Dear Bob:

Stoddle has just sent off your paper. He has been busy on his Congress paper. I made quite a lot of suggestions, which of course, I want you to consider only as such. Not being able to talk them over, I may have given them quite a different emphasis from what you had intended.

At all, out of 106 figures, 58 had 19.5; 43 had a chain of 15, and 8 were single. Apparently most of the breaks to form chains on at the end of the pair chromosome; although of course the others one breaks very frequently (from the evidence on the number of "pairs").

In prophase, there is a lot of sliding. I have found the cross coming off on the short arm side adjacent to the insertion region, bringing the 19.5 knob at the circle. It slides on out the short arm of 15 [two figures found in the other direction] out to where the 19.5 arm of the cross consists only of a few chromosomes and on out to where these ends don't seem to reach. They simply failed to synapse. I got a few photographs but they aren't particularly good, except for my
own records. There isn't a great deal of 
unrelated slides. I wonder if epidermis 
tends to synapse first, all one 
would need to give all this sliding would be for 
attack of the different chromosomes to start in 
this process of different times, at least not at 
the same instant. Or it conceivably might be different 
rates. It might be a matter of chance, depending 
on conditions, which one started first— and this 
might vary at each division. One would expect 
sliding in all translocations, but the ones with 
equal pieces interchanged should tend to 
show the most. I will have to make 
my counts for crossing-over in a hurry, but 
last year's evidence indicated no decrease.

I worked a little on my 42-3, but figures weren't 
very good— possibly the weather has been too cold 
we are expecting a frost tonight but may miss it. My corn still needs another week or so to bring 
out the tassels.

Some more counts on #8 2nt! with chocolate out 
of 450 plants, about 1/2 were chocolate. Doesn't look 
like it is in #8. Does Emerson have any data? I am 
writing him.

Well, when are you returning west?— Will you 
be able to stop off here?

Oh yes, Cal. Tech. hasn't lost a canoe— must have 
been at Uch. I had a letter from Andy, in which 
he seemed to have very few complaints.
He even offered to give me board and room out there if I get where I want to move. I am afraid it wouldn't be too good out there, I could manage to keep my spirits up--for several reasons. I wouldn't mind stopping off at Riverside but Leslie is going to send me seeds for the tomatoes.

Have you been playing tennis? I haven't been out, but have played golf a couple of times. I saw the 4-Man. B'naware in Horse Feathers--rather good in spots, also a little raw.

What do you have that is new? Did you hear from Protestant. He wrote that there is some quadrivalent formation along with that Carmine-coral business.

Well Barb, guess I'll sign off and write for other letters.

Sincerely,
Charles

Oh yes, I see Bradley's paper in Science is out. Did I tell you I looked at Steel's 7 and didn't find any insertion regions which didn't correspond. Also there didn't seem to be as many knobs in this material. This could vary.

(That's to reopen this!)