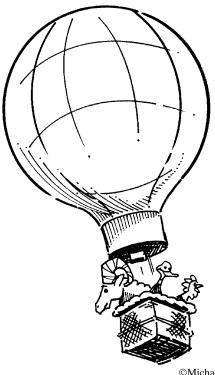
## The Misadventures of Professor DuBois

By Wally Whatsup Boulder Gazette

UNIVERSITY OF COLORADO -Tomorrow morning's long-awaited hot air balloon flight to commemorate the June 5, 1783 event that carried the first live passengers - a duck, a sheep and a rooster - aloft has been scheduled for Saturday, April 23<sup>rd</sup> at 6:00 a.m. Professor DuBois is busily gathering specimens to participate in this reenactment. The National Center for Atmospheric Research has volunteered to provide continuous atmospheric data during this commemorative flight and has designated its grounds as the official launch site.



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I	In which sector of the Eldorado Springs Quadrangle is the Nationa
(	Center for Atmospheric [NCAR] located?
2	At what azimuth is the summit of Bear Peak as viewed from NCAR?
3	State the values of the contour lines between which the NCAR facility
-	has been constructed.
just a led n trave	ware that Professor DuBois has a reputation for being rather eccentric. For example, he doesn't wan any old duck riding in the gondola of his balloon; he wants a mallard duck! After several inquiries that nowhere, he decided to contact the U.S. Department of Fish and Game. The receptionist suggested he to Gross Reservoir [Eldorado Springs Quad, W Sector 4] where he would be certain to find a mallard so liking.
4.	If the streambed of South Creek lies at an elevation of 6940 feet at the
1	base of the Gross Reservoir spillway, what is the height of the dam?
5.	In what quadrangle do the western portions of Gross Reservoir lie?
6.	In what county is the Gross Reservoir spillway located?

Although Professor DuBois's fondest desire was to send a domestic sheep aloft, he could find no one willing to lend him one for fear something dreadful might happen to it. So strong was his determination that the second animal be a sheep that he decided to trap a Rocky Mountain bighorn. By chance, a government

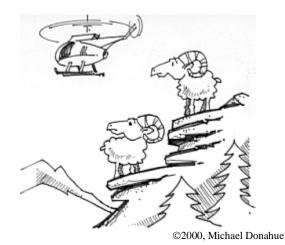
trapper learned of the professor's dilemma while listening to an early morning talk show. He immediately contacted the professor to offer his professional services.

Hoping aboard a helicopter that very morning, this unusual twosome headed directly for Coffintop Mountain [Lyons Quad, W Sector 4] where the U.S. Department of Fish and Game had been supplementing the sheep's scant food supply during the long winter now behind them.

7.	What type of control marker is located at the summit of this peak?	
8.	The helicopter set down in the flattened area between the summit or	
	Coffintop Mountain and the three-knolled peak to the northwest. What term is used to describ	
	feature?	

The unusual sight of a rapidly descending helicopter accompanied by strong winds stirred by its whirling blades set two bighorn rams to flight. In its panicky efforts to escape, one ram became entangled within a dense thicket. It took only moments for the trapper to disembark and hurriedly shackle the ram's legs. A short while later, the professor, the trapper, and the bighorn sheep were aboard the helicopter on their way to the National Center for Atmospheric Research.

mittent or perennial?



9. \_\_\_\_\_ The second ram was last spotted heading in a northeasterly direction toward Deadman Gulch. How far, in kilometers, would this ram have to travel before arriving at the point where Antelope Park Road [Lyons Quad, W Sector 4] crosses the stream flowing through Deadman Gulch

10. \_\_\_\_\_ Is the stream that flows through Deadman Gulch classified as inter-

An associate professor of Domestic Husbandry at the University of Northern Colorado in Greeley offered DuBois the loan of a rooster previously used in a fowl intelligence experiment that had yielded quite dubious results. Setting out immediately, Professor DuBois headed east on Route 7 and on to I-25 north.

During his journey, the professor frequently consulted the Colorado State highway map.

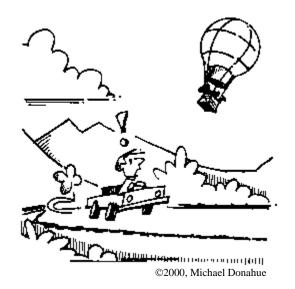
11.	After crossing the eastern neat line of the Boulder Quad [NE Sector 3]
	how much farther did DuBois travel before reaching the I-25 Interchange?
12.	What is the number of the I-25 – Route 7 Interchange onto which Du-
	Bois turned during his Northward trek to Greeley [Colorado highway map]?
13.	Use any available method to determine the distance, in miles, from the
I-25 - Route 7 Interchange where DuBois will exit onto Route 34 to head East to Greeley	
	highway map].

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14	What letter-number coordinate would have helped Professor DuBois
locate Greeley on the Color	rado highway map had he not known where that city was located?
	in Lyons, promised the professor the loan of a hot air balloon should this it. Since Lyons is located between Greeley and Boulder, the professor his return trip from Greeley.
15	Over which three routes would the Professor travel on this journey
	from Greeley to Lyons if he wishes to include a brief visit with his
	mother whose home is in Plattville? [Be certain to include both the
	highway designations and numbers.]
16	According to the 1990 census, what is the population of Lyons?
By Wally Whatsup Boulder Gazette  NATIONAL CENTER FOR ATMOSPHERIC RESEARCH – Proceedings for this morning's hot air balloon flight to commemorate the first flight in which living creatures were sent aloft are now well underway. This unmanned flight has re- ceived unprecedented approval of the FAA only because of the safety precautions being observ- ed and the potential historical significance of such a feat. Due to its being a pilotless flight, the balloon will remain securely tethered while its altitude is re- motely controlled by radio. The National Center for Atmospheric Research has forecast perfect weather conditions for this one- of-a-kind flight	Professor DuBois returned to Boulder that very day to spend a long restless night, worrying about all those things that could possibly go wrong the following day. He rose shortly before dawn and headed directly to NCAR where the fate of his ambitious undertaking was awaiting him. Operations were proceeding so well that he stole a moment to reminisce  As the balloon of his dreams slowly ascended into the clear blue Colorado skies, DuBois reflected upon those bygone days in grammar school when he first learned of the historic flight that had carried similar creatures skyward. He remembered being told how concerned the spectators had been for the safety of the creatures and how badly he had felt when he learned that the duck's wing had been broken when the sheep  A stranger's sudden, despairing shout interrupted his thoughts. "Oh no! Have I forgotten? Oh, woe is me! How could I let this happen." The balloon is not tethered! There it is! Mercy, mercy! What shall I do?" murmured DuBuis.
17	_ The balloon is drifting slowly southwestward from Table Mountain
[Eldorado Quad, NE Secto	r 3] toward Bear Peak [Eldorado Quad, C Sector 5]. Note the graticule tic
mark, a small plus-like syr	mbol, located slightly to the southeast of Bear Peak summit. What are the
coordinates at this location	?
18	What type of control marker is found at the summit of Bear Peak?

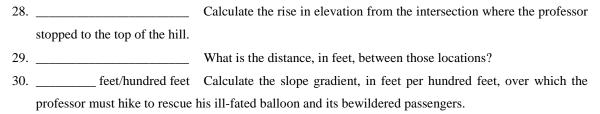
As the balloon steadily maintains its course toward the summit of Bear Peak, the professor suddenly realizes that, at its present altitude, it will crash! He quickly hits the remote to produce a blast of hot air that causes the balloon to safely ascend to a higher altitude. With the resulting rise in altitude, the balloon changes to an easterly course.

Fearing that the balloon was drifting too rapidly and that it might become entangled within power lines or set down on a busy street, DuBois again depresses the remote until the balloon rises high enough to catch a calmer with current. The balloon, fortunately, continues to drift in a northerly direction paralleling US Route 36, but at a much too rapid speed.

27. \_\_\_\_\_ How distant is the town of Lyons, by road, from the balloon's position as it drifts across the northern neat line of the Boulder Quad?



Just as Professor DuBois's car comes to a complete stop at the intersection of Nelson Road and U.S. Route 36 [Lyons Quad, SE Sector 9], he observes the balloon come to rest on the very crest of the hill to the west, labeled with an elevation of 6288 feet.



Now that the flight is over and the animals are safely recovered, Professor DuBois reflects upon the distant future. Will he once again attempt to reenact his dream? Will NCAR, the University of Northern Colorado, and the U.S. Department of Fish and Game cooperate in any future attempt to fulfill his dream? Will his friend once again lend him his hot air balloon? These are but a few questions that Dr. DuBois must ponder.

Let it be known to all that no animals were injured during this reenactment. The mallard duck is now the proud father of six little ducklings; the rooster is the subject of yet another intelligence experiment; and the bighorn sheep, although a little more wary of noises overhead, is once again roaming the craggy mountaintops of Colorado.

## 1994 Colorado State Road Scholar Exam: The Misadventures of Professor DuBois

Answer Key

Maps used in this unit: Boulder, Colorado, USGS Quad

Eldorado Springs, Colorado, USGS Quad

Lyons, Colorado, USGS Quad

Colorado highway map, Rand-McNally.

1. NE [or 3]

2. Range: 217° to 227°

3. 6080' and 6120'

4. 347'

5. Tungsten

6. Boulder

7. Spot elevation

8. Saddle

9. Range: 1.7 to 1.9 km

10. Intermittent

11. 16 miles

12. 229

13. Range: 27 to 28 miles

14. B-9

15. U.S. 85; State Route 66; U.S. 36

16. 1227

17. 39° 57' 30" N; 105° 17' 30" W

18. Horizontal

19. Louisville

20. Newer

21. Eastward

22. Range: 015° to 021°

23. N 15° E to N 21° E

24. 3.3 to 3.4 km

25. 1:24,000

26. Quite poor

27. 8 miles

28. 639'

29. Range: 3000' to 3400'

30. Range: 18.8' to 21.3' per 100'

To purchase the three USGS Quadrangle and highway maps to accompany "The Misadventures of Professor DuBois,"

visit http://www.otherworlds-edu.com