

T H E S I S

on

Vocational Guidance of Farm Boys
in the Willamette Valley, Oregon

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Russel Monroe Adams

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APPROVED:

Redacted for Privacy

Professor of Vocational Education

In Charge of Major

Redacted for Privacy

Head of Department of Vocational Education

Redacted for Privacy

Chairman of Committee on Graduate Study

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In our observations of those around us who are unsuccessful in life, we often hear the expressions, "He is a misfit" or "He is a square peg in a round hole". Youth has seen this situation and has desired to avoid it. Maturity has desired to lead youth away from the paths of unhappiness since time immemorial. Psychologists and others have been devoting their efforts towards finding the abilities of individuals which would fit specific occupational requirements. Thus the effort to guide youth into fitting vocational choices has gradually evolved until today it is known as the vocational guidance movement.

On account of the better facilities and larger number of children available for experiment and counseling, the effort, to date, has been almost entirely confined to the urban districts, especially the large cities. Through force of these circumstances our country boys and girls have been neglected, although as Myers¹ points out there were nine million children from farm homes enrolled in rural schools in 1924. The importance of the problem presented in this paper is obvious.

"The ultimate goal is guidance for life as a normal, full functioning individual", says Edith K. Bryant². She continues

¹ Figures refer to bibliography.

"Two things must be achieved before this goal can be reached-- health, and a well rounded, poised, fully developed personality". This is not achieved when our boy's make mistakes in life choices.

Viewed from the standpoint of the high school farm boy and the teacher's problem, the following quotations are significant.

3" It is apparent that a number of the boys enrolling in departments of vocational education are interested in occupations other than agriculture and should receive such instruction and information as they will need to choose wisely their occupation. The agricultural instructor, because of his close contacts with the boys in his departments and with their parents as well, is in a particularly strategic position to assist boys in the study of occupations. The boys come in daily contact with farming and are fully aware of the disadvantages of that occupation, while the disagreeable aspects of more distant occupations are not apparent. Of course, not all farm boys should be urged to choose farming for a vocation, but in so far as possible, boys should become familiar with the advantages and disadvantages of any occupation in which they are especially interested."

William S. Taylor⁴ has said, "It seems to be admitted, though little is done about it, that boys should not be

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prepared for farming occupations until they have had an opportunity to acquire the basis for intelligent choice as to the type in which their opportunity may lie. The agricultural teachers will come to be the most effective agents in guiding farm boys either into or out of profitable farming occupations."

E. V. Bearer⁵ writes, "A record of the high school agricultural pupils who graduated this past year shows that sixty eight per cent of them are now engaged in some kind of an agricultural occupation. For the previous five year period the record is seventy four per cent entering agricultural pursuits. The higher per cent for the five year period is due to the fact that many boys enter some work other than agriculture the first year or two after graduation but later many of them turn to agriculture for their life work." If this is true many farm boys are wasting time and effort in unwisely chosen occupations.

The problem that is presenting itself is, should the individual farm boy, whose case is being considered, farm or not? If he does not farm what can he best do?

As an approach to the solution of this problem for farm boys in the Willamette Valley, Oregon, thirty five case studies have been made, as included here. They consist of farm

boys who were in attendance at the high school in Forest Grove, Oregon, during the year 1928-29.

By means of correspondence and individual interview of Smith-Hughes agricultural teachers an effort was made to collect information on what was being done along this line in other high school agricultural departments in the valley. Very little of value could be obtained. This has largely narrowed the study to a single locality; namely, Forest Grove, Oregon, and vicinity. This inability to obtain information also shows the serious lack of attention which the rural vocational guidance problem is receiving from those who should be most interested.

Observation and experience teach us that farm boys have many problems in common, regardless of locality. Sociologists have treated of the rural problem as such. These reasons, combined with the fact that the Forest Grove community is thought to be typical of much of the Willamette Valley, lead us to believe that this study will not be without value in spite of its limitations.

The need of our Willamette Valley farm boys for information in making vocational choices is revealed in part by a study of Tables IV, V and VI, herewith submitted. In the preparation of these tables questionnaires, also included herewith, dealing

with occupational information and the boys' attitudes and desires, were filled out by each boy. Each questionnaire contained fifteen questions to test the boy's information on the occupation of his choice. A summary of the answers shows that the boys were able to answer only forty seven per cent, less than half, of the questions correctly. Thirty per cent of them were answered incorrectly or uncertainly and on nineteen per cent there was no answer made at all. On four per cent the answer "Don't know" showed that knowledge was entirely lacking. It may be of interest to note that the upper and lower classmen ran about equal in these points.

Among other things, a summary of Table V shows that twenty eight of the other forty questions^{*} having to do with the boy's decision for or against farming as a life work, were answered uncertainly and four per cent not at all. Yet we know that farming is the occupation in which these boys were reared and about which they should know the most. It also indicates

*Sixty five questions were used but approximately forty only had vocational significance with regard to farming.

that many of these boys have not thought seriously of their life's choice of an occupation as yet. They have not analyzed themselves or the employment requirements. An interest in life's outlook needs to be engendered.

Table VI summarizes the boy's knowledge of occupational requirements in choices other than farming. Thirty five per cent are revealed here as uncertain.

The great diversity in occupations in which these boys became interested and which they have chosen for a life work also complicates this problem. By referring to Table VII it will be seen that the country over a considerable percentage of farm boys, even when reared on a farm and trained in a high school agricultural course, enter non-agricultural occupations. A study by Hans Schmidt⁶ shows that although farm boys and girls comprise twenty six and three tenths per cent of the population in Wisconsin the occupational choice of only fifteen and two tenths per cent was for agriculture. F. C. Wooten⁷ investigated the vocational choices of the ninth grade boys in the high school at Eugene, Oregon, and found that of the fifty seven boys whose fathers were farmers only thirteen desired to become farmers. W. C. Higgins, Smith-Hughes Agricultural instructor at Ontario, Oregon, reports sixty per cent of the one hundred one graduate students sur-

veyed as being now in non-agricultural pursuits. An investigation made by an Oregon Smith-Hughes Agricultural instructor at Lebanon, Oregon, revealed that of the one hundred ninety seven boys who had been in his department the minority desired to be farmers. Among the one hundred ninety seven boys sixty three different vocational choices were represented. Leslie C. Whitaker³ in "a study of vocational choice of Benton County, Oregon, high school students" found that only twenty three per cent of the children whose fathers were farmers expected to become farmers. He lists twenty five different occupational choices of farmers' sons. He further points out that thirty seven per cent of the population of Benton County is agricultural while only enough farmers' children attending high school intend to farm to replace seven per cent of the population. The Forest Grove boys gave thirty different occupations of relatives as interesting them. Their actual occupational choices covered sixteen fields of work and may be found by referring to Table III.

In connection with these occupational choices and as a part of each case study careful consideration was given to what the boy had to offer and what his chosen work would

require of him, and a decision rendered as to the wisdom of each choice. It is shown that fifty per cent of the boys' choices offer reasonable chances for success; thirty per cent are definitely unwise and in twenty per cent of the cases no occupational choice was made.

Up to the present point in this paper we have been concerned with establishing the fact that our farm boys are badly in need of guidance in occupational choice and that very little is being done along this line. The situation is only partly before us, however. There are other phases of the problem having to do with the general background of our farm boy, which needs some explanation before an adequate understanding can be had. These have to do with hereditary and environmental influences. Heredity furnishes the physical and mental potentialities of the individuals in the rural group. Environment furnishes them with attitudes, desires and ideals which must be taken into consideration in their occupational choices. It is frequently pointed out that in the beginning of our nation ninety per cent of the population were farmers while now only about thirty per cent are such. We find in one typical county in the Willamette Valley; namely, Benton, only thirty seven per cent of the population farmers. Other occupations have absorbed at least sixty per cent of our rural

group. What has been left in the country?

Wgt⁹ summarizes the evidence to show that physically our farm boys generally represent the best in the nation. Only twelve per cent of the Forest Grove boys reported physical difficulties.

Mentally we have a different problem. Wgt⁹ points out that the problem of feeble-mindedness is largely a rural one. Payne¹⁰ gives the occupational intelligence levels resulting from the army psychological tests and ranks farm workers fourth from the bottom of the list of forty three occupations. This places them in the semi-skilled laboring group. Haggerty¹¹, professor of psychology at the University of Minnesota, says, "Pupils attending smaller schools seem to be less intelligent than those in the larger schools". From these authorities we are forced to conclude that generally speaking our rural population has decreased mentally to the point where many are of the semi-skilled labor type. While there are exceptions to this conclusion, the Forest Grove study shows but few of them.

By referring to Table II we find the average intelligence quotient of this Forest Grove high school agricultural group to be ninety seven. This places them on the average in the low normal group, according to Terman¹², but they are not on a par with other high school students who probably average, accord-

ing to this authority, one hundred ten Intelligence Quotient. The average Intelligence Quotient in the Forest Grove high school was one hundred eight during the period of this study. In accordance with Payne's¹⁰ findings these boys are on the average in the semi-skilled occupational group. Four of the boys have Intelligence Quotients between eighty and ninety making them, according to Termen¹², dull normals of the unskilled labor class. The average school grade of the Forest Grove boys was 78. No student averaged 90 or above. The boys' grades and intelligence quotients generally correlated very closely. In both respects they were distinctly inferior to the urban group in the high school.

This mental status automatically limits the vocational outlook of many of the individuals in this group.

Sociologists tell us that environment has contributed much in the way of attitudes to the farmer. Lack of companionship, conveniences, educational advantages and recreation have contributed towards making the farmer individualistic. Although increase in our transportation facilities is rapidly overcoming the conditions due to isolation yet it is important for us to note that the average farm boy will yet offer to any occupation such factors as self reliance, willingness to work, conservatism and hand work ability.

The ideals and ambitions handed on from parent to child have a great deal to do with a boy's occupational choice. The desires of the farmer to have his child in a better social and financial position than he is contributes to this. As a result of statistical studies of 1,126 high school students' ambitions and their fathers' occupation Proctor¹³ reports that the tendency is for boys and girls in the country to have ambitions which rank higher than the rank of the occupations of their fathers. An effort was made to rate this intangible factor, parental ambition, in the Forest Grove study, but no apparent relationship existed between the degree of parental ambition as estimated and each boy's occupational choice. The degrees of ambition were probably not accurately checked.

Financial success of the parent in farming is also a contributory factor in the rural boy's vocational choice. Of the group in Forest Grove, eleven boys chose farming as an occupation. Of these, eight come from homes rated excellent to good in financial success; two from fair and one from poor. The last named is a case where the father left the farm, and, having been unsuccessful as a day laborer, is trying to get back into farming.

Other results of this study which bear more or less on the problem, depending on the individual case, will be briefly stated. In Table I we find that eighty six per cent of the boys' fathers own and fourteen per cent of them rent their farms. The farms average eighty two acres. They are in general diversified, the main enterprises being as follows:-

Cows - 21 farms
 Field crops - 8 farms
 Tree fruits - 7 farms
 Small fruits - 5 farms
 Poultry - 5 farms
 Truck - 4 farms
 Uncleared timber - 3 farms
 Sheep - 1 farm

An average of two and three tenths^{boys} and one and four tenths sisters is found per family or a total of three and seven tenths children, which is a little below the census average for farm families. The number of brothers and sister that plan to stay on the farm may be summarized as follows:

Nine answers said 'None'
 Eight answers were uncertain
 Seven gave no answer

Six definite answers showed an average of one and sixty six hundredths persons other than the boy planning to stay on the farm.

The occupational decisions of the boys themselves may be summarized as follows:

Eleven, or 35 per cent plan to stay on the farm

Thirteen, or 42 per cent say they will not stay on the farm

Three, or 10 per cent are uncertain

Three, or 10 per cent gave no answer

The country or city preference of the boys may be summarized as follows:

Twenty three, or 74 per cent preferred the country

Five, or 16 per cent, the city

Two, or 7 per cent gave no answer.

The boys who preferred the city gave as their reasons that they were raised in the city and preferred city work. Those who preferred the country gave the following reasons:-

Because I have always lived there - 6

Prefer outdoors - 4

Health - 3

Freedom - 2

Don't like to lie around - 2

More money in it - 1
Easier to make a living - 1
Don't like monotony - 1
Better place to live - 1
Best hand training - 1
Can go to the city when wishes - 1
Likes to see things grow - 1

Table II shows us the amount of education these boys expect to get. Ten of them expect to complete high school; one, normal school; two, business college; fifteen, college; and six gave no answer. The average grade made by a pupil in high school English, according to Supt. J. P. McGlasson of the Forest Grove schools, is supposed to be most indicative of probable success in college. Of the fifteen who indicated a college education as desired one had a grade of 90 in English, six of 80 to 89 and eight of 70 to 79, indicating that at least fifty per cent had unfavorable prognosis of college success. This is a further indication of the need of guidance. A check was also made of the consistency of the boy's educational choice and his occupational choice. In twenty two cases the boy's educational ambition was high enough for his vocational ambition and in three cases it was not. However, after considering the boy's finances

and his educational and general outlook it was considered improbable that fifty five per cent of these educational ideals would be realized. Financial assistance toward the further education is one inhibiting factor which is tabulated with the findings that two boys gave no answer, two said they could get no assistance, twenty eight were uncertain and only one said that he could get all he needed. If such assistance were furnished at least fifty per cent of it would come from the parents. Twenty five out of thirty two boys stated that if they received a higher education or established themselves in independent business they would expect to work their way into it entirely, while two indicated that they would work their way partially.

Some record of the occupational ancestry of the group may be obtained from Table III. It shows that 76 per cent of the grandparents were farmers, 14 per cent tradesmen, four per cent lumbermen and four per cent merchants. (Twenty three cases.) The parents divided themselves into sixty four per cent farmers, eight per cent tradesmen, eight per cent lumbermen and two and one half per cent each of laborer and farmer, merchant, teacher and farmer, road supervisor, laborer, milk route driver and farmer, carpenter and farmer, salesman and farmer.

Twelve per cent more of the grandparents were farmers than of the parents.

Table V shows us some of the further relationships which appear to exist. The answers favoring farming were compared with those against it plus those uncertain and not answered to ascertain whether the majority of each boy's answers favored farming for him or not. From this study, the next few summaries were made. Of twenty three cases having an English grade below 80,

70 per cent, or 16 boys favored farming in their answers,

6 boys opposed farming,

1 boy was evenly divided.

Of those with an intelligence quotient below 100, in all fifteen cases, 93 per cent, or 14 boys favored farming,

1 boy opposed farming .

Of the twelve boys having and English grade of 80 or above,

66 per cent, or 8 boys favored farming,

1 boy opposed farming,

3 boys were evenly divided.

Of the 14 boys having an intelligence quotient of 100 or over

50 per cent, or 7 boys favored farming,

4 boys opposed farming,

3 boys were evenly divided.

It would appear from this that a larger proportion of boys having low I.Q.'s and English grades favored farming than those higher in

these respects. However, the proportion of answers diagnosed as favorable to, and the occupational choice of farming are sometimes not the same.

An average of fifty seven per cent of all answers of the group favored farming; eleven per cent were against it; twenty eight per cent were uncertain and four per cent were unanswered.

In Table VI is made a study of vocational choices other than farming and their advisability. In eleven out of sixteen cases the general grade average is too low for an optimistic outlook on occupational choice while the I.Q. is too low in nine cases out of sixteen.

If English is considered the high school subject most indicative of college success and mathematics of engineering success then we find nine out of sixteen too low in these respects.

A few important factors were not tabulated, but, because of their importance, have been included in the write-ups of the individual cases. Factors such as, industry, persistence and earnestness of purpose have and will lead to success in occupations for which an individual may have such a handicap as a below average intelligence quotient for the occupation. Individual interests and desires cannot be overlooked in guidance

especially if deep set.

For those boys desiring to, or who are best adapted to, pursue farming one more factor must not be overlooked; namely, the time and capital requirement to get started in the farming business. Many a boy cannot farm if he wishes to do so because of these limitations. John T. Wheeler¹⁴ calls attention to this problem very effectively when he writes, "The trained boy should be able to enter upon the business of farming, not be a mere laborer. Purchasing takes too much capital for the beginner, from \$10,000 to \$50,000." It is noted that the state of Kansas in their study of the occupational status of farm boys, who have had two or more units of vocational agriculture in Kansas high schools, report seventy per cent of those farming as now farming with their father. In a questionnaire investigation of fifty three farmers, recently completed by the writer, it was found that, according to their opinions, the modern farm boy has his best chance to get started in farming with his father in partnership. His next best chance is through inheritance and his third through the various arrangements for leasing and eventually buying. If, however, as Mr. Wheeler points out, only thirty five per cent of our farm boys can use methods one and two, it is evident that the remaining two thirds have before them a very

difficult situation with which to cope before they can become successfully established as farmers. Their best opportunity seems to be through following these steps.

1. The accumulation of \$2000 through working out.
2. Leasing with the use of the \$2000 to pay for necessary rent, machinery, livestock and running expenses.
3. Eventually buying.

Starting with only good health, determination and willingness to work and save it will probably take the average young fellow at least ten years to become safely established. It is evident that Smith-Hughes agriculture teachers should encourage parent and son partnership wherever possible and should sell to the farm type boy who has the possibility of inheriting the farm the farm idea and its opportunities. Few of us have realized the importance of this.

CONCLUSIONS

Willamette Valley, Oregon, farm boys are very similar to farm boys in general in most respects. They are badly in need of vocational guidance which they are not getting. They generally lack information as to both occupational requirements and their own abilities. Their occupational choices are many and often times unwise. They usually have a background, inherited and environmental, which fits them for work in the semi-skilled labor group of occupations. In this much of farming can be included.

Environmental situations; such as, parental ambition, financial success of the parent and capital available to start farming, complicate the situation.

In guiding a farm boy into a vocational choice it is important that he feels the need of making such a decision himself. In advising him as to his choice the writer has found the following factors useful:-

Intelligence Quotient

School grades

Special subject grades

Educational requirement of occupation and boy's possibility of achieving it.

Financial backing possible for education.

Health.

Industry, persistence, earnestness of purpose,
interests and desires.

Special abilities, in or out of school.

In the case of farming in particular, opportunity
for capital backing to establish boy in farming.

This is dependent upon father's financial stability,
size of the farm and the number of brothers
and sisters who will probably remain on it.

Work That Remains to be Done in This Field

1. A continuation of the work covering all the
Smith-Hughes departments in the Willamette Valley and leading
to greater accuracy in conclusions by reason of greater numbers
of cases.

2. The inclusion of case studies of farm boys who
are not in high school but who are just as vitally tied up in
this problem.

ANALYSIS OF THE QUESTIONNAIRE

As a means of ascertaining, in detail, each boy's actual situation, knowledge, and opinions, as they affected his vocational choice, the following questions were prepared. Some of them will be recognized as coming from the questionnaire formerly used by Dr. J. F. Bursch in vocational guidance of Oregon State College and other students. The others were added.¹⁵

Following the summarizing and tabulation of these questionnaires a critical analysis of each question was made, which should shed more light on the individual case studies. The questions used, with criticism and evaluation of each, follow:-

1. Does your father own or rent?

This is some indication of the permanency and success of the father, though not definite unless the amount owed is ascertained. A father's success is believed to determine very largely the boy's attitude towards farming as an occupation.

2. Size of farm Value

The same remarks apply to this question as to question one.

3. Number of brothers and sisters How many will stay on the farm? Will you stay on the home farm yourself?

The answer to this question indicates, to some extent, the capital with which the boy may expect to start farming if he desires. If he can establish himself on the home farm, he has the most practical and easiest method of entering the farming business.

4. Do you expect to leave the farm? If so, why?

This gives us an insight into the boy's occupational ambitions and his reasons for the same.

5. How much education do you expect to get?

We ascertain from this whether the occupational educational requirement and the boy's educational expectations are in keeping with each other. The great difficulty here is that so many boys desire much more education than they are able to get.

6. How much financial assistance can you get toward an education or towards getting started in business?

This again gives us an inkling of the boy's capital

backing. The chief weakness in this question is that the boys often do not know what the parents can, or will, do. If the boy indicates that some financial assistance may be afforded him, the source of this assistance is found by his answering whether it will be furnished by inheritance, parents, relatives, or borrowed otherwise. A vision of his determination and his realization of the task before him is furnished by his answer to the question, "Will you work your way through school or into the job you desire?"

7. Do you like the country or city best? Why?

This gives us the environmental preference of the boy, whether urban or rural, and his reasons therefor.

8. What do you expect to do for a life work? Why?

This gives us the boy's present attitude as to occupational choice. In an effort to locate further reasons for this choice than those given we include questions as to the occupations of parents and any other relatives. To find out how much the boy actually knows regarding his occupational choice, these questions are added: (a) What opportunity for advancement is there?

(b) What wages can I get to start and later?

(c) Will I like my employers?

This cannot be definitely answered unless connected with definite employment, but stimulates beneficial thinking.

(d) Will I like the work? Is it interesting?

(e) Am I physically and mentally capable of learning and doing the work?

Very few have a realization of, or else are not willing to admit their mental limitations.

(f) What education is required? Have I the necessary education?

(g) Am I willing to sacrifice to get the necessary education?

(h) Am I willing to put in the necessary time to work up?

(i) How will I secure the job to start with?

(j) How am I to know the union requirements, if any, and am I willing to abide by them?

This question is usually inapplicable, except for trade positions in large cities.

(k) Do the hours suit me?

(l) Is there any better work for me to take up?

(m) Will I like the other employees with whom I shall
be associated?

(n) Will I like the town, the people, schools and
churches where I shall have to live?

9. Can I work happily alone, or do I prefer company?

If the boy prefers company he would probably be
happier in city employment.

10. Can I be happy without as much city entertainment as town boys
and girls have?

This question is becoming decreasingly important as
our transportation facilities increase.

11. Can I be happy working hard and long?

^{answer}
A favorable is a good recommendation for any kind of
employment, most especially a farm.

12. Can I be happy in the social position of the farmer, as others
see it?

Few farm boys have experienced any feeling one way or
the other in this regard.

13. Is farming to me pure toil or achievement?

If the answer is achievement, it indicates that the boy will probably be happy on the farm; and if toil he had better seek some other occupation.

14. Can I do my best without active competition or must I have company to assert myself efficiently?

All farmers have to be able to work well alone a great deal of the time.

15. Will the farm life offer me a satisfactory environment for myself and eventually for my family?

This question possibly takes in too broad a scope to be practical in a high school questionnaire.

16. Can I stand monotony?

The word monotony is often too difficult for a high school boy to understand without explanation. The question is very pertinent, however, when applied to much of our ordinary farm work.

17. Am I afraid to leave the farm to tackle unknown environments and conditions?

This question is improperly stated from a psychological point of view as it always results in a negative answer. It was, therefore, not used in tabulation of results.

18. Does farm work, irritate, anger or worry me?

If the answer is affirmative, the boy probably does not belong on the farm, although the degree to which this is true must be considered.

19. Am I interested and broad minded enough to find and use new and progressive, practical methods on my own initiative?

The answer should be affirmative if it offers the boy promise of the greatest success on the farm.

20. Do I like to accomplish things from start to finish by myself?

An affirmative answer is favorable to most kinds of employment and indicative of the self managing ability of the boy.

21. Can I make the sacrifices necessary to eventually own my own farm, or will I be content to rent?

This question shows earnestness and sincerity of purpose.

22. Is there enough wholesome play in farm life to suit me?

23. Will I be satisfied with the income a farm offers?

The income a boy expects is generally what he has seen his father make. Boys sometimes change their answer to this question when shown what has been done by successful farmers.

24. Can I cooperate with my farmer neighbor in community business and social programs?

This question is vital at a time when cooperation is being stressed as the salvation of the farmer.

25. Are country religious and educational opportunities satisfactory for myself and family, or can I live close enough to town to use town schools and churches?

This question is of little value on account of the ease of transportation in most cases in the Willamette valley. It was, therefore, excluded from the tabulation.

26. Will we be satisfied with the conveniences a farm offers?

This question is pertinent but was unfortunately omitted from most of the questionnaires and, therefore, not tabulated.

27. What schooling have you had?

Schooling is not a particular test of farm adaptability, although the more intelligent an individual is the further he can probably progress in any field. Any definite application of the answer is uncertain.

28. Have you had any special industrial or commercial training?

If so, what?

Farm boys have had valuable training in the farming occupation, which they often discard thoughtlessly in making other occupational choices.

29. What studies interest you most?

Interest is often indicative of occupational adaptability.

30. What studies do you dislike most?

31. Are you studious by nature, or does studying come hard to you?

A studious or non-studious nature is chiefly of value in considering professional preparation and not a factor in farm adaptability, in most cases. It was, therefore, not considered in the tabulation as to the fitness of the boy for farming.

32. What claims most of your attention in school, your studies or outside activities?

Unless some activity is mentioned which is directly related to an occupation, there is no particular vocational significance except for professional, or other positions requiring leadership. This question was not used when considering the boy's fitness for farming.

33. What sort of books and magazines do you read?

Reading along any occupational line is taken as indicating an interest in that field.

34. How do you spend your spare time?

Unless the spare time is spent in some occupation or avocation this answer is not particularly significant.

35. Do you "get by" in school with little or no study, or do you have to "plug hard" in order to pass?

Ease in getting studies is no particular test of farm adaptability. This question was, therefore, eliminated from this tabulation. It is significant for professional occupations.

36. Do you like to invent things, or devise improvements on things around you?

An affirmative answer is favorable to farming or mechanical objectives.

37. Have you mechanical ability?

Mechanical ability is essential to the most efficient up-to-date machinery farming.

38. Do you like to draw, free-hand or mechanical?

Significant only for would-be draftsmen or artists. This was not considered in judging the boy's fitness for farming.

39. Do you like music? What instrument do you play, if any?

This is significant for musicians, not for farmers.

40. Do you express yourself well in writing? In speech?

This has no particular significance for a farmer as it would have for a secretary, although these abilities are an advantage to every one.

41. Are you timid, a "go-getter" or neither?

Boys cannot, or do not, judge themselves accurately in this. Timidity does not prohibit farm success and a "go-getter" has more chance in any field.

42. Have you a hobby that makes large demands on your spare time?

A hobby is not significant except in connection with the occupation of which it is a part.

43. To what organizations do you belong, if any?

Connections with any organization having to do with a particular occupation are apt to indicate vocational interest.

44. Do you take an active part in club meetings, or in similar occasions, or do you prefer to leave it to others?

Social activity is not particularly indicative of farm success. It is more important in city employment.

45. Are you a good mixer?

Same remarks apply as to question 44.

46. Have you any particular ambition or vision for the future?

This question should have added, 'if so, what?'

Unless this is added no particular vocational significance can be attached to the answer.

47. Are you naturally healthy?

48. Are you strong physically?

49. Name physical handicaps, if any.

Good health is an advantage in any occupation. Some physical difficulties are less of a handicap in one position than in another and are, therefore, vocationally significant.

50. Do you prefer to be the director of things, or are you willing to do your share while some one else directs and assumes responsibility?

A director has more chance in any individual field, but some followers in a group are aggressive when alone, as most farmers are; so it is difficult to evaluate this question.

51. Are you able to concentrate on the work you are doing, or does your mind wander off to other things?

Concentration is required on the part of those doing student work. Day dreaming is a common habit of farmers on monotonous jobs and concentration is not required for rural success.

52. Do you get along well with others and they with you?

While peaceful relations with other people are of value to any one, the farmer is not in as close association with others as the city man and is, therefore, less limited by this desirable quality.

53. Do you stick to an idea, or to a certain job until the end, or are you easily discouraged?

54. Which sort of work appeals to you most, methodical, repetition, or work of wide variety?

All three types are found in farming, depending upon the kind of farm and season of the year.

55. Do you prefer mental activity, physical activity, or work involving both?

Farming should involve both, but the emphasis usually is on the physical.

56. Can you work well under high pressure, or do you work better when you have time and leisure?

Except for short seasons the farmer can generally work under conditions which afford him such time as he wishes for completion of his work.

57. Have you a good imagination?

Imagination may aid in stimulating ambition in any field, but is not absolutely essential in farming.

58. Do you naturally pay attention to small details, or are you more interested in broad planning without giving much thought to methods of carrying out your plans?

This question is too long and complicated. Both kinds of planning are required on a farm. In a city position the answer might indicate executive ability, or lack of it.

59. Have you a good memory for names--for faces--for facts--for figures?

Memory is valuable anywhere, but possibly less so in farming than most city occupations.

60. Do you keep your desk or room always in order, or do you allow things to accumulate until you are forced to clean up?

Orderliness is an efficiency factor on any farm.

Without it we usually have an unsuccessful farmer.

61. Are you systematic in your work, or otherwise?

System is an essential of good farm management.

62. Are you self reliant?

Every successful farmer must be self reliant, in fact, probably more so than in most other positions.

63. Are you tactful or do you say what you think without consideration of effect?

While valuable anywhere tact is not as essential on a farm as it is in the city.

64. Are you careful and conservative in taking a step, or are you impulsive and careless of consequence?

The careful, conservative man is the type usually found on the farm.

65. Are you quick or slow in your movements? In your
mental processes?

Quick or slow physical and mental abilities, while
significant, do not guarantee or prohibit farming success.

The writer has attempted to point out, very briefly,
only the most important things in connection with the above
questions. It is realized that there are probably many individual
mental states, mostly unknown, which influence these answers.
Recent discouragement on the farm, though only temporary, would
probably be reflected here. A flippant or insincere attitude
on the part of the one answering the questions would make the
questionnaire valueless. So far as is known, very few of these
difficulties were encountered. The most outstanding faults were
in the lack of knowledge on the part of the boys, due in many cases,
doubtless, to immaturity, and the fact that they had not yet had
to consider making a living for themselves very seriously.

CASE STUDIES

Following the procedure as outlined by Stetson and Huffaker¹⁶, case studies were made of each of the boys in the Forest Grove, Oregon, High School who were taking, or had taken, agriculture. Information was compiled to show high school record, personal and social record, health, social and economic status, mental test results and data found through personal interview and questionnaires.

In the school record are included the average grade made by each boy in the school subjects he has attempted and his total average for all subjects. In connection with this record, his chronological age is listed. The I.Q., based on results of the Otis Self Administering test, is listed in all but a few cases.

The personal and social record includes, largely, extra curricular activities in the high school. Almost no social activities are included in the life of these farm boys outside of high school, as they are kept too busy working at home. Occasional community base ball games or religious associations fill their outside social calendar. Such personal information as is at hand was obtained by repeated contact of the writer with the boys in their homes and in class or with other boys with whom each associated.

The health record is the result, also, of the writer's observations and the boys' own reports.

The social and economic status of each individual, as recorded, is the result of repeated visits and observations of the instructor together with reports of the boys, both verbal and in the questionnaires. In about half of the cases some hereditary occupational background was ascertained. The possibility of the boy's becoming established in farming was taken up from the social and economic standpoint by noting the size and value of the farm belonging to the parents and the number of brothers and sisters, especially those who might be interested in continuing to live on the home farm.

Personal interviews are constantly held by the writer with these boys at school during the school year and once, or more, each month throughout the year at their homes in connection with their agricultural project work. Following the compilation of these case records and questionnaires interviews were held with the boys over the information contained, in an effort to clarify any uncertain points as much as possible and to render such aid as might be possible in vocational guidance and educational counseling.

Summaries of the entire case information were then tabulated in an effort to draw general conclusions with reference to the factors concerned in, and needs of, vocational guidance of farm boys.

The individual case studies and summaries follow:

CASE NUMBER ONE

Age - 16.

Years in high school - 2.

I.Q. - 89

Average grades

Agriculture . . .	88
English	70
Mathematics . .	80
Science	70
Total average .	75
Failures . . .	5

School Record

The only subject in which this boy has shown any special interest has been agriculture. He is easily discouraged in studying and lacks perseverance. When interested, he is industrious. Otherwise, he is not. He is regular in attendance. His five failures are due to lack of interest and application, probably brought about by the fact that his I.Q. is slightly below average and he becomes easily discouraged.

Personal and Social Record

Some teachers have expelled this boy from their classes and he has been more or less a source of irritation to all. He is loud and noisy, wears unusual clothing and is mischievous. His chief desire is to become a football player and he has taken continuous and severe punishment on the football field for two seasons without making the team. Otherwise, he takes no active part in school life. He is not a leader among those his own age. He works at home on the farm during the school year and in the summer spends his time between the farm and the logging camp of which his father is foreman.

Health Record

Aside from a finger off on one hand the boy is normal.

Social and Economic Status

The boy's parents are Americans. One grandparent was a farmer. The father is a logging camp foreman who lives away from his family most of the time. The family lives on a forty five acre farm, valued at \$8000 and situated about three miles from town on a good road. They have a car and apparently a comfortable living. Their standard of living is good. There is one younger brother and an older sister. The brother may stay on the farm but that is very uncertain. The family is ambitious

Case # 1

for their children in every way. For country people they appear above the average in culture.

Mental Tests

On the Otis group test in his freshman year this boy scored seven per cent above average. His Intelligence Quotient, as figured from the Otis Self Administering Test this past year was only 89. It is a question just where he belongs.

Boy's Occupational Choice

This boy seems to take it as a matter of course that he is to be a farmer. He likes farm work, is accustomed to it, and agriculture is the only course in which he has been interested in school. His record and general attitude make it problematical as to how long he will stay in school. Out of fifty seven questions bearing on vocational choice this boy answered thirty two in such a way as to indicate farming as his most practical objective, with apparently only five answers against it and twelve definitely uncertain. His I. Q. fits such occupational choice. The chief objection to the home farm is that it is small. Farming is more than likely a wise choice in this case. The boy will probably also follow his father's footsteps and work part of his time in logging camps.

CASE NUMBER TWO

Age - 15.

Years in high school - 1.

I.Q. - 89.

Average grades

Agriculture . . .	82
English	74
Mathematics . . .	77
Science	84
Total average .	79

School Record

This boy has been regular in attendance. He indicates on his questionnaire that agriculture and science are his most interesting subjects, with English and algebra his least interesting. He is a good worker, with a great deal of perseverance. To date he has not failed, though his I.Q. is a little below average.

Personal and Social Record

Howard is a quiet well behaved boy. He has taken no part in school activities, to date, and has displayed no

leadership ability. His time outside of school is spent working on the farm at home.

Health Record

Howard is strong and normal for a boy of his age.

Social and Economic Status

The parents are Americans of German parentage. The grandparents were both farmers in the old country and the father is a more than ordinarily successful farmer. There is a farm of seventy two acres. The boy has two sisters and no brothers. The family standard of living is average. They are fine cooperative people and ambitious for their children. The father hopes the boy will stay on the farm.

Mental Tests.

According to the results of the Otis Self Administering Test Howard has an I.Q. of 89. His work in class would indicate this to be about right.

Occupational Choice

As with many boys of his age aviation is the occupational choice of this boy at present. His answers to his questionnaire show twelve favoring this occupation; two against

and three uncertain. If considered from the farming standpoint, he has nineteen questions answered in favor of farming, five against and twelve uncertain. It is believed that aviation is probably inadvisable in this case because of the boy's slowness, both mentally and physically. Farming is probably his best outlook as he is an only son to take over the farm of his parents. His I.Q. is about that of the average farmer.

CASE NUMBER THREE

Age - 15.

Years in high school - 1.

I.Q. - 93.

Average Grades

Agriculture . . . E and 82
English E and 72.
Mathematics . . . 75 and E
Science E and E
Total average . . E
(E is failure.)

School Record

As will be observed from his grade record, Donald is a very poor student. This is not because he does not work as he is a conscientious plugger. He seems utterly unable to comprehend or remember much of the school work that is simple to others. He gives agriculture and science as the subjects that interest him most and algebra and English as his least interesting. He has been regular in attendance.

Personal and Social Record

Donald has not been a discipline problem. The other boys cause trouble at times by making fun of him. He takes no part in school activities.

Health Record

This boy seems to be healthy but is undersized, under developed and immature for his age.

Social and Economic Status

The boy's parents are Americans. One grandparent was a lumberman and the other a carpenter. The father is a county road supervisor. They live on a piece of timber land, eighty six acres, worth about \$5160, with about an acre cleared near their good modern house. They appear to be pleasant people

Case # 3

with a little above the average farm culture and standard of living. They are ambitious for their children and much disappointed in this boy's school work. The boy has three younger brothers. None of them plans to stay on the farm so far as is yet known.

Mental Tests

According to results of the Otis test this boy's I.Q. is 93. His results in the school room would indicate that it was lower than this.

Occupational Choice

This boy says he thinks he wants to be a farmer. His questionnaire revealed twenty four answers favoring farming, three against and nine uncertain. His I.Q. is about that of the average farmer. If the father succeeds in clearing the timber and stumps from his land the boy will have a good start. If not, it will be an uphill job. Donald will probably stand a better chance of making a living on a farm than in most occupations. It is difficult to be sure at his immature stage.

CASE NUMBER FOUR

Age - 14.

Years in high school - 1.

I.Q. - 113.

Average Grades

Agriculture	91
English	87
Mathematics	91
Sciences	88
Total average	89

School Record

This case is an intelligent freshman who reports that he does not dislike any of his subjects but that agriculture and algebra interest him most. He has been regular in attendance and is industrious at school.

Personal and Social Record

No discipline problem is involved in this case. He is quiet and unassuming and does not take part in school activities. His spare time is spent at home where his family takes part in no community life.

Health Record

Herman was reared in a city until the last two years and was a frail youngster. On the farm his health has greatly improved until he appears as strong as the average boy of his size. He is undersized for his age.

Social and Economic Status

This boy comes from an ancestry of merchants. His parents were German Jews. The father died this past year and the mother is keeping the family together on a fifteen acre place, rather isolated from society. She says she is doing it for the children's health. They appear to have a constant but small income and are improving the farm as rapidly as possible to increase the family income. The boy has two sisters. The mother is ambitious for her children.

Mental Tests.

According to the results of the Otis test this boy has an I.Q. of 113. His school work would indicate this.

Boy's Occupational Choice

This boy is certain of but one thing and that is that he doesn't like the country and wants a city job. Some line of merchandising or selling is probably his best field

of endeavor. Unless he takes more interest in farming he will not make much out of the place although he is the only son and the work does and will fall on him. The best course for him is the one being pursued by his mother; that is, to keep him on the farm until he is more robust and mature and finishes high school. After that they will probably all go to the city. His questionnaire gives seven answers for, nine against and sixteen uncertain as to farming for a life occupation.

CASE NUMBER FIVE

Age - 14.

Years in high school - 1

I.Q. - 112.

Average Grades

Agriculture . . .	91
English	85
Mathematics . . .	92
Sciences . . .	90
Total average .	89

School Record

This boy is a good student. He reports algebra as being his most interesting subject and English as his least

interesting subject. He is regular in attendance and industrious in school.

Personal and Social Record

No discipline trouble is found in this case.

He was a substitute on the base ball team this year but has taken little part in other school activity. He probably will be more active as he develops.

Health Record

This boy appears to be normal physically for one of his age and reports no physical handicaps.

Social and Economic Status

The parents of this boy are more like city people than farmers, being cultured and well educated. The mother is an accomplished singer. The grandparents were Kansas farmers at least on one side. The family now lives on a twenty three acre farm worth \$12,000, near a paved highway four miles from town. Poultry is the chief enterprise. There is one sister. The parents are ambitious for and interested in their children.

Mental Tests

According to the results of the Otis Self Administering Test this boy has an I.Q. of 112. His school work corroborates this.

Boy's Occupational Choice

To be an aviator is the desire of this lad. His answers to questions reveal thirteen favoring this objective, none against and three uncertain. If farming be considered as an occupation for the boy the questionnaire reveals seventeen answers definitely favoring farming, three against and thirteen uncertain. He might be successful in this field. Only maturity and aviation tests can tell. As an only son he would fall heir to his parent's farm but it is not large enough to be very attractive at present. No recommendation can be made on this case as yet.

CASE NUMBER SIX

Age - 14.

Years in high school - One half year.

I.Q. - Unknown.

Average Grades

Agriculture . . .	84
English	75
Mathematics. . .	83
Sciences	85
Total average .	82

School Record

In grade school this boy was reported as a little below average in accomplishment. He has been regular in attendance and has no failures. He reports that his most interesting subjects are science, algebra and agriculture and his least interesting is English.

Personal and Social Record

No discipline problem has been met in this case. The boy is quiet and industrious. He took part in athletics in grade school and comes from an athletic family but has not had a chance to show himself yet in high school.

Health Record

No physical difficulties are noticeable or reported.

Social and Economic Status

This boy's parents are Americans. His father is dead. His mother works out some and the older brothers contribute to the support of the family. They seem to be comfortable and maintain a good standard of living. It is a family of average education and culture. Their ambition for the boy is good. He is the youngest of a family of five brothers and three sisters.

One brother and sister only remain at home. They live close to town on a thirty acre farm, one half of which is owned and one half rented. The father was a farmer. One older brother and this boy operate the farm at present.

Mental Test

A mental test on this boy has not yet been given. His school work would indicate his I.Q. to be low average.

Boy's Occupational Choice

A farmer is what this boy wishes to be at present. In his questionnaire he gave twenty five answers definitely favoring farming, none against it and eight uncertain. The chief obstacles in his way are the size of farm, which is too small for more than one man, the older brother who is staying on the farm, and limited financial means. A shift in any one of these might leave the road more easily open. The boy is too young to be sure of himself yet or for any definite recommendation to be made.

CASE NUMBER SEVEN

Age - 14.

Years in high school - 2.

I.Q. - 118.

Average Grades

Agriculture	80
English	86
Mathematics	78
Science	80
History	70
Total average . . .	80

Failed twice in History.

School Record

This boy's I.Q. indicates ability to do better school work than he is doing. He is big and overgrown for his age, mischievous and does not get along well with some teachers. This, and lack of application, probably accounts for his failures. He is not very persevering and industrious in school except for a time after each punishment for discipline. He reports that the subjects he likes best are the ones that have action and experimenting; such as, science and agriculture. He dislikes English most.

Personal and Social Record

While this boy is mischievous he is not a mean type. The other boys characterize his actions as "crazy". He takes no active part in school life other than play at noon.

He is too busy at home to take part in community activities.

Health Record

The boy reports no physical handicaps other than susceptibility to poison oak. Aside from being overgrown he shows no particular physical difficulty.

Social and Economic Status

The parents are deceased and the boy and his two sisters are adopted. The step-father is a poultry farmer. They are Americans. The farm of fourteen acres, worth \$4,000, is located five miles from town on a paved highway. The step-parents are good average farm folks in every way. They appear to be kind and considerate of the children. This boy is hired out to a neighboring farmer for the summer.

Mental Test

The Otis Self Administering test shows an I.Q. of 118 in this case.

Boy's Occupational Choice

To be a livestock farmer is this boy's ambition. His questionnaire shows twenty four answers favoring farming, two against and six uncertain. He says he may get some

assistance through inheritance but he does not know how much. According to Prof. H. D. Souder of the Oregon State College Farm Management Department, the average investment in dairy farming in Oregon is \$23,000. Lack of capital is probably this boy's greatest handicap in attaining his farming ambition. If he 'steadies down' as he matures, his I.Q. should enable him to do other work in the beginning, if need be.

CASE NUMBER EIGHT

Age - 16.

Years in high school - 1.

I.Q. - 91.

Average grades

Agriculture . . .	85
English	83
Mathematics	87
Science	88
Total average . . .	85

School Record

This boy has been regular in attendance, is industrious and a good worker in school. His greatest difficulty

Case # 8

is in having unusual erroneous ideas. His most interesting subjects are agriculture and science; his least interesting is English. His grades are good for one of his I.Q.

Personal and Social Record

This boy has offered no discipline problem in high school to date. He is rather a heavy set, awkward, slow type and has taken no part in school life as yet.

Health Record

The boy reports himself as not extra strong but healthy. His father and brother are big strong men and it is simply a matter of immaturity in this case.

Social and Economic Status

The father is rather an unsuccessful American farmer. The family lives on a farm of sixty acres six miles from town on a good road. Their standard of living is not high. The family ambition is good, however, as shown by the four girls' finishing high school; one being a teacher and one preparing to teach. One older brother works the farm with the father at times but the boy of this case, who is the youngest in the family, reports that the older brother will not stay on the farm.

Mental Test

In the Otis Self Administering test this boy showed an I.Q. of 91, or low average.

Boy's Occupational Choice

As yet no choice has been made as to what this boy desires to do for a living later. His questionnaire showed nineteen answers favoring farming, two against and fourteen uncertain. His environment, I.Q., and general make up will probably result in his being either a farmer or a logger. By the time he graduates from high school he will probably have to take over much of the farm work as his father is well along in years. He will have to change many of his father's methods, if he is to be successful, however.

CASE NUMBER NINE

Age - 17.

Years in high school - 2.

I.Q. - 113 (?)

Average grades

Agriculture . . .	75
English	70
Mathematics . .	75

Science	81
History	73
Total average .	75

School Record

Lyle's attendance has been regular, but his industry and perseverance in student work are not good. He is big and overgrown and sleepy in class. He has failed at least twice, due mostly to lack of industry. He reports History and Geography as his most interesting subjects with English and Algebra as his least interesting.

Personal and Social Record

No discipline problem, other than trying to get the boy to work, is involved here. For two years he has earned his football letter. He takes active part in class and student organization meetings. He is active in his community athletic club where he acts as secretary and during the past year took part in a community play.

Health

A big, homely, red headed, overgrown boy best describes this case. So far as is known he has no physical defects. His sleepiness is probably due to growing too fast.

He reports himself as healthy and of average physical strength, but his actual strength is unusual for one of his age.

Social and Economic Status.

The parents are Americans, descendants of Oregon pioneer farmers in their little community about nine miles from town. The father is a farmer but works out in the woods and on the road a great deal. One brother works in a logging camp. The mother has been a district school teacher. This boy works on the farm, in logging camps and on the road during the summer. It takes all the family together to make ends meet. The father is not successful as a farmer. They live on a farm of forty acres devoted to dairying, poultry and truck crops. The family is ambitious, especially for this boy.

Mental Test

Year before last the boy made a score of -24 on the Otis Group Test. Last year his I.Q. figured 113 as a result of the Otis Self Administering Test. His school work has been more in keeping with the -24 score. I have never known him to do work in keeping with an I.Q. of 113.

Boy's Occupational Choice

Case # 9

Teaching and coaching in a Junior High School is this boy's ambition, instilled into him by his mother. His questionnaire shows twelve answers for this occupation and ten against it, with six uncertain. If farming were considered, the questionnaire shows sixteen for, seven against and thirteen uncertain. It is my guess that he will never make a teacher because of his scholarship, dislike for studying and extremely poor handwriting and English. His logical and most practical outlook seems to be to farm and work out as his father has done. If he ever makes a teacher he will have to come to a realization of the necessity for conscientious and consistent student effort soon. He can meet people fairly well and could probably succeed as a coach and class disciplinarian.

CASE NUMBER TEN

Age - 15.

Years in high school - 1.

I.Q. - 93.

Average grades

Agriculture . . .	81
English	50
Mathematics . .	75
Science	80
Total average .	75

School Record

A quiet little fellow, giving but little disciplinary trouble, characterizes this case. He is about average in industry and persistence and regular in attendance. He has one failure in English, which seems to be a most difficult subject for boys below 105 I.Q. He reports algebra and agriculture as his most interesting subjects and English as the least interesting.

Personal and Social Record

Aside from a tendency to loaf and talk in class, no discipline problem is noted here. The boy takes no active part

in school activities and has displayed no leadership ability. He has a 'hang dog' look as if he always expected to be scolded.

Health Record

The boy reports himself as healthy and strong. No physical defects are apparent but he is small and not robust.

Social and Economic Status

This boy is the youngest of a family of five brothers and three sisters. Four brothers are farmers. The father is a carpenter. They recently lost their five acre farm because of doctor bills. The parents are Americans, very agreeable and interested in the boy and his welfare, but cannot be of much use to him in guidance. Through some arrangement the family continues to live on the farm which the doctor took over.

Mental Tests

According to results of the Otis Self Administering Test this boy has a low average Intelligence Quotient of 93.

Boy's Occupational Choice

To become an electrician is the desire of this boy.

His questionnaire reveals four answers for, two against and fifteen uncertain with regard to his taking up this occupation. According to the results of Army tests given during the war electricians averaged 105 to 114 I.Q., making this boy at least twelve points below average in this respect. His grades in Mathematics average 75 and in science 80, which may be somewhat indicative of his ability in this field. From the standpoint of farming as an occupation, his questionnaire shows nine answers favoring it, five against and nine uncertain, with fifteen pertinent questions entirely unanswered.

It is impossible to very definitely advise in this case, due to the boy's immaturity, I.Q. and lack of financial assistance and physical strength.

CASE NUMBER ELEVEN

Age - 15.

Years in high school - 1.

I.Q. - 93.

Average school grades

Agriculture . . .	86
English	76
Mathematics . .	93
Science	88
Total average .	85

School Record

This boy is persevering and industrious and a satisfactory pupil. His attendance is regular. He is above average in mathematics but low in English.

Personal and Social Record

No better attitude could be asked of a high school freshman than this boy has in class work. He is somewhat quiet, lives too far from school to take part in athletics and takes no active part in student organizations.

Health Record

A normal, healthy boy of good strength.

Social and Economic Status

This boy's father is a saw mill man. They live on a sixty five acre place eleven miles from town on a good road. Only about five acres of the place are cleared. The father takes very little interest in the farm, letting the boy do much as he pleases with it. The boy has one brother and two sisters. The father and mother seem interested in the welfare of their children and willing to cooperate in anything that is for their best interest. Their standard of living appears to be a little below average.

Mental Test

According to the Otis Self Administering test this boy has an I.Q. of 93.

Boy's Occupational Choice

In common with many other high school boys, this one aspires to be an engineer. It is not believed that he will be successful in this occupation, chiefly on account of his I.Q. According to the results of the army examinations the average I.Q. of engineers is between 125 and 149. With an I.Q. of 93 this boy would stand little competitive chance. In farming he would be as good as the average in mental level. By developing the 65 acres he doubtless could establish himself in farming. He likes farm work.

CASE NUMBER TWELVE

Age - 15.

Years in high school - 1

I.Q. - 82.

Average grades

Agriculture . . . 81 - E

English E - E

Mathematics . . . 76 - E

Science 73 - 75

E is failure

School Record

This boy reports that he likes agriculture and science best and dislikes algebra and especially English. The last one he cannot get because it seems impossible for him to spell and write correctly. He is regular in attendance and a fairly good worker in school but seems unable to get desired results. The cause may be due partly to lack of study at home, but is mostly due to his low I.Q.

Personal and Social Record

Although mischievous, this boy is not a disciplinary problem. He takes no part in school activities although he would try football if his grades permitted.

Health Record

Case # 12

A big, strong, healthy, overgrown boy fits this case exactly. He reports himself as healthy and strong.

Social and Economic Status

The parents are Americans. One grandfather was a farmer and the other a woodworker. The family owns two 165 acre farms, one highly developed. The father is a successful farmer and always seems to have money for the boys' needs. They live comfortably. They are very ambitious for their boys but discouraged as to this one's school possibilities, though they are sending him back for one more try. There are two brothers, both of whom, including this boy, will probably farm. The farms which they will inherit will make this possible.

Mental Test

According to the results of the Otis Self Administering test this boy's I.Q. is 82. His school work is in keeping with these findings.

Boy's Occupational Choice

There is only one logical thing for this boy to do and that is farm. Fortunately he desires to do so. With a 165 acre farm to inherit he has a big start, with the farm experience already attained, toward making a comfortable living.

On his questionnaire twenty one answers favor farming, only one is against it and seven are uncertain.

CASE NUMBER THIRTEEN

Age - 14.

Years in high school - 1.

I. Q. - 104.

Average grades

Agriculture . . .	82
English	76
Mathematics . .	76
Science	84
Total average .	80

School Record

This is a happy-go-lucky, easy going boy who is average in perseverance and industry, slightly irregular in attendance but with no failures to date.

Personal and Social Record

Aside from a tendency to loaf a little and talk too much no discipline problem is noted in this case. He is much interested in athletics and was a substitute on the baseball team this year. Otherwise, he takes part in no school or community activities. Hunting and baseball are his hobbies.

Health Record

Case # 13

The boy reports himself healthy and strong. Although slightly built he is wiry. No defects are noticeable.

Social and Economic Status

This boy's parents are Americans. They live a mile off a good road, four miles from town, on a hill top eighty acre ranch about a third of which is improved. They have the name of being shiftless. They are clean but almost ambitionless, aside from ekeing out an existence on the farm. The father is easy going and the three brothers and three sisters do about as they please. No moral difficulties are known, however. None of the family plans on staying on the farm but as it is the easiest thing to do some of them probably will.

Mental Test

According to the Otis test this boy has an I.Q. of 104. His school work would verify this.

Boy's Occupational Choice

Grandparents on both sides and the father are all farmers. The boy doesn't know what he wants to do. On his questionnaire ten answers favor farming, four are against it

and twelve are uncertain. He reports agriculture as his most interesting subject. The family are all the enlisted man type. Unless they would learn to work consistently, they would not last very long except in the army or navy or on their own farm.

CASE NUMBER FOURTEEN

Age - 18.

Years in high school - 2.

I.Q. - 86.

Average grades

Agriculture . . .	75
English	70
Mathematics . . .	0
Science	80
Shorthand	77
Civics	80
Failures	9

School Record

It seems utterly impossible for this boy to do high school work even when he tries. Because of discouragement his effort has not been good lately. He is regular in attendance and because his subjects were hard he dropped to one less

Case # 14

than the customary number this past year. He reports biology, agriculture, civics and general science as his most interesting subjects and foreign languages, algebra and English as his least interesting.

Personal and Social Record

This boy has never been a disciplinary problem.

His only school activity is basketball. During the school year he spends his spare time on the street corners. In the summer he stays on an uncle's cattle ranch in eastern Oregon.

Health Record

He reports himself as naturally healthy and strong but is not robust. No physical defects are in evidence.

Social and Economic Status

The father is a carpenter but the boy seems interested in a farmer uncle more than in his father's occupation. The parents are good common Americans of the trade class with an average, or below, standard of living. The father works only at odd times. Apparently they are living on some inheritance. The boy has one brother who is studying to be a cartoonist and has some artistic ability. He had the same trouble in school as this boy.

Mental Tests

According to the Otis Group test two years ago this boy made a score of 44. The Otis Self Administering test gave him an I.Q. this past year of 86. His school work accords with these.

Boy's Occupational Choice

Uncertainty marks this boy's occupational outlook. He is wavering between going on a livestock ranch or trying to become a taxidermist or artist. It is believed that the first named fits him best, although he will probably never be anything but an employee. He has some skill with carpenter tools and could probably make a living at this if he had to do so. He needs to develop consistent effort along some one line or he will never amount to much anywhere.

CASE NUMBER FIFTEEN

Age - 15.

Years in high school - 1.

I.Q. - 119.

Average grades

Agriculture . . . 87

English 90

Case # 15

Mathematics . . . 90
Science 90
Total average . . 89

School Record

This boy is irregular in attendance because his father makes him work at home. He is a good worker and very satisfactory pupil. He reports agriculture as his most interesting subject and English as his least liked, though he has a better average in English than agriculture.

Personal and Social Record

No discipline trouble is had in this case. He is kept too busy at home to participate in school or community activities. He is a little, well-built fellow who will probably gradually develop leadership ability.

Health Record

The boy reports himself as strong and healthy and I believe him to be.

Social and Economic Status

This boy's father is a district school principal and he and the boys operate a fifteen acre farm besides. Berries and cows are their chief enterprises. The father does a great

deal of cattle buying and selling. He has undoubtedly been financially a success as they have a Buick sedan, a fine modern home and are planning a trip east this winter. The house is not well furnished, however, and the father is so close with his money that the boys have to earn their way. This makes the boys rebellious. The culture of the home is above average. The father wants the boys to go to school but keeps them home to work too much and will not assist them any through college and gives them only essentials for high school.

Mental Testing

According to the Otis Self Administering test this boy has an I.Q. of 119. His school work is in accord with this. He is one of the very few boys taking agriculture who can make a good grade in English.

Boy's Occupational Choice

Farming is this boy's present objective. His questionnaire reveals eleven answers definitely favoring farming, three against and six uncertain. The chief objection to farming as an occupation for this boy is the difficulty he will have financially in getting started. A boy with his I.Q., who is able to teach or do other professional work is likely to do so and not return to farming.

CASE NUMBER SIXTEEN

Age - 15.

Years in high school - 1.

I.Q. - 91.

Average grades

Agriculture . . .	85
English	73
Mathematics . . .	88
Sciences	77
Total average . .	84

School Record

This boy has a winning personality which would lead one to judge him as having a higher I.Q. than that shown. His school work is about as would be expected for one of his I.Q. He has come close to failure in English but has not failed. He is regular in attendance and chiefly interested in agriculture.

Personal and Social Record

Much more active in school affairs than the ordinary would characterize this boy. He has taken part in track, glee club and class meetings and is planning more and bigger things for next year. He is too busy to be a discipline problem. He is cooperative and has leadership ability.

Health Record

The boy reports himself as being healthy, strong. He gives every appearance of being so.

Social and Economic Status

The parents are American farmers of high type. They live on a fifty six acre dairy and fruit ranch, worth \$15,000, seven miles from town on a good road. There is one sister, a high school graduate, who is working in the city as a stenographer. Their standard of living is average, as is their education and culture. They are more successful than the average farmer and this is one thing that is influencing the boy in choosing his life objective. Both grandparents were farmers. The father hopes his boy will take over the farm and has gone so far as to take him into partnership on seven pure bred heifers already.

Mental Tests

The I.Q. of 91 was figured as a result of giving the Otis Self Administering test of general intelligence.

Boy's Occupational Choice

Fortunately for all, this boy desires to be a farmer. As an only son of interested, understanding, successful farm parents he will have every advantage in this regard. As was mentioned, his father has already started him into partnership on the herd of pure bred Jerseys. The boy's questionnaire reveals twenty four answers favoring farming with only one against and eight uncertain.

CASE NUMBER SEVENTEEN

Age - 17.

Years in high school - 2.

I.Q. - 98.

Average grades

Agriculture . . .	81
English	73
Mathematics . . .	85
Sciences	80
History	75
Total average . .	77

School Record

No failures are recorded. The boy is more mature than most his age and is interested, persevering and industrious in his school work. His attendance is regular.

Personal and Social Record

This boy is not a disciplinary problem. He is too busy to take part in school athletics and keeps to himself too much to display leadership. His time out of school is spent working on the farm. During the summers he hires out as a harvest hand and makes very good wages.

Health Record

The boy reports himself as healthy and strong and he certainly appears so.

Social and Economic Status

The boy's parents are congenial American farmers. The father runs large farms for others who own. They seem comfortably situated financially with a home well furnished and a Dodge sedan. They cooperate well for the children's interests. The boy is the oldest in a family of five, having one younger brother and three sisters. He is getting excellent instruction in one method of working into the farming business from the way his father is doing.

Mental Test

The I.Q. of 98 resulted from the score made in the Otis test.

Boy's Occupational Choice

This boy is uncertain yet as to whether he wishes to be an auto mechanic or a farmer. His questionnaire reveals seventeen answers favorable to a mechanic's occupation, none against and two uncertain. From the standpoint of farming as his occupational choice the questionnaire reveals thirty favorable answers, one against and four uncertain. His mechanical ability has not been observed. He has a Ford car of his own. His I.Q. would favor success in either field.

CASE NUMBER EIGHTEEN

Age - 16.

Years in high school - 2.

I.Q. - 116.

Average grades

Agriculture .	E and 84
English	73
Mathematics .	90 and E
Printing	75
Average	73

School Record

Case # 18

In two years time this boy has only made six credits when he should have sixteen. He does not seem to have done any better in trade courses than others. He seems conscientious and industrious but unable to comprehend. I question the correctness of his I.Q., although some physical condition may be responsible for his lack of accomplishment.

Personal and Social Record

Some disciplinary trouble has been experienced with this boy but nothing more serious than disturbance in class. He would like to take part in athletics but has neither the time nor ability. He has taken no particularly active part in student activities.

Health Record

This boy reports that he is uncertain as to his health and strength and that he is five pounds underweight. He does not look well but there is no identifiable difficulty evident to an ordinary layman.

Social and Economic Status

The parents are dead and the boy has been reared by the sister and brother-in-law. They are not well off, being

Case # 18

in partnership with the father-in-law on the farm the older man owns. The boy has to work hard for his board, room, etc. and his associations are none too agreeable. There are no other children in the family group. There is little financial or social outlook for the boy there.

Mental Tests

The score made in the Otis test gives an I.Q. of 116. I question the accuracy of this test as the boy's effort and scholarship do not correlate with it.

Boy's Occupational Choice

What this boy will do is a big problem. It seems evident that he will strike out for himself soon and he is not big and strong enough to do constant heavy labor. He does not know what he wants to do. His questionnaire reveals eleven answers favorable to farming, four against and fifteen uncertain. If he could get pleasant associations as an employee on a poultry farm he might eventually work into something for himself. Outdoor work is probably best for his health.

CASE NUMBER NINETEEN

Age - 15.

Years in high school - 2.

I.C. - 107.

Average grades

Agriculture . . . 79
English 78 and E
Mathematics . . 75 and E
Science 85
Total average . . 79

School Record

This boy is a practical turn of mind and will not study anything unless he sees value in it. This has, with irregular attendance, been responsible for the two failures and grades lower than they should be. He does not work very hard in school, reading magazines rather than studying, whenever he can get away with it.

Personal and Social Record

Aside from his tendency to sidestep studying, this boy has given very little disciplinary trouble. He takes no active part in school activities as he is kept busy at home.

Health Record

The boy reports himself as strong and healthy and he certainly appears so.

Social and Economic Status

The grandparents of this boy were a farmer and a slate and stone roof maker in the old country. The father is a German farmer and the whole family works with him. They live on a fifteen acre farm which they leased for five years and have improved to a great extent. They are doing well on it. This boy is the youngest in a family of four brothers and three sisters. He and one sister are the only ones remaining at home, the others being self supporting. The family is thrifty, frugal and hard working. Their income, however, is small.

Mental Tests

According to the Otis Group test for general intelligence, given two years ago, this boy has a mental rating of plus four. This was corroborated this year in the Otis Self Administering test, which showed him as having an I.Q. of 107. His ability to do school work correlates with this, although his grades do not.

Boy's Occupational Choice

Farming is this boy's objective. Thirty one of the answers in his questionnaire favored this occupation for him, one was against it and seven were uncertain. He plans to start by renting and working out as his parents are doing. By following their thrifty example he will succeed. He is a good worker on the farm.

CASE NUMBER TWENTY

Age - 16.

Years in high school - 2.

I.Q. - 98

Average Grades

Agriculture . . .	83
English . . .	70
Mathematics . 80 - E - E	
Sciences . . .	85
Total average .	75

School Record

This boy has failed six times in two years. While he is not a discipline problem and is industrious after a fashion, it is because he has to be and not because he wants to work.

Lack of purpose and ambition in school work will account for most of his poor showing.

Personal and Social Record

This boy is not a discipline problem. He is a two year letterman in baseball, which is his chief interest. Other than this, he takes no active part in school life outside of classes. He is especially fond of hunting.

Health Record

There is no evidence of any abnormality. The boy does the regular work on a dairy farm and seems healthy and strong.

Social and Economic Status

One grandfather was a farmer and wagon maker; and one, a farmer. The parents are fine type American farm people with an up-to-date successful dairy ranch. They have a good home, well furnished. There is one married sister, an older brother who is staying on the farm and a younger brother. The farm consists of eighty eight acres, all in cultivation, worth \$18,000. The parents are ambitious for all of their boys to stay on the farm.

Mental Tests

In the Otis Group test two years ago this boy made a rating of - 51. In the Otis Self Administering test this last year

his score rated an I.Q. of 98. My associations with him as a pupil would lead me to judge him as having low average intelligence.

Boy's Occupational Choice

This boy does not know what he wants to do. There is no doubt in my mind but that he will do best on the farm and will doubtless eventually be a farmer. Although eighty eight acres is rather small to split up among three boys and a sister, the parents are able and willing to help the boys get started and that is a big advantage.

CASE NUMBER TWENTY ONE

Age - 14.

Years in high school - 1.

I.Q. - 100.

Average grades

Agriculture - .	82
English	70
Mathematics . 77 - B	
Science	80
Total average . .	77

School Record

Case # 21

One failure in his freshman year and very low in English. The boy had to be persuaded to go to high school and is not entirely sold on its value. He seems to be able to get his work when he tries but does not work as hard as he could. He is regular in attendance and his perseverance and industry are average but he lacks enthusiasm.

Personal and Social Record

Except for his lack of interest and a tendency to talk too much in class, this boy has not been a problem. He has a good tenor singing voice and was a member of the boys' glee club this year. He is quiet and bashful and takes very little part in other student activities.

Health Record

The boy reports that he was not healthy as a youngster but that he is now, though not strong. He is not robust in appearance. There are no noticeable defects unless it be lack of weight.

Social and Economic Status

The boy's grandparents were farmers. Most of his relatives are farmers. The father farms his father's farm. They

Case # 21

do not appear to be unusually successful, perhaps because they take life too easily. The farm consists of sixty acres, all in cultivation, six miles from town on a good graveled road. There is one other brother in the family. Aside from the mother, they seem to lack ambition. Their standard of living and culture are only fair.

Mental Tests

The Otis Self Administering test gives this boy an I.Q. of 100. His school work is a little below this.

Boy's Occupational Choice

This boy desires to become a musician, probably being interested through his father's playing in the town band. He reports that he can now play some on the guitar, organ, mouth harp and ukelele. His questionnaire shows only two answers definitely favoring his choice of occupation. He has not the financial means back of him for a musical education. His actual talent I do not know. The Army tests showed the average I.Q. of musicians to be 105 - 114, which makes this boy's slightly low. From the standpoint of farming as an occupation the boy's questionnaire shows ten questions favorable, five against and nineteen uncertain. It is a problem as to what he should do and he is probably too young to decide yet.

CASE NUMBER TWENTY TWO

Age - 15.

Years in high school - 1.

I.Q. - 98.

Average grades

Agriculture . .	80
English	71
Mathematics . .	92
Sciences . . .	90
Total average .	86

School Record

This boy has no failures. His attitude and industry are good and his grades satisfactory for one of his I.Q. He reports agriculture as his most interesting subject and English as his least interesting. He has been regular in attendance.

Personal and Social Record

This boy is too busy in and out of school to be a disciplinary problem or take part in student activities.

Health Record

The boy reports that he is healthy but not strong. This probably fits his case. He has no observable abnormality.

Social and Economic Status

This boy's parents are Americans. The father recently purchased a thirty one acre farm for \$1600, on time, and works in a sawmill to support the family and to try to pay out on the place. The boy has to do the farm work. They barely can make ends meet. There is one sister, who is also a high school girl. Both the boy's grandparents were farmers and the father is making a desperate effort to re-establish himself as one.

Mental Tests

According to the results of the Otis Self Administering test, this boy has an I.Q. of 98. His school work would indicate this to be about correct. He works hard for his better than average grades.

Boy's Occupational Choice

This boy's questionnaire shows twenty five answers favorable to farming as an occupation and only one against, with six uncertain. He wishes to be a farmer and expects to work his way into it. He is industrious and enthusiastic and I believe he will succeed, although his father cannot help him. He is a great aid to his father now in establishing him as a farmer.

CASE NUMBER TWENTY THREE

Age - 20.

Years in high school - 5.

I.Q. - Unknown.

Average Grades

Agriculture . . .	85
English	81
Mathematics . .	75
Sciences	82
History	89
Journalism . .	85
Typing . . .	70
Total average .	81

School Record

This boy took one year more than usual to get through high school, due to lack of adjustment and application. He went through a very irresponsible and trying period. In his senior year, when I knew him, he made all of his grades in a creditable way. He was often tardy and a little irregular in attendance.

Personal and Social Record

Aside from habitual tardiness, this boy was not a discipline problem this past year. His attitude in class was one

Case # 23

of interest and his effort good, though erratic. He took part on the staff of the high school paper and was a member of the senior play cast, besides various other minor activities. Meanwhile he took care of the entire dairy herd of five cows and the young stock at home in addition to other farm work. His one present vice is cigarettes.

Health Record

The boy reports himself as fairly healthy and of average strength. He has bad teeth. He seems to be physically capable of doing farm work.

Social and Economic Status

One of this boy's grandparents was a farmer and the other a carpenter farmer. The parents are cultured American farm people living in a very good modern well furnished farm home on a fine 105 acre diversified farm, worth \$21,000, three miles from town and on a good graveled road. They seem to be comfortable but are not well enough financed to send their boy and girl to college.

Mental Test

No mental test has been given to this boy. I would estimate his I.Q. to be about average, or a little above.

Boy's Occupational Choice

Farming, fortunately, is the occupation this boy desires to follow. As an only son, and with parents getting on in years, the farm will soon be his to run. He is planning to take a two year short course in Agriculture at college before then. His questionnaire reveals twenty three questions favorable to and five against farming as his occupation, with nine uncertain. He did not take agriculture until his senior year, after he had decided that he was going to farm. Then he took two courses at once.

CASE NUMBER TWENTY FOUR

Age - 17.

Years in high school - 3.

I.Q. - Unknown.

Average Grades

Agriculture . . .	84
English	75
Mathematics . . .	74
Sciences	83
Languages	80
History	79
Total average . .	78

School Record

This boy has had one failure in English. Doubtless it was too much for his ability, for he is conscientious, industrious and persevering. His attendance is regular.

Personal and Social Record

Because of his rather quiet nature there has been very little participation in school activity in this case. He spends most of his time out of school working. During the winter he has a paper route and during the summer he works on a farm.

Health Record

This boy is small but strong and healthy. He has done a man's work on a farm since he was fourteen years old. The same farmer hires him and is high in his praise of him.

Social and Economic Status

The family is a large one living in town. The father is a laborer. They are French Catholics. Because of the small income, the boys have had to work out as soon as they were able. The culture and standard of living and moral example are low in the home. They do not farm their own place but work out for others.

Mental Tests

No mental test results are available on this case. From his school work I would judge him to be some where near, or possibly below, average.

Boy's Occupational Choice

This boy's questionnaire gives twenty two answers favoring farming, none against it and thirteen uncertain. He would like to farm but because of his lack of finances he cannot see his way clear to start. For this reason, he plans to go into business, which means to get a city job. His questionnaire shows twenty nine answers favorable to this, one against and two uncertain. He is the type of boy who is handy, able, willing and responsible. He will make good in either place, although he will probably not rise to any executive position in any large business. I am looking for some arrangement whereby he can afford to start farming.

CASE NUMBER TWENTY FIVE

Age - 17.

Years in high school - 4.

I.Q. - 99.

Average Grades

Agriculture . . . 77

English . . . 75

Mathematics . .	76
Sciences . . .	81
History . . .	76
Typing	90
Total average .	77

School Record

This boy has failed at least six times. He should have graduated this year and did not. He is conscientious and a steady worker in class but very slow to comprehend and very slow to do his work. He is always one of the last ones to finish an examination, which means that some examinations are not finished by him. He is regular in attendance. He reports English and agriculture as interesting him most and agriculture as being most disliked.

Personal and Social Record

No disciplinary measures are ever needed with this boy. He is quiet and unobtrusive. He is a two year basket ball letterman, being captain this past year. He takes little active part in student affairs outside of athletics. He is also a baseball letterman.

Health Record

Case # 25

This boy reports himself as healthy and strong.

His prominence in athletics would make one think he was, yet he does not look as if he were. He has always given the impression that he is badly afflicted with adenoids. If so, this may account for his mental slowness in class work.

Social and Economic Status

The grandparents of this boy were both farmers.

The father is a successful dairy and peach farmer. They have a twenty five acre ranch close to a small town. They are well fixed financially and their social status is above average. The father has been a member of the school board. There are two brothers and one sister. One brother is a laundry wagon driver and one is working his way through college towards an agricultural teacher's position. The sister is younger. None of the boys plans to stay on the farm unless this one does.

Mental Tests

According to the Otis Self Administering test this boy's I.Q. is 99. His school work and slowness of response would indicate that it was lower than this.

Boy's Occupational Choice

In spite of his dislike for agriculture as a subject, his questionnaire shows twenty four answers favoring farming with only seven against and five uncertain. He says he wishes to be a teacher. For this his questionnaire shows nineteen for, twelve against and four uncertain. His slowness mentally almost precludes success in any professional field. As he is good at farm work and is the only boy in the family at all interested in it he seems to be the logical one to take over the farm from his father. How it will develop cannot be foreseen, however.

CASE NUMBER TWENTY SIX

Age - 19.

Years in high school - 4.

I.Q. - 95

Average Grades

Agriculture . . .	87
English	76
Mathematics . . .	81
Science	84
Language	74
History	88
Total average . .	82

School Record

No failures are recorded here. Science is his most interesting study and English his least interesting. His school work was generally satisfactory until graduation this year.

Personal and Social Record

This boy has caused no discipline trouble. He is a high school track man and in his senior year a member of the glee club, Press Club and Chemistry Club. He is rather uncouth in actions and appearance and not liked by the girls for this reason.

Health Record

He reports himself as healthy and strong and appears to be so.

Social and Economic Status

This boy is the only son of American farmer parents. They are fairly successful but ambitious for the boy beyond his capabilities and have encouraged him to leave the farm for some professional field. They are not financially able to help him a great deal.

Mental Tests

The Otis Self Administering test gives this boy an I.Q. of 95, which is about in accord with the quality of his school work.

Boy's Occupational Choice

To be a musician or chemical engineer would satisfy this boy well. He has very little musical ability and lately has decided on chemical engineering. His questionnaire reveals thirteen questions favoring this objective and six against, with eight uncertain. The Army tests showed the average engineer's I.Q. to be 125 to 149, whereas this boy's is only 95.

From the standpoint of farming as an occupation the questionnaire shows ten for, one against and four uncertain.

The boy has an idea of going to sea the first year or two out of high school in order to see the world. He wants to stop over and study music in Germany, he says.

It would seem that a boy of his nature and ability, an only son, would be much better off on the farm than elsewhere. What will come of the dissatisfaction with the farm, on the part of both parents and boy, is hard to say. It probably will not be professional success.

CASE NUMBER TWENTY SEVEN

Age - 16.

Years in high school - 3.

I.C. - 104.

Average grades

Agriculture . .	85
English	72
Mathematics . .	74
Sciences	80
Languages . .	75
History	75
Total average .	77

School Record

This boy has failed twice, due to lack of interest and application. It has been difficult to keep him in school at times. He has been regular in attendance, however. He reports English and science as his most interesting subjects and French and History as his least interesting.

Personal and Social Record

Aside from lack of interest and effort this boy has not been much of a problem. He was a baseball letter man the past year but aside from this has taken but little part in school life.

Health Record

Case # 27

This boy's mother has been threatened with tuberculosis and the boy has had the idea that he has it, too. Medical examination does not show this to be the case. He is tall and flat chested and not very strong but his lack of energy is probably due mostly to too rapid growth.

Social and Economic Status

The grandparents of this boy as well as aunts and uncles are all farm people. The father runs a nine acre place and operates a milk route. The place belongs to one grandfather who lives with them and cares for about three hundred chickens and a garden for his living. Their standard of living and culture are average in the home. The mother is especially ambitious for her two boys and is the chief cause of this one's staying in school. They are interested and cooperative.

Mental Tests

According to the Otis Self Administering test of general intelligence, this boy has an I.Q. of 104 or average. His school grades are a little below this, although he will doubtless graduate this next year.

Boy's Occupational Choice

The questionnaire on this case shows answers which may be summarized as follows:

For farming - 15	Against - 9	Uncertain - 9
For law - - 14	Against - 6	Uncertain - 8
For store mgr.17	Against - 5	Uncertain - 6

To this we must add the average I.Q.'s for these occupations which run as follows:

Farmers - 85 to 95. Lawyers - 125 to 149. Store Managers or clerks - 105 to 114.

His school accomplishment and I.Q. certainly make law inadvisable.

As he says he very much dislikes the farm, he will probably seek employment in a chain store and do fairly well there.

CASE NUMBER TWENTY EIGHT

Age - 16.

Years in high school - 3.

I.Q. - 97.

Average Grades

Agriculture . . .	91
English	80
Mathematics	85
Sciences	90
Languages	82

History . . . 82

Total average . . 85

School Record

In three years' time this boy is within half a year of graduation. He is persevering and industrious and never has been a discipline problem.

Personal and Social Record

Because of his rather quiet nature, no student activities have been engaged in by this boy.

Health Record

The boy reports himself as having average health and not being very strong. He has had more or less sickness all his life, though less recently. He seems to be quite well at average farm work, however.

Social and Economic Status

The parents are Americans. Relatives are engaged in various fields as doctor, plumber, salesman, jeweler and sawmill man. The father is more interested in logging than farming and is not a progressive or successful farmer. They seem to have enough money for comfort but their standard of living is not

Case # 28

high. They let the boys' ambitions pretty well take care of themselves. There are three brothers and an older sister. Two of the brothers expect to stay on the farm, which is 181 acres, worth \$12,000, about one third of it in cultivation. It is situated one fourth mile off a main paved highway and four miles from town.

Mental Tests

The results of the Otis test give this boy an I.Q. of 97. His school work would indicate one higher than this.

Boy's Occupational Choice

The questionnaire on this case shows seventeen answers favoring farming, four against and thirteen uncertain. The boy is undecided. He would like to go to college but lacks the finances. Medicine has appealed to him some but it is probably beyond both his mental and physical ability to attain. He would probably do better on a farm than elsewhere and as he is the oldest boy he could probably work in permanently with his father. He will graduate when seventeen and can work out a year before going to college, if he desires. Some college work would be rather difficult for him but I believe he would succeed.

CASE NUMBER TWENTY NINE

Age - 16.

Years in high school - 3.

I.Q. - 100.

Average Grades

Agriculture . . .	91
English	84
Mathematics . .	86
Sciences . .	91
Languages . . .	91
History . . .	90
Total average .	89

School Record

This boy is within one half year of graduating in three years. He is a much better student than his I.Q. would indicate, probably due to his industry and perseverance. His attendance is occasionally irregular on account of health, but not often so.

Personal and Social Record

This little fellow spends most of his time going and coming from school and working around home. He has never been a discipline case and has taken no active part in school life outside of classes.

Health Record

He reports that he is neither healthy nor physically strong. He is slight and very nervous and has some bronchial trouble. As a rule he seems to keep up with his home and school work very well.

Social and Economic Status

One of this boy's grandfathers is a farmer. He has an uncle that is a farmer and one that is a grocer. The parents are Americans of average type. The farm of fifty two acres has not given them a very satisfactory income, due, perhaps, to its being small, but mostly to poor management on the father's part. They do not feel able to send their boy to college although he is the only child. They are very ambitious for him but puzzled as to what he can do.

Mental Tests

According to the Otis Self Administering test for general intelligence, this boy's I.Q. is 100. His school work would indicate something higher than this, though he may have accomplished his grades by unusual industry.

Boy's Occupational Choice

This boy says he wishes to be an electrician,

although in talking to him, I find a great deal of uncertainty in his mind as to what he wants. His questionnaire shows fifteen answers favoring, seven against and seven uncertain as to this objective. His I.Q. is a little low but he would probably make up for it in industry. If farming is considered, his questionnaire shows twenty two answers favoring it, nine against and four uncertain. In either field he would probably be successful. The initial help he would get on the farm, as an only son, would be a great advantage. Farming, especially with the use of modern machinery, would probably be best for his health.

CASE NUMBER THIRTY

Age - 17.

Years in high school - 3.

I.Q. - 107.

Average grades

Agriculture . . .	91
English	86
Mathematics . .	92
Sciences . . .	85
Languages . . .	85
History	90
Total average .	88

School Record

This boy is industrious and regular in attendance. His grades are all satisfactory. He is somewhat interested in all of his subjects.

Personal and Social Record

This boy is very well behaved and has a good attitude towards school. He has leadership ability but has never taken any active part in school life outside of class.

Health Record

This boy is small for his age, though he seems healthy and strong now. He was brought west several years ago by his father on account of asthma, from which the boy seems to have recovered.

Social and Economic Status

The mother is dead and the father, who is well along in years, purchased a twenty eight acre farm on which he and the boy have kept some cows and raised such garden as they needed. They recently built a small new house. The father is devoting all he has to the boy. There is one older brother with them now. They are bachelors all and live very simply and cheaply.

Mental Tests

According to the Otis Self Administering test this boy has an I.Q. of 107. His school work is about in accord with this. He often gives me the impression that he is considerably above this.

Boy's Occupational Choice

Civil Engineering or wireless operator are the occupations appealing to this boy at present. His questionnaire shows twenty seven answers in favor of the former, two against and three uncertain. The I.Q. of the average engineer being between 125 and 149 would put this boy somewhat low in this respect. For wireless operator, there are twenty three favorable answers, three against and three uncertain. Only an actual tryout would probably decide as to this occupation. The result would probably be favorable, however. For farming as an occupation, there are twenty answers favorable, five against and eight uncertain.

In my opinion this boy would make a very successful agricultural teacher.

CASE NUMBER THIRTY ONE

Age - 18.

Years in school - 3.

I.Q. - 97.

Average Grades

Agriculture . .	93
English	77
Mathematics . .	85
Sciences	85
Language . . .	.70 and E
History	78 and E

School Record

Two failures in three years have been recorded for this boy; one in Latin and one in history. The Latin was too difficult for him. It is hard to account for the other as he is unusually conscientious, industrious and persevering.

Personal and Social Record

No disciplinary problem is found here. The boy is rather quiet, almost timid, and takes little part in school life. He is kept busy at home on the farm.

Health Record

A big, fairly strong, farm boy would characterize this case. He has grown too rapidly to have come to his full strength yet.

Social and Economic Status

The parents are Americans from former grandparents. They own 370 acres and are successful in farming. They are careful with their money but seem to have it when they want it. Their standard of living and culture are average. There is one brother who expects to stay on the farm but the farm is large enough for all three. The parents are very ambitious for their boys and desired this one to become a lawyer but are beginning to see that he hasn't the student ability.

Mental Tests

According to the Otis Self administering test this boy's I.Q. is 97. His school work would indicate about this.

Boy's Occupational Choice

Until recently this boy planned to be a lawyer. The difficulty of his school work has impressed him with his lack of wisdom in seeking this occupation. Now he speaks rather definitely of becoming a farmer. His questionnaire indicates

nineteen answers for, none against and fifteen uncertain as to farming. As the farm is large enough for all and the parents are glad to have the boys at home, there is probably nothing wiser than for this boy to farm.

CASE NUMBER THIRTY TWO

Age - 17.

Years in high school - 4.

I.C. - 108.

Average Grades

English . . .	88
Mathematics . .	90
Science	91
History	88
Bookkeeping . .	95
Total average .	89

School Record

There are no failures in this case. The boy is of the student type, regular in attendance and industrious. He especially likes sciences and mathematics and likes history and English the least. He has never taken agriculture.

Personal and Social Record

A very quiet studious boy who never makes any trouble, would characterize this case. He was a member of the Junior Chamber of Commerce and Chemistry Club, but otherwise took no active part in school life.

Health Record

He reports himself as being healthy and strong but is not robust. He has done very little farm work.

Social and Economic Status

The family lives on a small farm three miles from town on a good graveled road. The father is a logger. The mother is an ex-school teacher and very ambitious to have her boy have a city position. They do not seem to be very well off financially but would probably sacrifice a great deal to send this, their only child, to college.

Mental Tests

According to the results of the Otis Self Administering test of general intelligence the I.Q. in this case is 108. This would accord with his school record.

Boy's Occupational Choice

Uncertainty marks this boy's mental state as to his future occupation as he graduates from high school. He doubtless will not be a farmer. If he can finance college he would succeed in becoming a scientist or teacher, I believe. If he can only finance business college he will make a good bookkeeper.

CASE NUMBER THIRTY THREE

Age - 18.

Years in high school - 3.

I.C. - Unknown.

Average Grades

Agriculture . .	82
English . . .	60 (four failures)
Mathematics .	65 (one failure)
Science . .	82
History . . .	77
Total average .	72

School Record

This boy has five failures to his credit in three years, having failed in English almost consistently and in mathematics once. These failures are due to indifference and

lack of application, to some extent. He is also somewhat irregular in attendance. In all probability his I.Q. is below average also. He writes that he is chiefly interested in agriculture and dislikes French and English most.

Personal and Social Record

This boy has not been a problem aside from lack of effort and a disposition to talk too much in class. He takes little active part in student affairs except that he is very much of a 'ladies' man'. During his freshman year he did not get along well with the other boys but this difficulty seems to have been overcome.

Health Record

He reports himself as healthy and of average strength physically. He does not look very well, although better than he formerly did.

Social and Economic Status

One of this boy's grandfathers was a farmer and the other a sawmill man who lived in the country. The father is a carpenter and farmer. They are thrifty people of Russian stock and seem to have enough income to make noticeable improvements on their place each year.

The farm consists of thirty acres about half of which is in prunes. It is three miles from town on a good market road. There are four sisters and one older brother. None of them expects to stay on the farm. They are about average as to culture and standard of living. The parents wish all of their children to get a high school education and have shown too much patience with this boy in this regard.

Mental Tests

No mental test has been given this boy. He has probably purposely evaded it, as have others. I would judge that the entire family is below average. One sister has an I.Q. of 82, although that, of course, is no certain indication of where this boy would place.

Boy's Occupational Choice

Farming or something else is the way this boy states his occupational preference. His questionnaire shows twenty answers definitely favoring farming, two against and eleven uncertain. During the summers he has been working as harvest hand in eastern Oregon. He prefers that kind of farming to that found in the Willamette Valley. If the older brother leaves the home farm, this boy will probably stay on with his father and work out at common or farm labor at odd times.

CASE NUMBER THIRTY FOUR

Age - 18.

Years in high school - 2.

I.C. - 103.

Average grades

Agriculture . . .	92
English	88
Mathematics . . .	85
Sciences	90
Languages	75 and E
Salesmanship . . .	75
Occupations . . .	80
History	88
Total average . . .	85

School Record

Three failures in his first year in high school mar this boy's otherwise satisfactory and gradually improving record. They were doubtless due to lack of interest and application. At present he is a conscientious and intelligent worker. He is regular in attendance and makes the best of his time all of the time. He reports sciences and literature as his most interesting subjects and spelling and mathematics as his least interesting.

Personal and Social Record

Since coming to the high school where I teach, this boy has never been a discipline problem. He has been too busy in and out of school to be very active in school affairs but was elected to the presidency of the agricultural department club this past year and is displaying real leadership ability. He likes athletics but has little time for them.

Health Record

Aside from sieges of boils this boy seems to be healthy, strong and normal. He reports himself so, though he says he is too small for his age. This is not as much^{of} a handicap as he thinks.

Social and Economic Status

Up to three years ago this boy's father was a farmer. At that time the mother died and broke up the family circle. The father obtained a city job as a salesman and this boy was sent to live with an uncle where he works for his keep. The uncle is a successful truck and fruit farmer. The boy has made good and is well liked. He has to work hard to make his way but is not treated unkindly. The uncle has a fine modern country home, the standard of living is high and they are of more than average culture.

Mental Tests

According to the Otis Self Administering test of general intelligence this boy's I.Q. is 103. His school work lately would justify the belief that his mental level was higher than this.

Boy's Occupational Choice

The occupational choice in this case is that of farmer. He can take over his father's farm when through high school, if he wishes. His main handicap is lack of capital and the fact that the farm is seventeen miles from town. His questionnaire gives twenty answers favoring farming, four against and ten uncertain. By hard work this boy would make a successful agricultural teacher, provided he could finance himself through college.

CASE NUMBER THIRTY FIVE

Age - 17.

Years in high school - 4.

I.Q. - 99.

Average grades

Agriculture . . .	85
English . . .	81
Mathematics .	93

Sciences . . .	84
Language	84
Manual Training .	80
Total average .	82

School Record

No failures are recorded in this boy's record and he has graduated from high school one year earlier than average. His grades are about average. His most interesting subject is mathematics and his least interesting English and history.

Personal and Social Record

This boy is too quiet and slow physically and mentally to get into any trouble in school or to take part in any student activity actively. He was a member of the Chemistry and Agricultural Clubs in his senior year.

Health Record

The boy reports himself as naturally healthy but not strong. He has doubtless been growing too rapidly and does not look strong.

Social and Economic Status

The boy's parents are Americans. Two years ago the father left the farm to run a bottled milk business in town.

He failed and is now in the second hand business. Meanwhile the 160 acre farm, worth \$10,000, is rented. The boy says the father never was a success at anything. It seems evident that the boy can get no financial assistance. The mother is very ambitious for her children but it does not seem to carry over well to the boys.

Mental Tests

According to the Otis Self Administering test this boy has an I.Q. of 99. His school work is in accord with this.

Boy's Occupational Choice

This boy wanted to become a mechanical engineer but, I believe, he has neither the persistence nor energy to reach such a goal, if other things were equal. His questionnaire shows seventeen answers favorable, ten against and six uncertain as to this objective. The average I.Q. of a mechanical engineer, however, is between 105 and 114 and this boy's is only 99, which is additional reason why the goal is inadvisable.

From the standpoint of farming there are eighteen reasons for, six against and nine uncertain. With the father's farm to take over it would seem to be the logical thing for him to do. However, he says he doesn't like the farm and if he

Case # 35

cannot be a mechanical engineer he may become a barber. Unless he develops some definite interest and energy he will not amount to much any where. Perhaps this will come as he matures.

TABLE I

Case No.	Father		Farm Size	Farm Value	Number of		No. stay on farm	Boy stay on farm			Preference for		Reasons given
	Own	Rent			broth-ers	sis-ers		Yes	No	Uncert.	Country	City	
1	1		45 a.	\$8,000	1	1	1	1	---	---	1	---	
2	1		72	---	---	2	---	---	---	1	1	---	Better place
3	1		86	5,160	3	0	---	1	---	---	---	---	to live.
4	1		15	2,000	0	2	0	---	1	---	---	1	Prefers city work.
5	1		23	12,000	---	1	---	---	1	---	1	---	Health
6	$\frac{1}{2}$	$\frac{1}{2}$	30	6,000	5	3	1	---	---	---	1	---	More room & enjoymt.
7	1		14	4,000	---	2	0	1	---	---	1	---	Best hand training.
8	1		60	---	1	4	---	---	---	---	---	1	Always lived there.
9	1		40	4,000	1	1	1	---	1	---	1	---	" " "
10		1	6	2,500	5	3	4	---	1	---	1	---	
11	1		65	4,300	1	2	---	---	1	---	1	---	Always lived there.
12	1		330	---	1	---	---	1	---	---	1	---	Best life.
13	1		80	---	3	3	0	---	1	---	---	---	
14				---	---	---	---	---	---	---	1	---	Likes outdoors.
16	1		56	15,000	---	1	---	1	---	---	1	---	Always lived there.
17		1	190	25,000	1	3	---	1	---	---	1	---	Can go to city.
19		1	15	---	4	3	2	1	---	---	1	---	Likes to see things
20	1		88	18,000	2	1	1	---	1	---	1	---	grow. Where always lived.
21	1		60	---	1	---	---	---	1	---	---	1	
22	1		31	1,600	---	1	---	1	---	---	1	---	Doesn't like to
23	1		105	21,000	---	1	---	1	---	---	1	---	lie around.
25	1		25	10,000	2	1	0	---	1	---	1	---	
26	1			---	---	1	0	---	1	---	---	1	
27	1		9	---	1	---	0	---	1	---	---	1	Reared in city.

TABLE I - Continued

Case No.	Father	Farm	No. of broth- ers sis- ters	No. stay on farm	Boy stay on farm			Preference for		Reasons given			
	Own Rent	Size			Value	Yes	No	Uncert.	Country		City		
28	1	.181 a.	\$12,000	3	1	2	---	--	1	1	---	More to do.	
29	1	.52	12,000	---	---	---	---	1	---	1	---	Outdoors & health.	
30	1	.28	3,000	1	---	0	---	1	---	1	---	Freedom & health.	
31	1	.330	---	1	---	---	---	--	1	1	---	Reared there.	
33	1	.30	---	1	4	---	1	--	---	1	---	More money in it.	
34	1	.160	---	2	2	---	1	--	---	1	---	Easier to make living.	
35	1	.160	10,000	2	2	---	---	1	---	---	1	Doesn't like monotony.	
TOTALS of 31 cases													
Total	25½	3½		41	45		11	13	3		23	5	
%	86	14					35	42	10		74	16	
Average82a.	\$8,709	1.3	1.4	1.66							

TABLE II - continued

Case No.	Age	I.Q.	Aver. School grade	Family Infl. Appar. finan. success	Ambition	Education boy expects to get	Ans. considered Probable	Improbable	Finan. Assist. Amount	Uncertain	No answer	Furnished by Inheritance	Parents	Relatives	Borrowed	Otherwise	Work his way	Yes	No	Part	No answer	
19	15	107	79	W	G	H.S.	1															
20	16	98	75	G	G	College		1	All O needs				1					1				
21	14	100	77	W	W	Bus.	1			1								1				
22	15	98	86	P	G	College		1		1								1				
23	20		81	P	G	College	1											1				
24	17		78	P	W	College		1		1			1		1							
25	17	99	77	G	G	College		1		1			1						1			
26	19	95	82	G	W	College		1		1												
27	16	104	77	G	W	College		1		1			1					1				
28	16	97	85	G	P	College		1		1			1					1				
29	16	100	89	G	W	College	1			1			1					1				
30	17	107	88	G	G	College	1			1			1					1				

TABLE III

Case No.	Grandparents' Occupations		Father's Occupation	Occup. of relatives which interest boy	Boy's Occupational Choice	Considered	
						Wise	Unwise
1	Farmer		Foreman, lumb.	Farming	Farming	1	
2	Farmer	Farmer	Farmer	Farming, car dealer, elec. student, garage men, surveyor	Aviator		1
3	Lumberman	Carpenter	Road Super.		Farming	1	
4	Merchant	Merchant	Merchant	Gasoline service stn.	Doesn't know		
5	Farmer		Farmer		Aviator		
6			Farmer	Livestock farmer	Farming	1	
7			Farmer	Farming	Livestock farm.	1	
8			Farmer		Doesn't know		
9	Farmer	Farmer	Farmer		Teaching		1
10			Carpenter	Farming	Electrician		1
11			Sawmill man		Engineer		1
12	Farmer	Woodworker	Farmer		Doesn't know		
13	Farmer	Farmer	Farmer		Doesn't know		
14			Carpenter	Livestock ranch, taxidermist, artist	Doesn't know		
15			Farmer and teacher		Farming		1
16	Farmer	Farmer	Farmer	Auto mechanic	Farming	1	
17	Farmer	Farmer	Farmer	Mech., blacksmith, farmer	Mechanic or farming	1	
18			Farmer		Doesn't know		
19	Farmer	Slate & stone roof maker	Farmer	Farming, muskrat raising, sheriff, optical work.	Farming	1	
20	Farmer	Farmer & wagon maker	Farmer		Doesn't know		

Case No.	Grandparents' Occupations	Father's Occupation	TABLE III - Continued		Boy's Occupational Choice	Considered	
			Occup. of relatives which interest boy			Wise	Unwise
21	Farmer	Farmer	Farmer		Musician		1
22	Farmer	Farmer	Laborer & farmer		Farmer		1
23	Farmer	Carpenter		Aviator,			
		Farmer	Farmer	Salesman, greenhouse,	Farmer		1
24			Laborer		Business		1
25	Farmer	Farmer	Farmer	Teacher	Teacher		1
26			Farmer	Banker, rancher.	Chem. Engineering		1
27	Farmer	Farmer	Milk route driver	R.R. engineer	Lawyer or Store manager		1 (Store mgr.)
28			Farmer	Sawmill, farmer, salesman, plumber, doctor.	Undecided		
29	Farmer		Farmer	None	Electrician		1
30	Farmer	Farmer	Farmer	Auto mechanic, fireman, postmaster	Wireless operator or Civil engineer		1
31	Farmer	Woodworker	Farmer	Dentist, musician, trained nurses	Farmer		1
32			Logger		Undecided		
33	Farmer	Sawmill man	Carpenter farmer		Farmer		1
34			Farmer	Farmer, carpenter	Farmer		1
			Salesman				

TABLE III - Continued

Case No.	Grandparents' Occupations	Father's Occupation	Occup. of relatives which interest boy	Boy's Occupational Choice	Considered Wise	Unwise
35		Farmer	Barber, railroad man store clerk	Mech. engineering		1
36	Farmer	Farmer	Farmer	Teacher		1
37		Farmer	Farmer	Electrical engin.	1	
38	Farmer	Electrician	Electrician	Electrician	1	
39		Farmer	Farmer	Manager drayage sys.	1	
Totals						
	Farmers 32 - 76%	Farmers	25-64%		18 - 50%	
	Tradesm. 6 - 14%	Tradesmen	3- 8%			
	Lumberm. 2 - 4%	Lumbermen	3- 8%		12 - 30%	
	Merchants 2 - 4%	Others	8-20%			
					No answer. 9 - 20%	

TABLE IV

Case No.	Occupational Choice	No. of answers definite & correct	Incrr. or uncertain	Knowledge entirely lacking	No answer
1	Farmer	10	4	1	
2	Aviator	5	8	1	1
3	Farmer	7	6	1	1
5	Aviator	10	5	...	
6	Farmer	6	4	...	5
7	Farmer	5			10
9	Teacher	7	3	1	4
10	Electrician	6	3	1	5
15	Farmer	9	4	...	2
16	Farmer	11	...	...	4
17	Mechanical work or farm.	6	3	2	5
19	Farmer	6	3	...	6
21	Musician	5	7	2	1
22	Farmer	6	4	...	5
23	Farmer	10	5	...	...
24	Business	9	6	...	...
26	Chemical engineering	2	...	...	13
36	Lawyer	3	8	...	4
25	Teacher	7	6	...	2
29	Electrician	7	8	...	...

TABLE IV - continued

Case No.	Occupational Choice	No. of answers definite & correct	Incorr. or uncertain	Knowledge entirely lacking	No answer
30	Civil engineer	5	5	3	2
31	Farmer	9	4	1	1
33	Farmer - Laborer	7	7	1	...
34	Farmer	13	2	...	...
35	Mechanical engineer	2	9	4	...

TOTALS of 25 cases

TOTALS	173	114	18	71
Averages	7	4.3	.7	3
Per cent	47 %	30 %	4 %	19 %

TABLE V

Case No.	Age	I.Q.	Agric. Grade	Eng. Grade	Answers favor farming	Answers against farm.	Ans. pert. to farm. uncert. or incorrect	No. questions Not answered
1	16	89	88	70	32	5	4	4
2	15	89	82	74	19	5	12	2
3	15	93	70	60	24	3	9	1
4	14	113	91	87	7	9	16	1
5	14	112	91	85	17	3	13	2
6	14		84	75	25	0	8	1
7	14	118	80	86	24	2	6	3
8	16	91	85	83	19	2	14	0
9	17	113	75	70	16	7	13	0
10	15	93	81	50	9	5	9	15
12	15	82	81	50	21	1	7	4
13	14	104	82	76	10	4	12	10
14	18	86	75	50	20	1	11	1
15	15	119	87	90	11	3	6	0
16	15	91	85	73	24	1	8	1
17	17	98	81	73	30	1	4	0
18	16	116	75	73	11	4	15	4
19	15	107	79	65	31	1	7	0
21	14	100	82	70	10	5	19	0
22	15	98	80	71	25	1	6	3
23	20		85	81	23	5	9	0
24	17		84	75	22	0	13	2
26	19	95	87	76	10	1	4	3
27	16	104	85	72	15	9	9	0

TABLE V - Continued

Case No.	Age	I.Q.	Agric. Grade	Eng. Grade	Answers favor. farming	Answers against farm.	Ans. pert. to farm. uncert. or incorrect	No. questions Not answered
25	17	99	77	75	24	7	5	0
28	16	97	91	80	17	4	13	0
29	16	100	91	84	22	9	4	0
30	17	107	91	86	20	5	8	0
32	17	108		88	11	0	7	1
31	18	97	93	77	19	0	15	0
33	18		82	50	20	2	11	0
34	18	103	92	88	20	4	10	0
35	17	99	85	81	18	6	9	0

Average	16	97	83	74	19 or 57%	3.7 or 11%	9.5 or 28%	1.7 or 4%
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TABLE VI

Case No.	Aver. I.O. Grade	Sch. grades pert. to occup. choice	Occup. Choice	Answers favoring occup.	Answers against occup.	Uncert., incorr. or not ans.
2	89	79	Math. - 77 Aviator	12	2	3
5	112	89	Math. - 92 Aviator	13	0	3
9	113	75	English - 70 Teaching	12	10	6
10	93	75	Science - 80 Math. - 75 Electrician	4	2	15
11	93	85	Math. - 93 Engineer	6	0	0
17	98	77	Math. - 85 Mechanic	17	0	2
21	100	77	In Glee Club Musician	2	0	0
24		78	Math. - 74 English - 75 Business	29	1	2
25	99	77	Math. - 76 English - 95 Teacher	19	12	4
26	95	82	Math. - 81 Chem. engineer	13	6	8
27	104	77	English - 72 Lawyer	14	6	8
27	104	77	Math. - 74 Store manager	17	5	6
29	100	89	Math. - 86 Science - 91 Electrician	15	7	7
30	107	88	English - 86 Wireless operator	23	3	3
30	107	88	Math. - 92 Civil engineer	27	2	3
35	99	82	Math. - 83 Mech. engineer	17	10	6
Average				15	5.5	5

TABLE VII

ACCOMPLISHMENTS OF SMITH-HUGHES AGRICULTURE

State or Fed. Government	Now farming	In related Occupations	Went to Agric. Colleges	Went to non- Agric. Colleges	In non-agric. Occupations
Federal govt.	59%	6 %	9 %	15 %	11 %
New Jersey	74	.....	....	.....	.....
Wisconsin	53.6	11	....	.....	.....
Nevada	43.3	.....	2.2	9.4	35.8
Idaho	43.5	2.7	4.9	10.4	12
Illinois	54.9	.....	5.8	.....	.....
California	69	.....	....	.....	.....
Kansas	63	11	....	.....	.....
Massachusetts	45	8	....	.....	47
Indiana	76	.....	....	.....	.....

These figures were obtained from Federal Board for Vocational Education Bulletin # 82, Agricultural Series # 13, and from answers to questions directed to the various state offices of the Federal Board for Vocational Education by letter. The states tabulated were the only ones having the information available.

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