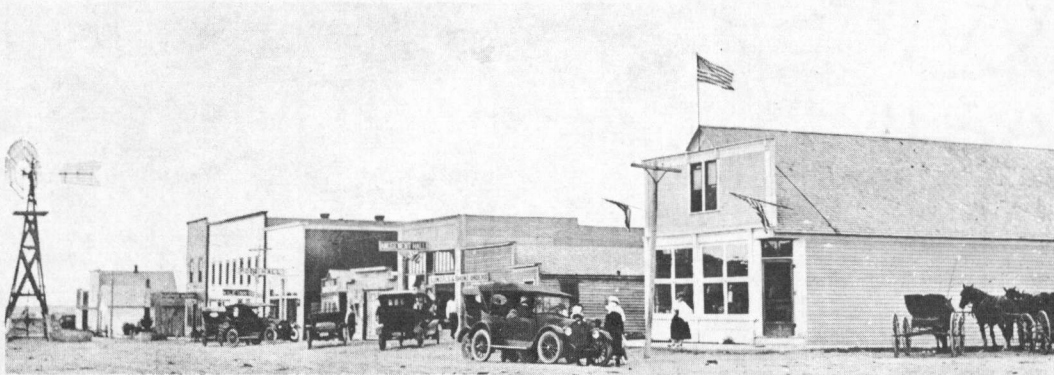


July 19, 1968

No. 109



CENTRAL STREET, RAYMER, COLORADO, 1917



CENTRAL STREET, RAYMER, COLORADO, 1968

As you might surmise from these photographs, the town of Raymer has had its ups and downs. Founded in the 1890s in the short-grass plains region of northeastern Colorado, Raymer withered away when a series of crop failures hit the surrounding area. A few years later, the farmers started to do a little better, and Raymer made a comeback. By 1917, to judge from the number of gasbuggies in the picture, Raymer must have been a thriving trade center. But by the 1920s, the whole area had started into an economic decline.

According to Mr. Clyde Stanley, one of the seven remaining inhabitants of Keota, another moribund village a few miles northeast of Raymer, "The trouble was that there wasn't enough rain. People were trying to farm in country that was too dry to be farmed." Mr. Stanley should be able to speak with authority on this subject; he homesteaded 320 acres near Keota in 1911.

Another weather phenomenon that plagued the high-plains farmers was hail. This region, in the lee of the Rockies, is subject to frequent and severe hailstorms in the early summer, and crop damage from hail has always been high.

This summer, a group of people from NCAR, ESSA, and CSU are spending most of the summer in Raymer working in a field project designed to learn

more about hail and how it may be suppressed. Bob Bushnell, who has operated his dropsonde field program from Raymer for two past summers, is using a modified M33 radar to track storms that move within a hundred-kilometer radius of Raymer. With a four-man crew of three NCAR people and one from CSU, Bob is trying to learn how to identify potential hailstorms and hail with radar.

The joint NCAR/ESSA/CSU program is supported by the National Science Foundation, with Guy Goyer of NCAR as coordinator. In addition to the radar crew, five more NCAR people are in Raymer to sample freezing and condensation nuclei, collect hailstones for analysis, and perform a variety of other field work as part of the hail project. ESSA also has a crew there to collect hailstones.

NCAR, ESSA, and CSU aircraft are participating in the project by observing thunderstorms and hailstorms, testing methods for seeding clouds with silver iodide, developing techniques for mapping hailswaths from the air, and performing other airborne research tasks. Most of the work is being done over the Pawnee National Grassland, a 15,000-acre area north of Raymer owned by the federal government.

This summer's work in the Raymer area is the first phase of a national hail modification program aimed at learning how to seed hailstorms to keep hailstones from growing large enough to do serious damage.

* * *

From now on, Virginia Cofer will serve as coordinator for information about visitors. She has designed a brief form to be filled out and sent to her by staff members who invite visitors to NCAR. The form, which has spaces for the visitor's name, address, dates of visit, and NCAR host, should be filled out and sent to Virginia as soon as the visitor has accepted an invitation to come to NCAR. She will keep this information available for the switchboard, the mail room, or anyone else who may want to locate the visitor. For further information or a supply of the forms, call Virginia on extension 510.

* * *

Lost: two interference filters, 6-mm diameter, made by Thin Films Products, Inc. If you find them, call Arden Buck, extension 711.

* * *

Reservations for the buffet supper which will follow the concert next Friday evening should be made with Bob Brown's office, extension 516, by Wednesday, July 24. Tickets for the dinner are \$2.00 per person.

Calendar Notes

July 22 thru 26, 1968

MONDAY, July 22

Open

TUESDAY, July 23

- Special Seminar -- Ionospheric Response to Magnetic Storms and Transfer of Impulses Downwards, Professor John Freeman, Institute for Storm Research, University of St. Thomas, Houston, Texas

11:00 a.m.

NCAR Mesa Laboratory, Seminar Room

Mesa Chowder and Molecule Society will not be held this week.

WEDNESDAY, July 24

Open

THURSDAY, July 25

- Noon Movie -- Thirty Days in May. Film highlights of the 1967 Indianapolis 500 mile race. Color. 26 minutes.

12:20 p.m.

NCAR Mesa Laboratory, Seminar Room

- HAO Seminar -- A Look at Chromospheres of Late Type Dwarfs, Dr. Robert Kandell, Goddard Institute for Space Studies

11:00 a.m.

HAO/AG Classroom 138

FRIDAY, July 26

- Noon Movie -- Thirty Days in May. Color. 26 minutes.

12:10 p.m.

HAO/AG Classroom 138

- Hollow Square -- Estimation of Atmospheric Ozone from a Satellite, Carl Mateer.

3:45 p.m. Refreshments

4:00 p.m. Talk

NCAR Mesa Laboratory, Seminar Room

FRIDAY, July 26 (cont'd)

- All NCAR Concert -- Andor Toth, violin and Paul Parmelee, piano.

6:15 p.m. Concert
7:00 p.m. Reception
7:30 p.m. Buffet Supper

NCAR Mesa Laboratory

Calendar Notes announcements may be called to Anne Garrelts, Ext. 281. Wednesday at 5:00 p.m. is the deadline for items to be included in the Calendar for the following week. Other Staff Notes information or comments should be addressed to Rose Dacey or Henry Lansford, Ext. 260 or 261.

NCAR

CAFETERIA MENU

LUNCHEON - Includes: Entree, Vegetable, Potato, Bread and Butter

ALACARTE

MONDAY, July 22

Soup: Cream of Celery	15¢	
● Hand Carved: Corned Beef	55¢	80¢
● Baked Stuffed Bell Pepper	50¢	75¢
● Beef Ravioli in Tomato Sauce	45¢	75¢

TUESDAY, July 23

Soup: Scotch Broth with Barley	15¢	
● Hand Carved: Broiled Flank Steak	55¢	80¢
● Barbecued Pork Ribs	50¢	75¢
● Deep Dish Chicken Crust Pie	50¢	75¢

WEDNESDAY, July 24

Soup: Tomato Vegetable	15¢	
● Hand Carved: Baked Ham	55¢	80¢

* Complete Luncheon:

Roast Leg of Pork with Dressing		\$1.00
Apple Sauce		Incl.
Mashed Potatoes		Tax
Buttered Peas		
Roll and Butter		
Apple Cobbler		
Coffee or Tea		

● Hamburger and Shell-Roni with Tomatoes	45¢	70¢
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THURSDAY, July 25

Soup: Split Pea with Ham	15¢	
● Hand Carved: Roast Round of Beef	55¢	80¢
● Polish Sausage and Sauerkraut	45¢	70¢

* <u>Patio Special:</u> Hamburger on a Bun		
Baked Beans and Potato Salad		50¢

FRIDAY, July 26

Soup: Clam Chowder	15¢	
● Hand Carved: Roast Turkey	55¢	80¢
● Ham Steak with Pineapple Slice	55¢	80¢
● Deep Fried Filet with Tartar Sauce	50¢	75¢
● Creamy Baked Macaroni and Cheese	40¢	70¢

SANDWICHES 25¢ to 55¢

SALADS 15¢ to 35¢

SIDE ORDERS

Vegetable or Potato 15¢
Bread and Butter 5¢

DESSERTS 10¢ to 25¢

Cake Pie Ice Cream
Puddings & Cobblers

BEVERAGES 10¢

Coffee, Tea, Milk
Hot Chocolate
Refill Coffee No Charge

CAFETERIA OPEN
7:30 AM

CONTINENTAL BREAKFAST

Donut 10¢ Danish Roll 15¢
Fruit Juices 15¢
Toast & Butter 10¢

Fresh or Preserved Fruit
15¢ to 25¢

Cereal with Milk 25¢
1 Egg 20¢ 2 Eggs 35¢
Bacon 35¢
Ham 45¢