

Cooperative Extension Work in Agriculture
and Home Economics.

U. S. DEPARTMENT OF AGRICULTURE
AND STATE AGRICULTURAL COLLEGES
COOPERATING.

STATES RELATIONS SERVICE,
OFFICE OF EXTENSION WORK, SOUTH.
FARMERS' COOPERATIVE DEMONSTRATION WORK.

REPORT OF WORK OF THE COUNTY AGENT.

CALENDAR YEAR 1916.

DUE DECEMBER 31, 1916.

STATE, Virginia COUNTY, Calhoun

REPORT OF J. Ganett Bruce COUNTY AGENT.

FROM JANUARY 1, 1916, TO DECEMBER 31, 1916.

APPROVED:

STATE AGENT.

DATE FORWARDED.

DIRECTOR OF EXTENSION WORK.

ANNUAL REPORT FORM AND INSTRUCTIONS TO AGENTS.

The agent's annual report should be a complete summary of all the work performed during the year. This is the only record that the officials of the Extension Division of the State and the Department have of the agent's activities.

The only means of making such a report is to keep field notes or a field diary of everything that is done each day. It is well to not only keep notes of things actually done, but to make some brief observations of general conditions as found from time to time. Many things which seem of minor importance to the agent may be very valuable to the head offices when asked for detailed information regarding certain localities.

An agent's efficiency and the success of his work is necessarily judged from this office by what is contained in his report. Your District and State Agent may know that you are rendering efficient service, but it is absolutely essential to have something on record to show that the work has been done, when outside parties who can not possibly inspect your work, desire definite and accurate information in regard to the results that are being accomplished in local territory.

Every agent in the work has been instructed, by circular letter and by the supervising force at agents' meetings, as to the importance of keeping systematic records throughout the year. If this advice has been followed you should have no difficulty in rendering your annual report upon the forms which are herewith submitted. These are broad enough to include the activities of the agents in the entire territory covered by the Extension Work in

the South. Some of the questions will not apply to your local territory, and these, of course, need not be answered.

In some instances you will observe that the same form is used for several crops. Be sure to use separate sheets for each crop named under the heading. For example, take the sheet headed "Small Grains", under which are included oats, wheat, barley and rye. In this case all the demonstrations in oats should be included on one sheet, all the demonstrations in rye on another, and so on for all the crops included under this heading.

Be sure to answer the questions in the order in which they are asked, and see that you give the information called for. If this is done all the reports will be uniform when they are sent in to the State Agent's office, and in like manner the State Agents' reports will be uniform when sent to the Director's office in the State and then to the Washington Office.

It should be distinctly understood that these forms are only to summarize the statistical part of the report, and under each crop or heading such remarks, observations or points of interest as may be useful should be briefly written out. The back of the respective sheets may be used for remarks on the crop reported on. No doubt many interesting features will be called to mind, which, if written up and sent in to the State Agent's office along with the replies to these definite questions, would be very valuable in giving the report that personal touch which proves of great value and interest in all reports of this nature.

In collecting the replies to the questions of a personal nature, the agent will have to depend on his tact and good judgment in approaching the farmer. A few, no doubt, will be averse to furnishing you with some of the information

asked for, but if reliable data could be collected with reference to these points, it would enable the Department to get a rather definite idea as to the beneficial effects of the demonstration work in your section.

The forms that we are sending out include the following crops, groups of crops, and other miscellaneous work of the County Agent:

CROPS:

Corn
Cotton
Tobacco
Small Grain
Hay & Forage
Cover Crops
Summer Legumes
Potatoes (Irish & Sweet)
Truck Crops & Gardens
Sugar Cane
Orchards

LIVE STOCK:

Horses
Dairy Cattle
Beef Cattle
Hogs
Sheep & Goats
Poultry
Live Stock Diseases & Feats.

OTHER WORK:

Fertilizers
Farm Manures
Silos
Dipping Vats
Seed Selection
Lime
Rotations
Pastures
Organizations
Farm Buildings
Drainage
Farm Machinery & Tools
Clearing Land, Stumps, etc.
Timber & Wood Lots
Miscellaneous Demonstration Work
Effect of Demonstration Work on
Community and Human Interest
Features
Boys' & Girls' Clubs.

If there is anything in any of these forms that is not thoroughly understood, discuss the matter with your District or State Agent or write to this Office for a more specific explanation.

CORN.

(INCLUDING KAFIR, MILO, FETERITA)
SEPARATE SHEET FOR EACH.

U.S.D.A. NO. 202 A

Carpenter Pa.
(Agent's Headquarters)J. Garnett Bruce
(Name of Agent)

1. Number of demonstrators 125
2. Number of demonstrators reporting 55
3. Total acreage of corn grown under improved methods on demonstration farms 1088 *as per report + estimate*
4. Average yield per acre on demonstrations (bushels) 46.533 +
5. Increased yield on demonstrations over ordinary methods 20
6. Number of cooperators _____ Acreage _____ Yield per A. _____ bu.
7. Number who planted pure or selected seed on their demonstrations _____
8. Number of farmers you have influenced to select seed for next year's crop 89. Estimated amount of seed selected 1500 bu.
9. Number who fall plowed their demonstration acres 63 *fall + winter plowed*
10. Number who turned under cover crops on their demonstration acres 24 *plowed seed*
11. State number of acres harvested for silage 2385 Yield per A. 10 tons, *estimated*
12. State number of acres "hogged down" _____ Value per acre when utilized this way \$ _____ *Some was "hogged down" I have no figures on this whatever*
13. State number of acres treated for diseases or insect pests Nothing done but cultivation
14. How many farmers have you influenced to use better methods in growing corn this year? I have worked with over 100 in course
15. Estimate total number of farmers in county who have been influenced to use better methods in corn growing since county agent work started 2/3 of them
16. What per cent is this of total number of farmers in your county? 66%

(FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY.)

It seems our corn demonstrations have been all one could expect.

This year we used fields only with all our demonstrations in corn and therefore we got but few reports completed.

We have lots of good seed corn and farmers are rushing with fall plowing.

At the County farm plowing for next year's corn crop is finished and plows are put under the shelter.

We would have had some big yields from river and creek lands but for extremely wet May, June & July, during this time the corn was flooded several times. Ensilage gave an excellent tonnage on a whole and was raised in good condition.

COTTON.

1. Number of demonstrators _____
2. Number of demonstrators reporting _____
3. Total acreage grown under improved methods on demonstration farms _____
4. Average yield per acre on demonstrations (Pounds seed cotton) _____
5. Increased yield per acre on demonstrations over ordinary methods _____
6. Number of cooperators _____ Acreage _____ Yield per acre in pounds _____
7. Number of demonstrators who planted pure or selected seed _____
8. Number of farmers you have induced to field select seed for next year's crop _____
9. How many fall plowed their demonstration acres? _____
10. How many turned under cover crops on their demonstration acres? _____
11. State the number of acres treated for diseases or insect pests _____
12. How many farmers have you influenced to use better methods in cotton growing this year? _____
13. Estimate the total number of farmers in your county who have used improved methods since county agent work was started _____
14. What per cent of all the farmers of your county has been reached? _____
15. Have you been able to get the farmers in any community to grow but one variety of cotton? _____ Give particulars _____

(FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY.)

TOBACCO.

1. Number of demonstrators _____
2. Number of demonstrators reporting _____
3. Total acreage in demonstration _____
4. Average yield per acre (pounds) _____
5. Increased yield of demonstrations over ordinary methods _____
6. How many farmers have you induced to plant pure or selected seed? _____
7. How many farmers have you induced to field select seed for next
year's crop? _____
8. How many fall plowed their demonstration acres? _____
9. How many turned under cover crops on their demonstration acres? _____
10. How many tobacco farmers did you influence to adopt a rotation system? _____
11. State the number of acres treated for insect pests _____
12. Estimate the total number of acres in your county which were worked by
improved methods due to the county agent's influence _____

(FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY)

TOBACCO.

1. Number of demonstrators _____
2. Number of demonstrators reporting _____
3. Total acreage in demonstration _____
4. Average yield per acre (pounds) _____
5. Increased yield of demonstrations over ordinary methods _____
6. How many farmers have you induced to plant pure or selected seed? _____
7. How many farmers have you induced to field select seed for next year's crop? _____
8. How many fall plowed their demonstration acres? _____
9. How many turned under cover crops on their demonstration acres? _____
10. How many tobacco farmers did you influence to adopt a rotation system? _____
11. State the number of acres treated for insect pests _____
12. Estimate the total number of acres in your county which were worked by improved methods due to the county agent's influence _____

(FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY.)

SMALL GRAINS.
(OATS, WHEAT, RYE, BARLEY, BUCKWHEAT.)

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

Wheat

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

- Number of demonstrators 37
- Number of demonstrators reporting 18
- Total acreage in this crop grown under improved methods on demonstration farms 456 acres from which I have partial reports
- Average yield per acre on demonstration farms (bushels) 20.153 per acre
- Increased yield on demonstrations over ordinary methods (bushels) 7 bu.
But this was so for this year
- Number of cooperators _____ Acreage _____ Yield per acre (bushels) _____
- Number of demonstration acres threshed for grain 456
- Number of demonstration acres cut for hay None
- Average yield of cured hay per acre on demonstrations (tons) _____
- Increase per acre of cured hay on demonstrations over ordinary methods (tons) _____
- Number of acres graded off None *Seized entirely* Estimated value per acre \$ _____
- Number of acres turned under for soil improvement None
- How many acres were treated for insect pests? None
- How many bushels of seed were treated for smut, rust, etc? We selected good clean seed
- How many farmers have you induced to plant this crop for the first time? The price has caused many to plant who are not accustomed to
- Estimate total number of farmers in your territory who have been influenced to sow this crop since county agent's work started Nearly every farmer sown south of this
- What per cent is this of the total number of farmers in the county? _____

I have encouraged the sowing of wheat more than usual & we have increased our acreage considerably. Our largest yields did not go over 27 bu. and this was on a 20 acre field.

The majority made around 20 bu. who were using improved methods. Then a few came a few bu. under this.

The yield for the county was not near so good per acre as it frequently is, due to, too much rain in May & June.

SMALL GRAINS.
(OATS; WHEAT, RYE, BARLEY, BUCKWHEAT.)

SPACE FOR AGENT'S USE.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

Oats.

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH

1. Number of demonstrators 19
2. Number of demonstrators reporting 7
3. Total acreage in this crop grown under improved methods on demonstration farms 86 acres from which a report was gotten
4. Average yield per acre on demonstration farms (bushels) 30⁷/₈
5. Increased yield on demonstrations over ordinary methods (bushels) 12
6. Number of cooperators _____ Acreage _____ Yield per acre (bushels) _____
7. Number of demonstration acres threshed for grain 86
8. Number of demonstration acres cut for hay or straw Many farmers had to cut for hay or straw as it was too wet to make a binder
9. Average yield of cured hay per acre on demonstrations (tons) Don't say
10. Increase per acre of cured hay on demonstrations over ordinary methods (tons) _____
11. Number of acres grazed off _____ Estimated value per acre \$ _____
12. Number of acres turned under for soil improvement None
13. How many acres were treated for insect pests? I can not say but some were given the formaldehyde treatment
14. How many bushels of seed were treated for smut, rust, etc? _____
15. How many farmers have you induced to plant this crop for the first time? I can not say because it is our custom
16. Estimate total number of farmers in your territory who have been influenced to see this crop since county agent's work started _____
17. What per cent is this of the total number of farmers in the county? _____

NOTE: UNDER "REMARKS" STATE THE NATURE AND RESULTS OF TREATMENT FOR DAMAGE OR INSECT PESTS. USE OTHER SIDE OF SHEET FOR THIS.

SMALL GRAINS.
(OATS, WHEAT, RYE, BARLEY, BUCKWHEAT.)

SPACE FOR AGENT'S STAMP

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

Rye

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH

- Number of demonstrators 63
- Number of demonstrators reporting 19 reported on the threshed rye
- Total acreage in this crop grown under improved methods on demonstration farms 249
- Average yield per acre on demonstration farms (bushels) 10
- Increase in yield on demonstrations over ordinary methods (bushels) None not any wheat
- Number of cooperators _____ Acreage _____ Yield per acre (bushels) _____
- Number of demonstration acres threshed for grain 249
- Number of demonstration acres cut for hay 219
- Average yield of cured hay per acre on demonstrations (tons) They could not tell as it was taken early and put in barns.
- Increase per acre of cured hay on demonstrations over ordinary methods (tons) _____
- Number of acres grazed off 587 Estimated value per acre: 2 to 4 for grazing and about the same added to the fertility of the soil
- Number of acres turned under for soil improvement 587 + 100 which were cut over and came second time
- How many acres were treated for insect pests? None
- How many bushels of seed were treated for smut, rust, etc? None
- How many farmers have you induced to plant this crop for the first time? 58
- Estimate total number of farmers in your territory who have been influenced to sow this crop since county agent's work started 75 to 100 *by estimation*
- What per cent is this of the total number of farmers in the county? _____

*NOTE. UNDER REMARKS STATE THE NATURE AND RESULTS OF TREATMENT FOR DISEASES AND INSECT PESTS.
USE OTHER SIDE OF SHEET FOR THIS.

Rye one of our best winter cover crops and is sought after by many of our best farmers. We can always depend on it and it makes good pasture for almost every thing and if plowed under at from 6 to 8 inches high serves to help the land and furnish some organic matter to assist the action of the fertilizers thereby giving a good cover crop.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

HAY, FORAGE, OR COVER CROPS.

(NOTE: - This form to be used for such crops as Alfalfa, Crimson, Alsike, Red, Bar and Sweet Clovers, Leapedez, Vetch, Vetch and Oats - Wheat or Rye, Crimson Clover and Oats - Wheat or Rye, Timothy, Mixed Grasses and Clovers, Sudan, Johnson and other Grasses, Sorghum, Millet, etc. Any combination of these or other similar crops should be reported on this form, the name of the crop or combination to be entered in the space below.)

Alfalfa

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

- Number of demonstrators 107
- Number of demonstrators reporting 66
- Total acreage in this crop grown under improved methods on demonstrations 3500
Including red clover alfalfa sown on wheat in the spring, which amounts to about 100 acres
- Average yield per acre on demonstrations (tons of cured hay) 3 1/2 estimated
- Number of acres cut for hay 2500 *cut this year about 1200 more sown in 1916, some old sown*
- Increased yield of demonstrations over ordinary methods (tons cured hay) all used
- Number of acres grazed off None except what was hipped or grazed where it was to be plowed up.
- Estimated value per acre of grazing \$ 2.25 *hard to estimate, the ordinary gave better results than legs.*
- Number of cooperators _____ Acreage _____ Yield per acre cured hay (tons) _____
- How many acres of legumes in this class of crops were inoculated? I bought any all but some trial plots in alfalfa & sweet clover.
- How many farmers ordered inoculating material through you from the Dept? _____
- How many demonstration acres were turned under for soil improvement purposes? Less than 50
- Estimate total number of acres in county turned under by agent's advice 45 *and more will be turned under next year.*
- How many acres were sown this fall? 1200 *Estimated. I have the numbers, but it is hard to keep up with acres.*
- Estimate acreage grown in county before county agent's work started 2 acres
- What is your estimate of the increased acreage of this crop in the county as the result of the agent's influence? Give increase by year if possible.

First year's increase	<u>172%</u>	Third year's increase	<u>800%</u>
Second "	<u>652%</u>	Fourth "	<u>150%</u>
		Fifth "	<u>60%</u>

Alfalfa has had a hard year with us. They wet
 and then very dry. We made some excellent
 crops on high clay soils 1st & 2nd but they
 were light on 3rd & 4th soils cutting because of
 the dry weather

Flat land which had been doing well was
 not so good - during the wet season but
 came in later with good crops.

The yield as a whole was as good as we
 ever had.

There were some bumper crops.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

HAY, FORAGE, OR COVER CROPS.

(NOTE:— This form to be used for such crops as Alfalfa, Crimson, White, Red, Bur and Sweet Clovers, Lespedeza, Vetch, Vetch and Oats - Wheat or Rye, Crimson Clover and Oats - Wheat or Rye, Timothy, Mixed Grasses and Clovers, Sudan, Johnson and other Grasses, Sorghum, Millet, etc. Any combination of these or other similar crops should be reported on this form, the name of the crop or combination to be entered in the space below.)

Crimson Clover

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

- Number of demonstrators *8*
- Number of demonstrators reporting *None worth reporting only 3 had it to live then the winter*
- Total acreage in this crop grown under improved methods on demonstrations *300*
- Average yield per acre on demonstrations *None cut* (tons of cured hay)
- Number of acres cut for hay *None*
- Increased yield of demonstrations over ordinary methods *None* (tons cured hay)
- Number of acres grazed off *Had but little to graze what little we got we wanted to see it under the ground.*
- Estimated value per acre of grazing *But little*
- Number of cooperators _____ Acreage _____ Yield per acre cured hay (tons) _____
- How many acres of legumes in this class of crops were inoculated? _____
- How many farmers ordered inoculating material through you from the Dept? *5*
- How many demonstration acres were turned under for soil improvement purposes? *All we got to live*
- Estimate total number of acres in county turned under by agent's advice *75*
- How many acres were sown this fall? *Very little & no better than last year.*
- Estimate acreage grown in county before county agent's work started *As much as in previous years.*
- What is your estimate of the increased acreage of this crop in the county as the result of the agent's influence? _____ Give increase by year if possible.
 First year's increase _____ Third year's increase _____
 Second " " _____ Fourth " " _____

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

HAY, FORAGE, OR COVER CROPS.

(NOTE: - This form to be used for such crops as Alfalfa, Crimson, Alsike, Red, Bur and Sweet Clovers, Lespedex, Vetch, Vetch and Oats - Wheat or Rye, Crimson Clover and Oats - Wheat or Rye, Timothy, Mixed Grasses and Clovers, Sudan, Johnson and other Grasses, Sorghum, Millet, etc. Any combination of these or other similar crops should be reported on this form, the name of the crop or combination to be entered in the space below.)

*Alfalfa, Red Clover, Orchard Grass, Tall Meadow, Cat Grass, Meadow
Fescue + Blue Grass, for pasture mixture. Cat 1st year.*
DEMONSTRATION
ENTER HERE THE NAME OF CROP. INDICATE SHEET FOR EACH.

1. Number of demonstrators 29
2. Number of demonstrators reporting 21 by estimation
3. Total acreage in this crop grown under improved methods on demonstrations 715
4. Average yield per acre on demonstrations 1 1/2 (tons of cured hay) *The acre was cut twice & made 3 tons*
5. Number of acres cut for hay About 600 *was cut 2 times for hay balance was in steady hand so was grazed.*
6. Increased yield of demonstrations over ordinary methods 1 1/2 (tons cured hay)
7. Number of acres grazed off 115 grazed after June.
8. Estimated value per acre of grazing \$ 8
9. Number of cooperators _____ Acreage _____ Yield per acre cured hay (tons) _____
10. How many acres of legumes in this class of crops were inoculated? None
11. How many farmers ordered inoculating material through you from the Dept? _____
12. How many demonstration acres were turned under for soil improvement purposes? _____
13. Estimate total number of acres in county turned under by agent's advice _____
14. How many acres were sown this fall? None this year as many on account of the extreme drought.
15. Estimate acreage grown in county before county agent's work started _____
16. What is your estimate of the increased acreage of this crop in the county as the result of the agent's influence? _____ Give increase by year if possible.
 First year's increase _____ Third year's increase _____
 Second " " _____ Fourth " " _____

I have succeeded nicely with our pasture mixtures and we got some very heavy crops of sweet hay, clover and cuttings. Practically the mixture the first year is a great advantage. It gives the alfalfa a chance to get a good start and improve the land the blue grass rarely shows much until 2nd year but if the land has been thoroughly limed + fertilized you may expect a nice quantity of alfalfa and blue grass 2nd year and, of course, as the blue grass thickens up the alfalfa dies out but in my mind and experience, blue grass will follow alfalfa better than any thing else I ever tried.

The ordinary clay soils of bulpeper can be doubled in value by sowing a crop of the above mixture provided it is limed, fertilized and a good stand of the grasses are gotten first year crops will nearly pay expenses and you have a sod for a long time worth more than double it was.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

HAY, FORAGE, OR COVER CROPS.

(NOTE: - This form to be used for such crops as Alfalfa, Crimson, Alsate, Red, Bur and Sweet Clovers, Lespedez, Vetch, Vetch and Oats - Wheat or Rye, Crimson Clover and Oats - Wheat or Rye, Timothy, Mixed Grasses and Clovers, Sudan, Johnson and other Grasses, Sorghum, Millet, etc. Any combination of these or other similar crops should be reported on this form, the name of the crop or combination to be entered in the space below.)

Timothy Toppling clover & small quantities of alfalfa & alsate
DEMONSTRATION.
ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

- Number of demonstrators 103
- Number of demonstrators reporting 33
- Total acreage in this crop grown under improved methods on demonstrations 2000
- Average yield per acre on demonstrations 23 (tons of cured hay) *or more estimation*
reporting. I estimate that 1/2 tons was made in average.
- Number of acres cut for hay 2400 *or more.*
- Increased yield of demonstrations over ordinary methods 1 (tons cured hay) *for*
ones reporting
- Number of acres grazed off 350 *estimation*
- Estimated value per acre of grazing \$ 8 to 10
- Number of cooperators 58 Acreage 2000 Yield per acre cured hay (tons) *They*
made good crops. I have gotten no reports. Estimate 1/2 tons
- How many acres of legumes in this class of crops were inoculated? *But few.*
- How many farmers ordered inoculating material through you from the Dept? *Some 25*
- How many demonstration acres were turned under for soil improvement purposes? *Second crop on 3 farms about*
60 acres. Some turned under 1st crop
- Estimate total number of acres in county turned under by agent's advice 520
- How many acres were sown this fall? *Not near so many, in account*
of high price wheat. Same mixture was used and wheat.
- Estimate acreage grown in county before county agent's work started *Not near*
so much, but hay was made here before demonstration begins
- What is your estimate of the increased percentage of this crop in the county as the result of the agent's influence? Give increase by year if possible:
First year's increase 25% Third year's increase 10%
Second " 35% Fourth " 27%
3rd year 8%. Fifth year no increase in acreage

FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE OF THIS FORM. WRITE IN BLOCK LETTERS.

I have advised all farmers to sow wheat & sow grass on it. There will be as many or more acres sown, than ever before.

There seems to be more people sowing grass
of all kinds since we have gotten them to
liming. It had gotten so we could not get
clover with the timothy sown on wheat but
liming we find we can clover and even
alfalfa with wheat.

There are lots of lands which will pay us
better to sow to timothy sapling clover & alfalfa
wheat than wheat be high.

Our heavy clay soils will pay best sown
to wheat & grass in the fall when wheat is
high.

We will, finally, get our farmers to sowing red
clover & alfalfa on the wheat in the spring and
cutting a crop in the fall, and again, next
spring in May, & plowing under second
crop in early July, and resow to alfalfa alone.

SUMMER LEGUMES.
(CONPEAS, SOY BEANS, VELVET BEANS, PEANUTS, ETC.)

J. G. BRUCE
County Agent
CULPEPER, VIRGINIA

Low Peas.

DEMONSTRATION.

WRITE HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

1. Number of demonstrators 53
2. Number of demonstrators reporting 8 can complete reports. 37 made partial reports.
3. Total acreage of this crop grown under improved methods on demonstration farms 867
4. Average yield per acre on demonstrations -
Seed (bushels) 8, Cured hay (tons) 1 1/2
5. Increased yield on demonstrations over ordinary methods -
I can not answer this question
Seed (bushels) _____, Cured hay (tons) _____
6. Number of co-operators 17 Average 325 Yield per acre -
Seed (bushels) _____, Cured hay (tons) _____
7. Total acreage of demonstrators and co-operators weighed for seed 95
8. Total acreage of demonstrators and co-operators cut for hay 1157
9. Number of acres grazed off 36; Estimated value per acre of grazing \$6.25
10. Total number of acres turned under for soil improvement 179
11. Total number of acres inoculated 221 by Department cultures 211
by inoculated soils 10
12. Give estimate of the number of acres in your territory which were planted to this crop due to your influence I can not answer.
13. If possible give the increase by years -
First year's increase _____ acres Third year's increase _____ acres
Second " " _____ acres Fourth " " _____ acres

SUMMER LEGUMES.
(COWPEAS, SOY BEANS, VELVET BEANS, PEANUTS, ETC.)

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

Soga or Soy Beans

DEMONSTRATION.

ENTER HERE THE NAME OF CROP. SEPARATE SHEET FOR EACH.

- Number of demonstrators 10
- Number of demonstrators reporting None
- Total acreage of this crop grown under improved methods on demonstration farms About 4 3/4 acres, 3 times that many mixed with
- Average yield per acre on demonstrations: I can not say. peas
Seed (bushels) _____, Cured hay (tons) _____
- Increased yield on demonstrations over ordinary methods - We are just starting
Seed (bushels) _____, Cured hay (tons) _____
- Number of co-operators _____ Acreage _____ Yield per acre _____
Seed (bushels) _____, Cured hay (tons) _____
- Total acreage of demonstrators and co-operators sown for seed _____
- Total acreage of demonstrators and co-operators cut for hay 35
- Number of acres grazed off: 11; Estimated value per acre of grazing: 5 to 7
- Total number of acres turned under for soil improvement 65 tho they were
mixed with peas.
- Total number of acres inoculated 15 by Department cultures _____
by inoculated soils None
- Give estimate of the number of acres in your territory which were planted to this crop due to your influence I can not say I have worked to
get them planted and they seem
a good crop
- If possible give the increase by years -
First year's increase _____ acres Third year's increase _____ acres
Second " " _____ acres Fourth " " _____ acres

SUMMER LEGUMES.
(COWPEAS, SOY BEANS, VELVET BEANS, PEANUTS, ETC.)

Sweet clover

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

- Number of demonstrators 4
- Number of demonstrators reporting: *Only a verbal report and that - not so we could ascertain facts.*
- Total acreage of this crop grown under improved methods on demonstration farms 80
- Average yield per acre on demonstrations - *This was grazed mostly*
Seed (bushels) the amount cut, Cured hay (tons) _____
- Increased yield on demonstrations over ordinary methods -
Seed (bushels) _____, Cured hay (tons) _____
- Number of cooperators _____ Acreage _____ Yield per acre -
Seed (bushels) _____, Cured hay (tons) _____
- Total acreage of demonstrators and cooperators threshed for seed 40 cut after it had been grazed for several months.
- Total acreage of demonstrators and cooperators cut for hay 10 acres
- Number of acres grazed off 30; *grazed all the time* Estimated value per acre of grazing \$ _____
- Total number of acres turned under for soil improvement 00
- Total number of acres inoculated all by Department cultures apart
by inoculated soils apart
- Give estimate of the number of acres in your territory which were planted to this crop due to your influence _____
- If possible give the increase by years -
First year's increase _____ acres Third year's increase _____ acres
Second " " _____ acres Fourth " " _____ acres

U.S.D. NO. 522 G.

POTATOES
(SWEET OR IRISH.)

SPACE FOR AGENT'S STAMP.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA

Irish Potatoes

DEMONSTRATION.

ENTER HERE THE NAME OF CROP - SEPARATE SHEET FOR EACH.

1. Number of demonstrators 27
2. Number of demonstrators reporting 27
3. Total acreage of potato demonstrations 5
4. Average yield per acre on demonstrations (bushels) About 200 bu.
5. Estimate number of acres treated for diseases, insects and pests, due to your influence 5
6. Estimate number of acres worked by improved methods due to your advice 5
7. Estimate number of acres in potatoes when agent's work started about same
now average.
8. Estimate number of acres increased due to county agent's work None
9. How have you been able to assist in marketing the crops? We grow our potatoes for home use + home market and we have sold all we had to spare for \$1.06 1/2 per bushel.

[FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY.]

I visited with some 27 potato demonstrators who planted and cultivated according to my instructions. They also treated the vines to kill the bugs. We had no scab on the ^{and} potatoes therefore no scab of any note on the crop.

Potatoes have been grown in our county ever since I could remember and we generally make about enough to supply the home demand, but this year we have more and I think can supply the greater part of the town.

No one has ever made a business growing potatoes commercially + unless labor conditions improve they could not grow them at a living profit. This is not because labor is so high but because it is uncertain and will not apply themselves to a kind of work long enough to handle it intelligently.

ORCHARDS.

SPACE FOR AGENT'S STAMP.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

1. Number of demonstration home orchards 96 for whom I did personal work + advised with 30 others.
Kind: Apple 2000 Peach 2000 (etc.) 50 grapes various shrubbery etc.
2. Total number of trees in these demonstrations _____ Give statement of results on reverse side.
3. Number of orchards inspected - - - - - 96, No. trees 80000
4. Number of orchards pruned due to your influence - 96, No. trees 3000
1000 pruned by me got others to prune from 4 to 6000
5. Number of orchards sprayed due to your influence - 43 No. trees 5200
6. Number of peach orchards wormed due to your influence 34, No. trees 86700
7. Number of orchards planted due to your influence - 15, No. trees 423
Peaches 1000 + 1000 on more apple trees
- TOTAL _____
8. How many commercial orchards have you assisted in caring for? 15
9. How many trees did you actually spray 11, Prune 3000 Worm 225
10. Report of special campaigns, results, etc. *I would get a few farmers together in a neighborhood give pruning demonstrations. I would always try to get neighbors together when I taught how to get out boxes from peach trees*
Did estimate that I have given a list of trees to at least 40 farmers for home orchard I gave the horticultural work + home gardeners more time during the spring than all other.
- EX. (FOR REMARKS, INCIDENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY.)

We find it is impossible for us to get this work done until we get right on the job & take hold of the work. They seem to think they can not handle the work until they work with you for a while. I have started enough work on improvements of old orchards setting out new young orchard, shade trees, grape vine raspberries, strawberries gooseberries etc together with pruning & spraying to pay the county for all they put up on my behalf, if I am capable of rendering all how est-estimate of my work.

This was a poor fruit year with less but many sold to a better advantage than before, and some few have nice peach and apple orchards coming on.

HORSES:

SPACE FOR AGENT'S SIGNATURE
J. G. BRUCE
 County Agent
 CULPEPER, VIRGINIA

1. Give number of pure blood stallions *None* and jacks *None* brought into the county this year due to your influence.
2. Give number of brood mares brought in due to your influence *None*
3. Give number of demonstrations in feeding horses or mules *I can not give the number but have worked ration for many*
4. Give number of horses or mules in these demonstrations *the not know*
 (Give results under "Remarks".)
5. Give number of horses or mules fed and cared for according to methods you have advocated _____
6. Give number of pure blood stallions in county when demonstration work started *I can't answer this*, Number now _____ *but there are about 3 Packhams of Clydesdales & 6 Ferganow Coach some standard breeds*
7. Give number of pure blood stallions in county when demonstration work started _____, Number now _____ *I know of no reason for there being any more stallions or jacks now than when the work began*

I have tried to get every farmer to keep just enough horses or mules of the best draft type to do his farm work advantageously.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

DAIRY CATTLE.

- How many head of pure bred dairy stock have been brought into the county through your influence? Bulls *I can't honestly say, but we have brought in 6 bulls & 25 cows.* Cows or Heifers.
- How many grade dairy cows have been brought into the county for breeding purposes through your influence? *I can't assure this, but we have brought in some. I have opposed this because, we have*
- How many cows have been tested at your instance to determine the profitable milk producers? *About 500 almost regularly & 100 at other times.*
- Do you carry or own a Babcock tester? *Yes but we have a regular cow tester that I test cows when I can.*
- How many farmers have been induced to feed a better balanced ration to their stock? *65* How many head of stock so fed? *The herd number from 10 to 105. I would estimate 1000 for regular dairy work (Give results under "Remarks"). about 500 for urban & calves*
Total, 651
- How many demonstrations in dairy work have you supervised? *I have assisted 43 in every way I could & worked with many more.*
- How many cows in these demonstrations? *276* (Give results under "Remarks".)
- How many new creameries established this year due to your influence? *None*
- How many pure bred dairy bulls in the county when county agent work was started? *25* How many now? *37* at the head of herds & come 8 to ten yearlings for sale.
- How many pure bred dairy cows in the county when county agent work was started? *None* How many now? *67 & some 10 or 12 yearlings for sale at reasonable prices with records back of them.*
- How many new cream routes established this year due to the influence of the county agent's work? *Probably 3 that we are shipping cream from every one of the 7 R.R. stations in the county.*
- How many cow testing associations established under your influence? *One*
- How many dairy breeders? " " " " " " *One*

The dairy interest has grown rapidly this year, in fact the production of milk seems greater than the consumption at the present. Our farmers are realizing that it costs more to produce milk owing to high priced labor, feeds cows etc. therefore the dairy men of Piedmont Pa have organized what is known as "The Piedmont Dairy Association" and we are cooperating with The Maryland and Virginia Milk Producers Association.

At our last meeting in Culpoper Pa we agreed that our dairy men should get 24¢ per gal for 4% milk; 23¢ per gal for 3½% milk, and 90¢ per gal 20% cream.

We may have to do considerable work to get these prices but it is the intention of these associations to keep hammering at this until they succeed or discontinue the milk business to a large extent and start a cooperative creamery or cheese factory whereby we can reduce to a minimum the dirt part of the whole milk. We have gotten to the stage that something must be done or dairy farmers will be poorer.

J. G. BRUCE

County Agent

CULPEPER, VIRGINIA

BEEF CATTLE.

1. How many head of pure blood beef cattle have been brought in this year through your influence: Bulls *17, but brought mostly from* Cows or heifers *3 herbed at home*
2. How many head of grade cows have been brought in for breeding purposes through your influence: *None that I know of, but we have had at home several hundred good heifers for mothers in full herds.*
3. How many beef breeding herds were started, due to your influence: *5*
4. How many head of feeding cattle have been brought in through your influence: *200 head from other counties and I located & placed 325 of feeders of home grown cattle.*
5. How many beef feeding demonstrations did you supervise: *Advocated with 17 farmers who were feeding beef cattle.*
6. How many cattle in these demonstrations? *Approx 587.*
7. On how many of these demonstrations were records kept? *Absolutely none. I can not get them to keep data.*
(Give methods, dates and results in dollars, gains made, cost of gains, total profit, etc., under "Remarks")
8. Estimate the number of beef cattle cared for according to methods which you advocated.
Number of cattle where methods were wholly followed _____
" " " " " partially " _____
(Give results of these methods and special campaigns along beef cattle lines under "Remarks".)
9. Number of beef cattle breeders' associations or clubs formed *2 this yr. 2 before*
24 Angus which were organized Number of members *9*
last year 17 Short Horn & 5 Red Blue.
10. Number of pure blood beef bulls in county when demonstration work started *Not estimated* Number now *70 but a few*
of these are yearling bulls for
11. Number of pure blood beef cows in county when demonstration work started *22; or more* Number now *111*
20 questions 9-10-11 There are pure bred cattle of all breeds
12. Give increase in shipments of beef cattle from the county by year since demonstration work started; *I can say what the increase is this year over last but there has been a steady increase at least 15% annually, but more than that*

There have been fattened in this county this year more export cattle than ever before. I can count up and have figures to show that some 1690 steers which were fed on dry feed and finished on grass and 808 fed on silage & dry feed and finished on grass making a total of 2498 cattle fattened in Culppeper which weigh ed 1000 lbs to 1350 lbs. fully one half of 2500 cattle shipped from Culppeper Co. fed and grazed in the county were export cattle.

In addition to this there were about 2500 head odd of an inferior grade, being the common cattle bought N. C. S. C. & Southern Pa to consume feed we had on hand & utilize the inferior grazing together with old cows & heifers raised in this county.

Now I can not show in figures as I would like the profit on this industry, but I can say the profit in soil fertility is great & if Culppeper Co. continues in the dairy business, beef hogs, sheep and poultry for the next 10 years the value of her lands will double.

DIPPING VATS.

1. How many dipping vats have been built this year through your influence? _____
2. How many have you helped to construct? _____
3. How many have you helped to fill with the solution? _____
4. For how many have you tested the solution? _____
5. Total number built in county by all forces during the year _____
6. Total number in the county at this time _____
7. Estimate the total number of cattle dipped during the year _____
8. Give yearly increase in the number of vats in county _____

1st year's increase _____	3rd year's increase _____
2nd " " _____	4th " " _____

HOGS.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

- How many head of pure blood hogs have been brought in this year due to your influence? *2 1/2* Boars *11* Sows or gilts *10* *In addition I have written most of our farmers who did not have a pure bred boar to get one most of which came from horse herds.*
- How many extra head of pure blood and grade sows have been bred, due to your influence? *40 to 50*
- How many herds have been started? *8 to 10 (Estimated)*
- How many hog feeding demonstrations did you supervise? *11*
- How many hogs in these demonstrations? _____
- On how many of these demonstrations were records kept? _____
(Give results in dollars, rate of gain, amount and cost of gain, total profit, detailed statements of production, etc., and attach hereto.)
- Give number of farmers, number of hogs and results of "hogging off" or grazing of crops, in same manner as above.
- How many hog pastures have you induced farmers to start? *23 fixed up.*
- Give number of farmers induced to start the growing of grazing crops for hogs *37*
- Estimate number of hogs fed or cared for according to methods which you advocated *1363*
- Give number of pure blood boars when demonstration work started *100* or *225*
- " " " hogs in county " " " *30000* Now *37000*
(*Estimation*)
- Give increase in shipment of hogs from the county by years since demonstration work started. *A steady increase*

It is hard to get farmers to make reports.
We got a few self feeders put up and hogs were
run on these feeders. The men claimed it
a howling success. I have not been able to
get the data as far I hope to before I finish this
report. (12/12/1916) have just come in from a
trip looking up data on the above, but the men
absolutely failed to give me these reports which
can not say unless they are looking for the tax
commissioners. I got a very incomplete report
from W. R. Peak. Says he has sold over \$500.00
worth of fat hogs this year and has over a
\$100.00 worth of fat hogs to kill. He claims not to have
bought a dollars worth of feed says they were
grown + fattened on corn + alfalfa. Made 300 blls
or 500 bu. of corn last year. Fed about same of
last years crop to this years hogs. Says this
years hogs have eaten about 200 blls or 1000 bu
of corn + ran on 10 acres of alfalfa, from which
he cut 30 tons of hay.

I am quite sure he did not feed more than
reported because he wintered 8 head of horses cattle
& sheep besides two families had bread also big
flocks of poultry.

SHEEP AND GOATS.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

Sheep

DEMONSTRATION.

SPECIFY IF SHEEP OR GOATS - SEPARATE SHEET FOR EACH.

- How many head of pure bred rams have been brought into the county through your influence? *I do not know but have done some work in this line.*
- How many grade ewes have been brought into the county for breeding purposes due to your work? *I have selected some 187 ewes for breeders which does not start the work.*
- How many flocks have been started? *7*
- How many sheep feeding demonstrations did you supervise? *I started out ration for 15 flocks.*
- How many sheep in these demonstrations? *600 (Estimation)*
- On how many of these demonstrations were records kept? *A few kept record but I have not been able to get them.*
(Give results and statement of production in dollars, rate, amount and cost of gain, profit, etc., and attach hereto.)
- Give results of grazing of crops in same manner as above.
- Give number of farmers induced to grow grazing crops for sheep *67.*
- Estimate number of sheep fed or bared for according to methods which you *I can not say the best sheep to send our farmers that are raised in fields & crops & green winter grazing during winter, as we buy & sell.*
- Give number of pure blood rams when demonstration started _____ Now _____
- Give number of pure blood ewes when demonstration started _____ Now _____
I can't answer
- Give results of campaign for more sheep, eradication of dogs, etc., under "Remarks".
Almost every sheep in county has a pure bred ram.
- Give increase in shipment of sheep from county by years since work started

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

POULTRY.

1. How many poultry demonstrations? *I have assisted 26 chickens
& 11 turkeys*
2. Number of each kind of poultry grown and cared for according to methods which you advocate.

Chickens	<u>26</u>	Turkeys	<u>11</u>
Ducks	<u>0</u>	Geese	<u>0</u>
Guineas	<u>0</u>		

3. On how many farms has poultry management been improved as a result of your work? 60 Number of birds on these farms 6000 to 12000
4. Do you give advice on poultry diseases? _____ (Give results under "Remarks.")
5. How many farmers have you induced to produce non fertile eggs? 8 farmers boys or girls who are raising poultry
6. Give number of eggs produced _____ Average price (per) _____ + _____
7. How many communities are raising same kind of poultry? We have a goodly number in every community raising the same kind of poultry
8. Are poultry products collected on cream routes? Some are & some by poultry wagons, & some are delivered.

We have two produce companies in our town and they are warm competitors therefore we get top prices for our eggs chickens & turkeys.

FOR REMARKS, COMMENTS, SPECIAL REPORTS, ETC., USE OTHER SIDE, AND ADDITIONAL SHEETS IF NECESSARY.

I have made a rule to encourage boys, girls,
+ delicate men and women who live in the coun-
try + have spare time to engage in the poultry
business. I have drawn plans for 11 poultry houses
have gotten about 15 men women + girls to keep
an account of every thing and while I have
not been able to get a single individual to
submit a written report. Four have said to me
they cleared from \$1.20 up to \$1.07 profit from each hen
Of course there was no special bad luck with
these flocks.

We have 9 large poultry raisers who
specialize + 6 out of the 9 grow white leg horn, in
addition to these almost every farmer keeps from
75 to 300 hens at least 50% of our farmers raised
Turkeys this year - flocks ranging from 20 to
175 in number + sold for Thanksgiving market
for 23¢ per lb.

It is wonderful at the stride negroes are
making in the poultry business one of our
largest poultry growers is a negro

I have made two special poultry cam-
paigns during this year besides the regu-
lar poultry work.

**LIVE STOCK
DISEASES AND PESTS.**

SPACE FOR AGENT'S SIGNATURE.
J. G. BRUCE,
 County Agent,
 CULPEPER, VIRGINIA.

1. How many head of stock have you or other extension workers induced farmers to have treated for diseases or pests?

Cattle treated for blackleg 700, anthrax or charbon 425
There are over 1000 head of cattle in this Co.
 Tuberculosis _____, ticks _____, lice 200
 " digestive and other troubles _____
 (Give results under "Remarks".)

Hogs treated for cholera (single treatment) About 100
 " " " (simultaneous treatment) _____
 " " " worms 1000 lice 500, mange _____
 " " " digestive and other troubles _____
 (Give results under "Remarks".)

Sheep treated for stomach worms _____, grubs _____, scab 200
 " " " ticks 300, Digestive and other _____
 (Give results under "Remarks".) troubles 50

Horses treated for spinal meningitis None, distemper 50
 " " " digestive ailments 3, accidents 6
 " " " anthrax or charbon _____, other _____
 (Give results under "Remarks".) troubles _____

2. How many of the above did you actually treat or test?

Cattle: Blackleg _____, Anthrax or Charbon None done by me
 Tuberculosis I assisted
 Hogs: Hog cholera had it done in giving treatment 100
 Horses: Anthrax or Charbon had it done head

3. Have you instruments for such treatments? No

4. Give results of campaigns for eradication or control of diseases or pests.

They were good

5. Have you assisted in any way in the control of foot-and-mouth disease? No

if so, how?

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

FERTILIZER.

1. How many farmers have you advised regarding proper use of fertilizers? 213
2. How many fertilizer demonstrations are the farmers conducting with you? 50
3. How much fertilizer used on such demonstrations? 150 (tons)
4. How many communities have you influenced to buy fertilizers cooperatively? 3

Quantity bought cooperatively - - 500 (tons)
 Value of fertilizer bought cooperatively - \$14.65 for 16%
 Amount saved 85% per ton - - - \$15.50 saving 85%

5. Number of farmers home-mixing fertilizer on your advice 50
6. Estimated saving per ton to farmers \$2.00 4.00 per ton
7. Number of farmers who top-dressed crops with fertilizer at your

suggestion 8

The local dealers thought our club would not get together and they started 16% at \$17.60 cash. We got busy in our clubs and bought about 200 tons for \$14.65 + another deal of about 200 at about \$16.00 + later dealers sold it to any farmers cash Dec 1st - for \$15.50

Had there been no farmers club or organization of the farmers they would have paid \$17.60 for all 16% acid phos. but as it finally came around, it brought the price down to all farmers - \$16.00 + finally \$15.00 - saving should be credited to organ. \$16.00

MANURE.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

1. How many farmers have you induced to take better care of farm manure? 325
2. How many have provided manure sheds at your suggestion? In our plans we have arranged 25 sheds.
3. How many are composting farm manure and waste products? From 30 to 60
4. How many manure spreaders are in the county? 240 (Estimative)
5. How many have you helped to place? About 15 this year
6. How many farmers are using phosphate or other materials for reinforcing farm manure? From 25 to 50
7. Estimated quantity of farm manure now being saved in your territory — (tons). 100 000

Saving manure is my job tho' I don't succeed in getting all our farmers to save it as they should. We try not to let manure waste if possible. I estimate we save enough hen manure to pay half the feed bill on hens. Most of my demonstrators realize the value of hen manure & care for it nicely. The largest poultry raiser we have estimates that he makes 100 tons annually. The largest dairy man estimates that he makes 700 tons annually. The largest beef cattle feeder estimates that he makes 300 tons annually.

It is hard to get at hog manure tho' I watch it closely & it is good but does not count up according to feed consumed. I have urged farmers for the last 5 years not to throw horse manure out of stable until thrown into wagon or spreader and carried to the field, this is becoming the common practice now but of course there are some who hold to the old practice of throwing it behind the horses and allowing it to lie there until it is practically no good but this is found only with the worthless class. When it can not be carried directly to the field, it is generally put under sheds and kept moist & well packed down or made wet frequently.

Our dairy men put it in manure pits or large manure piles daily but they use straw to absorb the urine & it does not seem to loose so much in a few weeks tho' it is hauled often.

I try to use all fence & branch cleanings used for barn yard bedding, filling washes or covering thin places. Get as many leaves hauled as possible & use all the straw & stalks available for bedding.

We apply much of our manure to young grass or wheat & young grass at the same time some to sod fields.

SILOS.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

1. How many silos built in county this year? 18
2. How many silos built as a result of your advice? 9 *Not many of them because was working at the other side of county*
3. How many silos were in county when county agent's work was started? 122 *18*

How many in county now? about 246

Tile 18 Cement 15 Stone none Other 212

4. Give growth in number of silos by years:

First year 18
 Second " 35
 Third " 46
 Fourth " 66

Fifth 9 by my direction

Three more others built for which the agent could not claim the credit

J. G. BRUCE
County Agent,
CULPEPER, VIRGINIA.

L I M E .

1. Number of farmers using lime due to your influence 400
2. Quantity used due to your influence 8000 (tons)
Burned lime 13 (tons), Limestone or its equivalent 4/5 (tons)
3. Number of acres treated first year of demonstration work ~~750~~ (1911.)
4. " " " " second " " " " 150 (1912.)
5. " " " " third " " " " 800 (1913.)
6. " " " " fourth " " " " 1600 (1913)
7. " " " " fifth " " " " 2500 (1914.)
such ~~more~~ 6000 1915 -
8000 1916
8. Number of local sources of lime developed none
9. Number of lime crushers installed as a result of your work none
10. Number of lime kilns built as a result of your work none

This lime has been used in Culpeper and adjoining counties.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

ORGANIZATION.

- How many farmers' clubs have you assisted in organizing? 5-11
- Give total membership of these clubs 300 have been members at same time during their life
- Give the name and address of each club and state briefly the object of each.
(Use other side if additional space is necessary.)
Culpeper Farmers Union Culpeper Va Stevensburg F.W. Mitchell's Farmers Union Mitchell's Va Mitchell's Farmers Club Mitchell's Va Piedmont Dairy Association Culpeper + Orange Culpeper + Orange Association Culpeper Va
- Are there a central county organization composed of delegates from the local clubs? no
- Is there any central county organization supporting your work? no
If so, what is it called? _____
Who may be members of the central organization? _____
- What other organizations of farmers or business men cooperate with or support your work? All cooperate but none put money in my work
- State the quantity of each farm product bought or sold by these organizations and the approximate saving to the farmer. Estimated about 2000 loads of grass seed + 600 tons of fertilizer
- Have you attempted to keep a bulletin board in your office, listing things for sale and things wanted? no but I keep a note book with these wants etc.

blow together from an educational, social,
& financial stand point.

To enable them to buy and sell collectively
and save a portion of the middle man's
profit. Further to get them together in order
to teach them in a body for the betterment
of agricultural conditions etc.

Cullpeper Aberdeen Angus Association
which now has a membership of 24.

No one is eligible to this organization un-
less he owns a pure bred Angus bull.

Piedmont Dairy Association a mem-
bership of - is largely from Cullpeper and
Orange. The purpose of the Ass'n is to foster
the dairy business in the entire Piedmont
& northern section of Va. better dairy cows, barns
& equipments, and better prices of milk.

Working for an annual sales day

Cullpeper Co. Cow Testing Ass'n - testing each
cow in herd for quantity of milk given
percent of butter fat, and food consumed net
profit or loss from each animal

**FARM AND FARMSTEAD
IMPROVEMENTS.**

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

THINGS DONE WITH AGENT'S ASSISTANCE AND ADVICE.

1. Number of buildings erected *I have gotten plans for 4 houses
2 dwellings*
2. Number of farm buildings improved *8*
3. Number of new building plans furnished *4 which have been used
and 4 more to be built soon*
4. Number of farm buildings painted or whitewashed *I can not say we painted
or white washed most all
of our buildings*
5. Number of home water systems installed or improved _____
6. Number of home water systems in county before demonstration work started
Number now _____
7. Number of home lighting systems installed *I can not answer
these questions we talk all the work and
hygiene as most domestic and we are in
this year*
8. Number of home lighting systems in county before demonstration work started
Number now _____
9. Number of home grounds improved *11*
10. Number of farms and home sanitary conditions improved _____
11. Number of homes screened against flies and mosquitoes _____
Number of fly traps installed _____
12. Number of sanitary privies erected _____
13. Number of telephone systems installed _____
14. Number of farmers furnished plans and induced to adopt a systematic rotation *15
or more*
15. Total acreage of such rotations *15,000 or more*
16. Crops commonly used in these rotations:

*corn, wheat, grass for hay one year & 2 years pasture
beans, peas, clover, alfalfa, timothy, sorghum, millet, wheat, rye, oats
on first stubble on year, about on first stubble, but
hay and pasture, also on timothy, rye, and
corn, by grazing, plow, and harrow, to feed, plow, plow
in season to stack, allowed to remain as long as*

For sandy river land for pasture, Ryegrass
Clover followed by eye for pasture, Ryegrass
plowed in and cow peas or soja bean
sown which are cut for hay, the stubble
again sown to eye for pasture which is
again plowed for corn. As soon as conditions
are favorable to get a catch of grass this is
cut for hay one or two years and then put
back to same rotation. By this method
some most wonderful results have been
accomplished from sandy river lands.
A rotation for my poor land
Plow up in July timber in all the green
matter available plowing deep and edge
the furrows. Make good seed bed and
sow to eye in later part of Sept. fertilizing
lightly. graze the eye until spring and
plow it under when from 6 to 8 ins high.
Fertilize and fertilize lightly when your seed
to cow peas. Cut the cow peas and
seed the stubble to a grass mixture
of timothy, all three of the clovers and
a little red top, this should be liberally
fertilized and limed if necessary.
After mowing a crop of hay and grazing
for two or more years this land can
be put into regular rotation and will
continue to improve.

17. Number of new pastures established 15
18. Number of old pastures renovated 31 Acreage 1200
19. Number of drainage systems established in county 6
20. Number of farmers induced to drain all or part of their farms 50
21. Number of such acres drained - by tile 300 - by ditch 300 with fallen
stumps on place
22. Number of farmers induced to remove stumps 40 Acreage 200
23. Number of farmers induced to terrace their sloping lands none acreage _____
24. Number of home gardens planted or improved 23 I tried to improve
25. Number of farmers induced to save surplus farm products for winter use all
I could get to do so
26. Number of road improving demonstrations assisted in none I got in
trouble last year by taking interest in roads
27. Number of miles of improved roads resulting therefrom none
28. Number of farmers who planted cover crops to be turned under 40 to 60
planted crop for plowing under. We saved winter
29. Number of acres in each kind of cover crop:

Crop _____ Acreage _____

Crop _____ Acreage _____

Crop _____ Acreage _____

Crop _____ Acreage _____

30. Number of new implements and tools bought:

Binders _____ Mowers _____ Hay rakes _____

Hay presses _____ Grain drills _____ Ensilage cutters _____

Gas engines _____ Disk harrows _____ Cream separators _____

Cultivators: two horse _____ one horse _____ Small tools _____

Spraying machines _____ Etc _____

**MISCELLANEOUS
DEMONSTRATION WORK.**

SPACE FOR AGENT'S SIGNATURE
J. G. BRUCE,
 County Agent,
 CULPEPER, VIRGINIA.

- | | | | |
|--|-----------------------------|------|------|
| | DEMONSTRATORS | 704 | 1001 |
| | COOPERATORS | 1387 | |
| | OTHER FARMERS | | |
| | BUSINESS MEN | 464 | |
| | BOYS' & GIRLS' CLUB MEMBERS | 147 | |
- Number of visits by agent to
 - Number of miles traveled

(Railroad)	1666	
(Team)	3910	
(Otherwise)	639	Total 6215-
 - Calls on agent relative to work at office or home

(Personal)	488
(Telephone)	323
 - Number of farmers' meetings held under auspices of agent or Extension Division
 - How many meetings of all kinds did you address? 11
 - Total attendance at such meetings (approximate) 2284
 - How many field meetings held by you? 67
 - Total attendance at these meetings 1642
 - What per cent of time spent at office work? 30%

HOW	DIVIDED	(CORRESPONDENCE)	43-
		(CONFERENCE)	25-
		(MISCELLANEOUS)	30
 - What per cent of time spent in field work? 70%

HOW	DIVIDED	(SUPERVISING REG. DEM.)	50%
		(OTHER FARM VISITS)	30%
		(AT MEETINGS)	10%
		(ASSISTED IN SHORT COURSE WORK)	1%
		(ORGANIZATION)	4%
 - Number of official letters written 621
 - Number of articles relating to your work prepared for publication 29
 - Number of circular letters prepared by you and sent out

(Give list and copy of each if possible)

I can not give as I did not keep

6 letters sending about 100 copies of each
 - Number of bulletins or circulars of U. S. Department of Agriculture distributed 426
 - Number of bulletins or circulars from State College or State Department of Agriculture distributed 127
 - Number of visits to schools relating to work 26

17. In how many schools did you assist in outlining an agricultural course? two
18. How many Extension schools or short courses did you assist in? We worked on this same but didn't get it through.
19. Total attendance at these schools: _____
20. Total number of days you were engaged in these schools: I can say
21. Number of farmers who attended short courses at college as a result of your effort: none
22. Number of boys attending Agricultural or other schools or colleges as result of club work: 11
23. How many girls attended industrial or other schools as result of girls' club work? I don't know
24. How many times have you been visited by specialists from college or the Department? _____
25. Was there a county fair held in your county? no but visited a Coon exhibit 4 times most counties Dis Agent.
26. How many demonstrators, cooperators and club members had exhibits? 29
27. How many prizes won? 24
28. How many demonstrations have you in truck or small fruit? _____
29. Were they successful from a financial standpoint? _____
30. How many farmers in your county are keeping cost records at your instance? Complete none Partial 76
31. How many farmers in your county are practicing fall plowing as result of county agent's work? about 150 are plowing during fall.
32. How many farmers are sowing seed? do not know but they are trying to keep for last 6 years 760 in part
33. How many farmers are growing any kind of improved seed for sale? 56
34. How many wood lots have been improved at your suggestion? 12
35. How many farmers in your county have been influenced to grow sugar cane or sorghum for syrup? This is grown by those who can handle it and make into sorghum for the table not near so much grown as formerly on account of labor.

**EFFECT OF DEMONSTRATION
WORK ON THE COMMUNITY AND
HUMAN INTEREST FEATURES.**

J. G. BRUCE,

County Agent,
CULPEPER, VIRGINIA.

(The data called for on the other sheets are mostly statistics. The replies to the following questions are intended to furnish a basis from which to make an estimate of the general effect of the demonstration work on the individual and the community. The agent should not restrict his general information to the questions asked, but should give any additional facts that will bring out prominently the good effects of the influence the agent's work has exerted over any individual or over the county in general. Each agent should give at least one human interest story. It would be much better if such stories could take up the work with the individual and follow it through for several years.)

HOW MANY OF YOUR DEMONSTRATORS AND COOPERATORS ARE:

1. Raising practically all their home supplies? *80%*
2. Have opened new bank accounts since beginning demonstration work? *10%*
3. Have increased their bank deposits since beginning demonstration work? _____
4. Own their farms? *99%*
5. Have mortgages on their farms? *20% finally*
6. Have paid off their mortgages since beginning demonstration work? _____
7. Trading on a cash basis since beginning demonstration work? *21% more than was trading on a cash basis*
8. Do the bankers and merchants favor demonstration farmers in placing business, such as in the loaning of money and extension of credit? _____

If so, give examples.

yes. The bankers or merchants all are anxious to do business with up to date farmers and have never known of a banker turning down a progressive farmer

WHAT PER CENT OF YOUR DEMONSTRATORS AND FARMERS ARE:

9. Decreasing their indebtedness along various lines? _____
10. Showing increased interest in agricultural meetings? *50%*

11. Showing a desire to study their farm business and progress: *90%*
12. What additional industries have been established in your territory

since demonstration work was begun: *Silk factory, Paints factory
Shut factory - Products Co. and more merchant mill*

13. What other signs of progress are apparent as a direct, or indirect,

result of demonstration and extension work: *Better cattle, sheep
hog, poultry, Corn, Hay, wheat, etc. farming by more
of our lands in, give better farming, etc. machinery, etc.*

14. In how many instances among your demonstrators has ~~labor saving~~ *labor saving* devices for the home been installed: *I can not give
the number*

15. Name some of the more noticeable effects on the farmer's home and family, of his greater earning power due to better methods; such as increased opportunities for social intercourse, amusements, entertainments, greater contentment with farm life, increased interest in church work, etc. Give instances:

*1st. Better roads, better traveling facilities
better schools and longer terms, more people
reading and studying a quantity, a larger
telephone connection, better mail service
more visiting and amusements etc*

*Just what part of this is due to
our work God only knows, I know I
do not know what part of it should
be credited to our work but I do think
we have done all we could to bring
about these and many other changes.*

BOYS' AND GIRLS' CLUBS.

J. G. BRUCE,
County Agent,
CULPEPER, VIRGINIA.

How long has the Club Work been in your county: 2 years

List the various kinds of clubs organized, and state the enrollment in each, number reporting, average yield, number and value of prizes.

KIND OF CLUB	ENROLLMENT	NO. REPORTING	AVERAGE YIELD	NO. OF PRIZES	VALUE OF PRIZES
Boy Scout Club	35	22	63 1/2 lbs	22	72
Alfalfa Club	4	partially	4 trees	00	00
Girls Canning Club	I can not give info.				
Poultry Club	of either of these clubs				
	but - they have done some good work				
	I have been a big help in the County				