the Astronomical Society of the Pacific.

This society was organized in 1889 as a result of the co-operation between professional and amateur astronomers in observing the total solar eclipse of January 1st of that year which was seen as total in the northern part of California. The membership of the Society is composed largely of amateurs and anyone interested in the subject of astronomy may become a member. The Publications of the Society are issued six times a year and sent to all upon the payment of the annual dues. Dr. W. W. Campbell, director of Lick Observatory, is president of the society. for the current year. Sample copies of the publications of the society will be sent to anyone interested in astronomy, upon application to the Secretary, 128 Lick Building, San Francisco, Cal.

All garden seeds 1-2 price. Closing out our balance of stock for this season. Come Quick—Cherry's Florists. 6-6-21

### DANGERS OF COSTIVENESS

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### COMMENCEMENT HELD BY COVE HIGH SCHOOL.

WALTER M. PIERCE ADDRESSED  
THE GRADUATES—A LARGE  
CLASS RECEIVES DIPLOMAS—  
MELVIN AND MURIEL RUNDAL  
AWARDED HONORS.

COVE, JUNE 6.—(Special.)—The Commencement Exercises of Cove High School were held at Maccabee Hall Wednesday evening. The program was opened by the Rev. C. C. Pratt in a particularly appropriate invocation following which Mrs. Jocelyn Roberts rendered a solo in a very artistic manner. The Honorable Walter M. Pierce of La Grande delivered the address to the graduating class. He pointed out that History repeats itself. That in every great crisis, whether in sacred or profane history the man or woman of the hour has been raised to fulfill the special mission of leading the rank and file to victory. He lay special emphasis upon the duty each graduate owed to himself to continue his educational work urging them to enter some higher institution of learning. His closing admonition to the class was to adopt as their life motto the Shakespearean Golden Rule, "To thine ownself be true and it must follow as the night the day, thou canst not then be false to any man."

Following the address Mrs. Le Roy Lay and Miss Edna Comstock rendered a piano duet "Spanish Dance"—Moszkowski, "Love Song—Faust"—Verdi, "Stand by the Flag"—Stultz.

School Board of Directors, then presented the diplomas to the graduating class and also to those passing from the eighth grade to first year high school.

Next on the program was a quartette, "Schubert's Serenade" by Mrs. Ray Barker, Mrs. J. K. Lantz, Mr. C. L. Rowe and Louie Lantz. Benediction pronounced by Bishop J. M. Mitchell.

Following are the names of the high school and eighth grade graduates:

High school—Melvin Rundall, Muriel Rundall, Alvin Lloyd, Edward Comstock, Helen Antles, Eva Roberts, Lois Comstock, Jessie Barker, Thelma Pixton, Louie McNeil.  
Eighth grade—Bunyon Anderson, Leo Baxter, Willie Bertch, Karl Stackland, Roy Richards, Earl Richards, Helma Anderson, Beatrice Wardell, Mabel Alexander, Leone Baxter, Cecil Evers, Kathrine Ofstead, Ruth Sutherland.

The stage was beautifully decorated in the class colors, old rose and white, with Old Glory in the back ground and a service flag hanging at each side, one belonging to the school and the other to the city.

Melvin and Muriel Rundall carried off the honors of the class with a record of 99 per cent or better in all their subjects throughout the year.

### LA GRANDE DEPOPULATED

(Continued from page one)

Eleventh Event—Class 42, Lot 152. Grand Champion (light-boned stallion).

Twelfth Event—Class 41, Lot 152. Grand Champion (draft Stallion).

#### Racing Program.

First Event—Three-quarter mile dash, free for all, three horses to start.

Second Event—Ladies' Relay Race. Three strings of horses must enter, four horses to the string, each horse running half mile. No unsaddling and resaddling at the end of each half mile.

Third Event—Novelty Race (walk, trot, run) three horses to start. Square walking the first quarter.

Fourth Event—Gentlemen's Relay Race. Three strings of horses must enter, four horses to the string, each horse running one-half mile, unsaddling and resaddling fresh horse at end of each half mile.

Fifth Event—Cow-boy Race, one-half mile, only cow-boy saddle horses eligible. Not less than four to start.

Sixth Event—Shetland Pony Race.

Seventh Event—Roman Race, one-half mile, two to start.

Eighth Event—Chariot Race, half-mile, two entries.

The public library will be closed during the time of darkness caused by the eclipse. It is expected that everyone who is able will be out watching the sky from 3 o'clock to 4:30, during which time the library will not be open. 6-6-21



# We are off to the Union Stock Show

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Swansdown Flour, large pkg.	43c
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This list of flours combined with the above wheat cereals make good bread

Rye Flour, 10lb. sack	68c
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Corn Flour, 10 lb. sack	68c
Rice Flour, 10 lb. sack	\$1.00
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