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Attitude Change in Prince Edward Island Farmers
Effected by a Multi-Media Production

M Robert Gillis

A Thesis Equivalent

in

The Department

of

Education

Presented in Partial Fulfillment of the Requirements

for the Degree of Master of Arts at

Concordia University

Nontreal, Quebec, Canada

September 1986

6 M. Robert Gill/s / 1986

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### ABSTRACT

Attitude Change in Prince Edward Island Farmers
Effected by a Multi-Media Production

### M. Robert Gillis

The purpose of this thesis was to design and evaluate a media production aimed at encouraging P. E. I. farmers to grow two new varieties of ryegrass in place of their traditional timothy and clover forage crops. A total of 28 farmers were pretested, shown a 10-minute slide/tape format production and then given a post test to measure attitude change.

It was found that there was a significant attitude change toward acceptance of the new ryegrasses following intervention by means of a slide/tape presentation.

With farmers who had not previously grown ryegrass, 13 of 14 or 93% showed a desire to grow ryegrass after the treatment.

For those who had previously grown ryegrass, 9 of 11/or 82% showed a desire to grow more ryegrass as a result of viewing the production.

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# TABLE OF CONTENTS

.		Page
List	of Tables	v:
List	of Figures	. vii
CHAPT	ER 1: THE PROBLEM.	1
1	A Short History	1
(	Current Tests	2
CHAPTI	ER 2: PRODUCTION BACKGROUND AND DESIGN	5
• 1	Purpose of the Media Presentation	. 5
•	Target Audience	6
,. 1	Educational Objectives	. ნ
(	Outline of Content and Format	. 7
,	A Rationale for the Media Selection	
ŧ	and Production Design	8
1	Production Requirements	. 10
CHAPT	ER 3:/ METHOD	. 12
:	Evaluation Method Rationale	. 12
_ 1	Production Evaluation	. 14
	Testing Procedure	. 16
CHAPT	ER 4: RESULTS AND DISCUSSION	. 19
/ /	Test Data Summary: The Pretest	
/·  ·	The Post Test.	. 23
,	Attitude Measurement Data	
* / :	Discussion	.30
/ /	Suggestions for Further Study	. 32

# TABLE OF CONTENTS (cont'd) References ..... Appendix A ........ Appendix B ...... Appendix C ....

### List of Tables

. :			•	Page
Table 1. Sum	y of Pretest-Responses			21
Table 2. Jumi	mary of Post Test Response	: <b>\$</b>		24
Table 3. Fred	quencies of Responses befo	re and		
afte	r Treatment			29

3

v1/I

## List of Figures

1)

1		rage
Figure 1	Production Evaluation Design	15
Figure 2	Distribution of Residence Locations	!
	of Respondents	20

### CHAPTER I

### The Problem

This thesis equivalent attempts to deal with an educational problem that exists in the farming community in Frince Edward Island. Canada. The problem was to find an effective way to encourage farmers to grow two new varieties of rvegrass instead of the traditional timothy and clover forages. The following narrative gives a brief history, which helps explain the problem.

### A Short History

The McCardle Bros. 138 acre farm on P. E. I. was used mainly for potato production from 1831 to the present. The three brothers. Fred, Leonard, and Frank, hold university degrees and decided to pool their skills in administration, business management and agriculture to expand the 138 acres to the present 1.500 acres which is comprised of both purchased and rented land.

Many characteristics of P. E. I. climate and soil make the island ideal for potato production for which it has become known the world over; however, the instability of the potato market creating boom or bust on a yearly basis caused the McCardle Bros. to look to other more stable crops as

their source of revenues. As a result they began growing seed grains and seed grasses.

The growing of certified seed of any kind requires adherence to government regulations with respect to disease control, product quality and purity. Certified seed assures adherence to strain characteristics such as plant or fruit quality, maturation time, disease resistance and climate requirements. Farmers could keep their own seed year after year but generally, the further one gets from certified seed in generations, the less the organism will adhere to its original strain characteristics.

Farmer's growing crops for certified seed must be expert as requirements by the Department of Agriculture are rigorous but the payoff is a higher price for their product.

Ryegrass seed is not produced in Canada. Seed production in both Alberta and Ontario was attempted but in both cases the results were poor. (Heath, Metcalfi and Barnes, 1975.) As a result ryegrass seed for Canadian use is purchased from the U.S., most of which is produced in the state of Oregon.

### Current Tests

In 1980 McCardle Bros. began experimenting with ryegrass seed production. They had already invested in equipment for harvesting timothy seed and being able to

harvest ryegrass with the same machinery made the project that we made the project that we will store, mix, clean and chemically treat grain for commercial sale. This plant will also be able to handle ryegrass seed.

The results of their test plots in rvegrass seed production were very encouraging. They began testing one variety in 1981 which had not been certified for use by the Canadian Department of Agriculture. It is a new variety which has been developed and patented in Britain and for which they purchased rights to sell as certified seed in 1984. They began growing it for experimental purposes and after learning many things about the variety by strictly trial and error basis, can now produce 1.100 kg/ha. This variety called Lemtal is now certified for use by the Department of Agriculture and is a perennial meaning it produces seed the second year. They also produce an annual variety called Aubade and both varieties grow exceedingly, well in P. E. I.

P. E. I. has a total annual precipitation of 1086.8 mm with 1935.9 hours of bright sunshine and a temperature in winter which seldom falls below -8 c (Statistics Canada, 1984) so conditions for growing these two varieties of ryegrass on P. E. I. are ideal.

Ryegrasses have been traditionally used for hay and pasture in Australia. New Zealand, the British Isles, and the temperate regions of Europe. (Heath, Metcalif and Barnes, 1975) The U. S. and Canada use ryegrass for sheep, dairy, and beer production. It is traditionally less winter hardy than certain other forage crops such as clover and timothy and as a result much more of these two crops is used in the Maritimes. 771,000 kg of timothy and clover were planted in the Maritimes in 1983 which is 5 times the 149,000 kg of ryegrass planted. (Agriculture Canada, 1984)

The recent tests conducted by McCardle Bros. showed that new varieties winter exceptionally well and this. together with characteristics which make ryegrass quite desirable for forage, organic matter and to prevent soil bleaching and erosion opens new markets for the crop at home and further possibilities exist for shipping ryegrass seed to Europe. The seed grasses are, at present the smallest part of their operation and indeed make up only 17% of the rotal forages grown in the Maritimes but McCardles see them as hawing great potential for use as forage and organic matter by P. E. I. farmers and thus a marketable seed crop for their own business.

### Production Background and Design

### Purpose of the Media Fresentation

Farmers generally, are a difficult group to deal with where getting them to change their farming practices are concerned. (Rodgers and Burge, 1972) Larger corporate farms such as in Western Canada where the degree of mechanization is high, and owners tend to be highly educated in farming technology and business would be the exception, but the Maritimes and in particular, P. E. I, is dominated by small family farms. Farmers pass down their practices and techniques from generation to generation and take great pride in their methods. Change generally takes place over a long period of time.

Information channels to farmers come from word of mouth through local co-operatives; seed and fertilizer dealers and local federal and provincial Department of Agriculture field personnel.

Department of Agriculture officials and representatives of various farm supply companies indicated to the author that print material goes largely unread. Chemical companies, in fact use a large color code on farm chemical containers indicating the degree of toxicity knowing full

required for use, all other instructions will go unread.

Based on the nature of the target audience, it was felt a slide/sound production would be used to present information on the new ryegrass seed available. It could also be dubbed to the video format.

This format would be highly visual, portable, and the production short enough to maintain audience attention.

(Witt, 1981) It also offered the potential to present graphics.

### Target Audience

Viewers of the media presentation included two groups:

1) P. E. I. farmers | 2) seed cooperatives personnel.

McCardle Bros sell seed from the farm, however, much of the seed they produce is marketed through local co-operatives. It was necessary that managers and sales personnel of the cooperatives understand the uses and capabilities of ryegrass.

### Educational Objectives

The objective of the media presentation was to inform farmers of the capabilities of the new pedigreed ryegrass seed and show them that it also has the same benefits as the

traditional forage crops plus several other advantages, thus encouraging him/her to grow it.

Farmers were already familiar with the timothy clover and fescues for forage, so the program built on this knowledge and presented a good deal of the information by comparison of these to the ryegrass.

### Outline of Content and Format

The program, because of the nature of the target audience, was intended to be no longer than ten minutes in order to maintain audience attention. (Flemming and Levie, 1978) It contained 90 slides including graphics overlays in the form of print over pictures to give good visibility and a good comparative measure when contrasting forage varieties.

The production commenced by comparing and contrasting the new pedigreed rycgrass with the traditional timothy and clover. It then listed some additional benefits. The third part of the presentation focused on the recurring problems with foreign seed then examined the benefits of purchasing ryegrass seed from the new P. E. I. market. Finally it presented a brief interview with a farmer who had grown it and found it to be a good forage crop.

The program was designed to be viewed at an agricultural exhibition or at a seed sales office where the farmer has only a few moments to spend.

### A Rationale for the Media Selection and Production Design

Since print material is not commonly used by the greater portion of the target audience, word of mouth could possibly have been another method of disseminating information. There were several problems implicit with this method 1) the "talking head" type of presentation has not shown itself to be an effective means of communicating information (Flemming and Levie, 1978). 2) the same information may not be communicated each time the presentation was made 3) the target audience may have a negative disposition towards a peer lecturing them on what to grow and how to grow it (Rodgers and Burdge, 1972).

These factors together ith cost considerations and an understanding of the effectiveness of the a v media in appealing to the senses (Witt 1981) suggested the slide/sound format would be the most appropriate media.

Several considerations, the most apparent being the general scarcity of slide/sound sync. mechanisms and conversely, the increasing availability of video systems made transferring the slide/sound presentations to video seem logical.

An examination of the material to be presented indicated a visual element would be required to show growth of crops over a summer period and also to make graphic comparisons of productivity and the like. At the same time, a need was perceived for pre-packaged presentation that would ensure all vital parts were covered each time the presentation was made. It was also decided that background audio would be used to heighten viewer interest in the production and lack of the audio visual element would have made this impossible

With the slide sound format, slides were able to be shot over the past three years of the growing cycles of the ryegrasses. This was able to be done even before the production script was finalized. The last few slides that were found to be missing were then easily shot in the latter stages of the production.

The slide/sound format also added the flexibility of being able to manipulate the presentation after the pilot testing.

The production incorporated the relevant principles of instructional message design outlined by Dwyer (1978) and Flemming and Levie (1977). The story board presents the production in its entirety. (APPENDIX A)

The farmer interview at the end of the presentation was based on psychological modeling theories outlined by Bandura (1971) and Rogers (1983). This theory suggests that members of a particular population are more likely to accept a condition if they can see other accepted members of that same peer group embrace it.

### Production Requirements

vidéo tape

The following items were turnished by the author:

35 m.m. camera

close-up lenses

film (color slide)

slide trays

audio tape

audio tape recorder

microphone

School district #8 Newcastle, N. B., agreed to supply:

video camera

Beta I format V.C.R.

slide projectors

Wollensac audio sync. unit

Kodak slide dissolve unit

In addition Concordia University Avista provided:
slide duplicator
Kroy lettering machine
high contrast copy film

photo duplicating machine

Concordia audio production studio was used for audio mixing.

### CHAPTER 3

### Method

### Evaluation Method Rationale

Until recent years and indeed in many cases, to the present day, thousands of instructional products were distributed without being tested and revised prior to distribution. Studies have demonstrated that by simply trying out the materials on several learners and revising those materials on the basis of that test, a significant difference in the effectiveness of the materials can be realized. (Dick & Carey, 1985)

evaluation which is now held as the process used to obtain data for instructors' use to increase the efficiency and effectiveness of their instructional materials. Formative evaluation has its emphasis on collection of data and feedback in order to revise the instructional materials as opposed to summative evaluation which is recognized as being the final version in which people collect data to determine whether they are effective as claimed. (Romiszowski, 1981)

There are a number of models for formative evaluation.

The literature generally holds that a continuous formative evaluation strategy is desirable with the number of evaluations varying from author to author. Dick and Carey,

(1978) present a three part formative evaluation, the strategies being; one to one evaluation, small/group evaluation and field evaluation.

Another model, proposed by Saunders and Cunningham (1973) presents a four part evaluation, the stages being; predevelopmental activities, evaluation of objectives, formative interim evaluation and a formative product evaluation.

The reality of the situation, however, becomes apparent to us when we realize that all aspects of a production take time and cost money. Formative evaluation is critical in the educational context, but its limits are dictated by the constraints mentioned above.

Ardaway (1983) proposes a time-saving model for formative evaluation. It begins with a one-to-one review with subject matter experts with the early version designed to correct any errors with content. The next part combines pilot testing and field-testing into a single activity that is carried out on-site. In this model a working version is presented under actual field conditions but with groups small enough to simulate pilot testing.

Ardaway (1983) suggests this allows for the type of detailed feedback one requires in the formative evaluation process.

This paper uses a marginally more detailed formative evaluation method than proposed by Ardaway in that the one-to-one review with subject matter experts looked only at the slide/sound production. The combined pilot testing and field testing followed.

### Production Evaluation

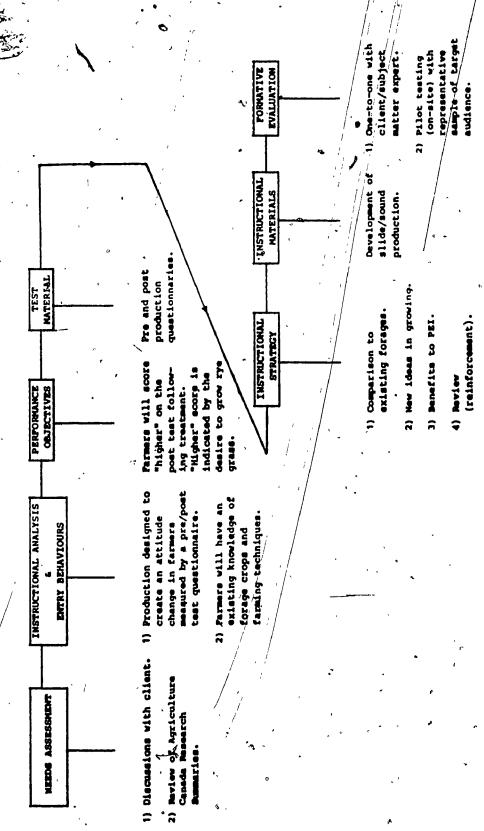
The slide/sound production itself was designed following a model presented by Dick and Carey (1978). A summary of the design process appears in figure 1.

Formative evaluation commenced with a presentation of the production to the client to insure no errors or ommissions were apparent with regard to content.

The second part of the formative evaluation involved presentation of a pilot test to three members of the target audience. Testing occurred on an individual basis and care was taken to simulate the same type of conditions under which the final phase of the formative evaluation would occur with the rest of the intended audience.

The pilot testing of the three farmers indicated few, if any, difficulties with the slide/sound production one farmer complained the sound was too loud) but numerous problems with the pre and post questionnaires were apparent. Nost of the problems related to question clarity. After the

3) Pield tenting



PIGURE 1. PRODUCTION EVALUATION DESIGN

5) Social role model.

1

first subject was pilot tested, the questionnaires were modified.

The second subject was pilot tested with the revised questionnaires and this presentation saw only minor changes. The third pilot tested subject indicated a workable presentation was ready as no major revisions were required at that point.

### Testing Procedure

A total of 31 members of the target audience were tested. Twenty-two were tested in Kinkora, P. E. I., following a meeting of the P. E. I. Potato Producers

Association. This was done by arrangement with the president of the P. E. I. Potato Producers Association who asked all members attending the meeting to stop at the adjacent room for a few minutes to see a production on ryegrass. It was thought that if only a small number of those in attendance appeared later for the presentation there would be a threat to internal validity by way of group bias (Drew, 1980). All but 2 attending the meeting came to the production.

Tables were set up in rows and after farmers had filled the seats a brief explanation of the procedure was presented. There were no questions.

The program presented to the target audience proceeded as follows:

- (1) pretest (4 minutes)
- (2) presentation of slide/sound production (10 minutes)
- (3) post test (2.5 minutes)

The pretest was distributed in such a way that each person had a test with a number on it which was between 1 and 22. Pencils were distributed. When the pretest questionnaire was complete, the production started immediately.

When the production was finished, the post test, which was numbered from copy 1 to 22, was distributed in such a way that the numbers matched—in other words, the respondent who received copy 1 of the post test and so on.

When farmers finished, hey placed their tests on the table and left the room.

Of the 22 who sat for the test, 3 did not complete the questionnaire.

It has been suggested by the P. E. I. Department of Agriculture that members of the P. E. I. Potato Producers
Association represented a good cross-section of the farming community of P. E. I. and examination of questions 1 to 5 of the pretest bore this out.

Another 9 farmers were chosen at random from a list supplied by the P. E. I. Farm Bureau. Each was visited individually and presented with the slide/sound version of the production as opposed to the video format to prevent another possible threat to internal validity by way of instrumentation.

The video format was not used in any part of this testing procedure.

### CHAPTER 4

### Results and Discussion

### Test Data Summary

### The Pretest

The pretest which contained 12 questions (Appendix B) opened by advising the respondents that it was not a government survey and that their names were not required. It was telt this would exact a more accurate and candid response from the target group.

Question I had an outline map of P. E. I. and asked farmers for a pencil mark indicating the general whereabouts of their farm. Not all subjects marked the map. A summary of the responses appears in Figure 2.

Question 2. which asked farmers to show the primary production of their farm had several respondents indicate more than one primary production area. The pretest responses summary appears in Table 1. Of all the responses, 21 were potato farmers and 17 collectively indicated beef, dairy, grain, and mixed farming. Potato farmers, then, were calculated to represent 55% of total responses while the other four categories accumulated 45% of the responses.

Twenty-five of 28 respondents were full-time farmers:

10 farmed their own land while 18 used both their own and
rented land and 24 farmed more than 200 acres.

Figure 2 Distribution of Residence Locations of Respondents

# **1**

### TABLE 1

### SUMMARY OF PRETEST RESPONSES

- (2) What is the primary production of your farm? (Check one)
  - 4 Dairy
- 21 Potato
- 4 Beef

- 6 Grain
- 3 Mixed
- 0 Other
- (3) Do you farm: 25 full time 3 part time
- (4) Is your farm:
  - 10 your own land? (or family Tand on which you do not pay rent)
  - 0 rented land
  - 18 both your own and rented land?
  - 0 other
- (5) Do you farm:
  - 1 less than 100 acres
  - 3 100 200 acres
  - 24 200 or more acres
- (6) A. Do you usually grow timothy?
  18 yes 9 no
  - B. If "yes" in part A, approximately how much? \* acres
  - C. Do you plan to grow timothy next season?
    17 yes 7 no
- (7) A. Do you usually grow clover? 22 yes 5 no

  - C. Do you plan to grow clover next season?
    19 yes 6 no

- (8) A. Do you usually grow any ryegrass?
  14 yes 14 no
  - B. If "yes" in part A, approximately how much? \* acres
  - C. Do you plan to grow any ryegrass next season? 12 yes 2 no
- (9) A. Do you grow any other grasses or forage crops?
  3 yes 21 no
  - B. If "yes" above please specify. \_
  - C. Of the crop(s) in part "B" above, how much?
     \* acres
  - D. Do you plan to grow these crop(s) next season?
    5 yes
    4 no
  - E. If "yes" in part B, approximately how much? \* acres
- (10) For what purpose do you grow timothy, clover, or ryegrass? (Check one or more),
  - 10 forage for cattle
  - 16 organic matter to build up the soil
  - 17 rotation crop for potatoes
  - 2 sileage
  - , 11 soil erosion prevention
    - 7 hay
    - 1 other (please specify) not specified
- (11) Have you ever experimented with any crops that you or other farmers you know have never grown before?

  3 yes 21 no
  - (12) If "yes" in question (11) was it/were they successful?

    1 yes 2 no

This varied cross-section, then, well represented the audience for which this production was intended--namely, dairy and beef farmers who require a substantial forage crop or potato farmers who need a good rotation crop for their potatoes, the benefits of this crop being presented in the text of the storyboard.

Questions 6 through 10 gleaned information regarding the farmers pre-disposition toward ryegrass.

Questions 11 and 12 asked if the respondents had ever experimented with crops. It was designed to help formulate an impression of how much risk the subjects were prepared to take. One would clearly get the impression that members of the population are not risk takers as 21 of 24 or roughly 88% indicated they had never experimented with crops, other than those that were traditionally grown in the area.

Question 13 asked for any other comments, none of which were written, but a few verbal comments are presented later in this paper.

### The Post Test

The first 5 questions of the post test checked for difficulties with the production itself. After pilot testing and modifications, no difficulties were encountered in the field test. A summary of the post test responses appears in Table 2.

### TABLE 2

### SUMMARY OF POST TEST RESPONSES

- (1) Did you find the slides clear? (Check one) 28 yes 0 no
- (2) Was the print on the slides clear? 28 yes 0 no
- (3) Was the sound clear?
  27. yes 0 no
- (4) The speed of the show was:
  O too fast
  28 just right
  0 too slow
- (5) As far as the information presented it was:
  0 too much 27 just right 1 not enough
- (6) Did the two farmers in the production seem like real farmers to you?

  26 yes

  2 no
- (7) Did they seem like P. E. I. farmers? 27 yes 1 no
- (8) Did the slide show give you any new information about ryegrass?
  24 yes
  4 no

Answer this question (9) only if you had already planned to grow ryegrass this coming season.

- (9) As a result of this slide show, do you think you might plan to grow more ryegrass this coming season? 9 yes
  2 no
- (10) As a result of this slide show do you think you might grow ryegrass this season?

  13 yes 3 no

in future seasons?
20 yes 2 no

(11) From the slide show can you remember some advantages of ryegrass over traditional forage crops such as timothy and clover?

28 yes 0 no

yes or

If "yes" above can you write one of them on the line below? various responses

two farmers in the production used as social role models.

26 of 28 respondents felt they seemed like real farmers. 3

farmers indicated verbally to the author that they knew one of the farmers in the production.

Question 8 asked the respondents if any new information was presented about ryegrass; i.e. information they were previously unaware of: 24 of 28 responded "yes."

Questions 9 and 10 were used to discern attitude change and questions 11 and 12 were designed to give some impression of how carefully the target audience listened to the program. Question 11 was general and 12 was specific.

11 asked respondents to write the item they had learned about ryegraes. 24 responded with a variety of answers, all of which had been presented in the production. 4 did not answer.

Question 12 asked specifically for the two "varieties" McCardle Bros. grow, which were LEMTAL and AUBADE. The dichotomy seemed to elicit conditioned responses of "annual and perennial" from 14 farmers and only 7 seemed to read or comprehend the word "varieties." 7 did not respond.

All 28 respondents answered "yes" they could remember some advantages of ryegrass over traditional forage crops,

but in the second part of the question which presented a space to write "one" of them, only 24 responded.

Five of 28 subjects responded to question 13 which asked for comments.

### Attitude Measurement Data

While many questions on the pre and post tests collected information to monitor external validity, question 8 of the pretest and questions 9 and 10 of the post test specifically sought data leading to assessment of attitude change.

Two predispositions were measured:

- 1) farmers who didn't grow ryegrass.
- 2) farmers who did grow ryegrass.

In the case of farmers who didn't grow ryegrass, a simple question on the post test asking if they would now grow ryegrass as a result of seeing the slide show was the measurement for attitude change.

In the case of farmers who presently were growing ryegrass, the question directed to them on the post test asked if they were now interested in growing more ryegrass.

Most of the farmers purchase seed in mid May to early

June, but many may purchase it much earlier depending on the

quantity of the supplies. For this contingency, the second

part of question 10 on the post test asked if farmers would

be interested in growing it in future seasons. Farmers who had already bought this year's seed but were motivated to try ryegrass had the option, then, of checking this question.

Table 3 presents a summary of the frequencies.

After 3 tests which were not completed were discarded (all from the group session) there were 11 ryegrass growers and 14 who did not grow it.

Farmers who did not grow ryegrass showed that 13 of 14 wished to grow it after the treatment by way of the slide/sound production. Table 2 shows that there were 3 "no" responses here but examination of the tests showed that two farmers who identified themselves as being growers of ryegrass on the pretest erroneously checked the wrong category of the post test. This left a 13 to 1 ratio which represents a 93% change in attitude.

For farmers who grow ryegrass, 9 indicated they would be growing this season. The 2 who did not plan to grow it were the same 2 who answered "no" in the post test, indicating they did not plan to grow more as a result of the production.

The difference in attitude toward ryegrass in the post questionnaire again proved to be significant as 9 of 11 farmers planned to grow more as a result of the production

#### TABLE 3

# FREQUENCIES OF RESPONSES BEFORE AND AFTER TREATMENT

BEFORE TREATMENT	AFTER TREATMENT
FARMERS WHO DO NOT GROW RYEGRASS	
PLAN TO GROW THIS SEASON YES 0	PLAN TO GROW IN FUTURE THIS SEASONS?  YES 13  YES 20
NO 14	NO * 1 NO 2
TOTAL 14	3
FARMERS, WHO GROW RYEGRASS	1
PLAN TO GROW THIS SEASON	PLAN TO GROW MORE THIS SEASON
NO 2	YES 9 NO 2
. TOTAL 11	
,	<b>1</b>

\* SHOWS 3 IN TABLE 2 (EXPLANATION IN RESULTS SECTION).

which represents roughly an 82% attitude change.

Twenty of 22 farmers planned to grow ryegrass in future seasons. Judgement of this part of the question would appear to be of minimal value as both previous growers and non-previous growers obviously answered the question since there was a total of 22 responses and it is not known if previous growers who checked this plan to grow "more" which was the criterion used to discern attitude change for that group.

### Discussion

When contemplating the whole concept of farming and farmers, we generally confine our impressions to that, of production—that is to say, farmers are producers. We would seldom allow ourselves to think of them as consumers.

In searching the literature and the marketplace, one becomes awar that there are very few productions of this type available to farmers and the result of this study indicates that a media production has a significant impact on the target audience.

Farmers consume huge volumes of seed, insecticides, and fertilizer, as well as billions of dollars of machinery and support materials.

The information presented in the ten minute production was relatively new and put together from a number of

sources, but the importance of it to the P. E. I. iarmers and the potential dollar value to both the producer and the buyers of this seed grass would seem to make more productions of this type quite valuable.

Considering that 24 of 28 respondents indicated that they had learned something new from the production and that, as already indicated in this paper, they don't respond well to print medium, it would appear that there is a need for good quality educational materials for this group. A response in this area could only help the small family farmers in their struggle to survive by increasing their efficiency.

The results are very encouraging for using this medium to disseminate information to farmers. One has to look at these results with a certain amount or discretion since the genial nature of the target audience would continually lend itself to the Hawthorne Effect influencing internal validity.

Since the that and sound medium has once again proven itself to be a powerful tool when used effectively, it would appear that farmers represent an untapped resource. It has occurred to the author that since the farming community moves so much more slowly than the rest of the consumer world, they might present themselves as a rather

vulnerable target with unscrupulous use of the visual media to effect adoption of new methods or materials which would not prove to be beneficial to them. The Department of Agriculture would do well to monitor such innovations carefully.

# Suggestions for Further Study

A delayed post test next spring to see how many farmers who viewed the production actually planted ryegrass would be an interesting study. If it was found to be effective in the long term, perhaps the P. E. I. Department of Agriculture and seed cooperatives would find the visual media an efficient way to spread new product information.

Because of time constraints, this production was not actually tested in a place such as an agricultural fair.

Several key elements to the presentation, such as location, type of medium, time of day, and the like could be studied in such a setting.

Other elements of this type of production could also be studied, such as the two farmers used as role models. The slide/sound format could be manipulated to remove this portion to see if there is a change in farmer acceptance of the new product.

The audiences tested consisted of both people who knew the ryegrass producers and people who did not know them. A

study of responses using two groups, one who knew the farmers and another complete group who had no previous knowledge of the McCardle Bros., might stratify or segregate peer prejudices to see if they had any effect on the A/V production acceptance.

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APPENDIX A

STORYBOARD

# Storyboard for RYEGRASS

Produced by R. Gillis

for McCardle Bros. Inc. Kinkora, P.E.I.

Copyright 1985 R. Gillis

Program/Socialists No.	
RAECEGE	
RYEGRASS !	
Notes	. ' •
Program/Sequence No 2	Narration:
	Timothy and Clover
Statistics of the state of the	0
Notes	e
•	•
*	
Program/Sequence No. 3	Narration:
	have been most commonly grown
Notes	

Program/Sequence No. 4	Nation:
	in P.E.I. for a number of years
Notes	
Program/Sequence No. 5  CERTIFIED SEED  Notes	Narration  There is, however, another forage which has received little attention and that's ryegrass
•	
Program/Sequence No. 6	Narration:
	Now pedigrees of annual and
	perennial ryegrass made them
	extremely attractive for growing
	by P.E.I. farmers.
	o
THE PRESIDENT A	
Notes	`

Program/Sequence No. 7	Nerfation.
Notes	The growing season of annual and perennial ryegrass together range from early summer to late fall.
,	
Program/Sequence No. 8	Narration:
Charles of State	Annual ryegrass planted the beginning
	of May
	•
	<del></del>
Notes	
, ,	
	1
Program/Sequence No. 9	Narration:
W. W. same or Branks	eslablishes itself quickly
THE PART HISTORY AND A SECOND	
Notes	
	_

Program/Soquence No. 10	N ·· rayon
Notes	
Program/Sequence No. 11	Narration
2.16.16.08.11.3	and has a cover like this on
	June 12.
	· · · · · · · · · · · · · · · · · · ·
	,
Notes	, , , , , , , , , , , , , , , , , , ,
J ,	
Program/Sequence No. 12	Narration.
MA AL MANDO	This is seven days later.
WAAR ZAALYI	
THE CASE OF	P
JUNE 19 19	
AL MANIANIS	
Notes	

**-**[i]

Program/Sequence No. 13	N + ration.
	And by June 26 it is producing seed tillers.
Jane 26	
Nates	. ,
•	
•	œ ·
Program/Sequence No. 14	Narration:
	When the first crop is cut in
- WHITH HE	early August
	FEX
FAFIE	
1813 83	
81818	
Notes	
,	
•	
Program/Sequence No. 1,5	Narration:
	new growth begins again.
1,111,111,111,111,111	
I W W WI	
I N. N. Y. I IV.	
AN AN AN	
Notes	· 6

Program/Sequence No. 16	N ration
	This as the second growth on
ALL MANAGEMENT AND	August 28th
AUGUST 26	· ·
Ņotes	
<b>.</b>	
,	. 6
Program/Sequence No. 17	Narration
	Perennial ryegrass can be seeded
A market	in late summer or early fall.
	**\
	1
	7
Notes	* .
,	
,	
Program/Sequence No. 18	Narration.
	1
TAN SER	it establishes itself quickly
	0
A P. France	
Notes	· ·
}	

Program/Sequence No. 19	N ration
	and needs to achieve
West The AMAGES	
344	
90	
	3
Notes	``
NOTES	
ds	9
1	
Program/Sequence No 20	Narration
<b>.</b>	some vigour before snow falls.
Le se la	
24-	
7	-
~~	
- 1	·
Notes	:
, î î î	
•	
Program/Sequence No. 21	Narration.
Program/Seconds No. 21	* *
Notes	

Program/Sequence No 22	N - ration
PARE MARKANI	The warm spring sun brings
	it to life very quickly.
Comment of the little	,
Market State of the State of th	
VANAGARA	*
- CONTRACTOR	
Soften and	
Notes	
	•
Program/Sequence No 23	Narration
ο .	, , ,
· A Act on Long	
Marie William	,
11/1/	
	,
Notes	
	•
. 9	
Program/Sequence No. 24	Narration.
	And maderate this are the bu
	And produces this growth by
AKE AKE	May 8th.
The same of the sa	a
MAY &	•
11000	in the second
•	·
Notes	
••	
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4	

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Program/Sequence No. 25	ni ration
MAN STAN	On June 25th Seed tillers are ripening.
Notes	,
1	9
	0
Program/Sequence No 26	Narration
	After cutting
hat have the state of the state	•
THE PARTY OF THE P	
The second second second	
AND AND A	~
1	0
Notes	·
	•
Program/Sequence No. 27	Narration:
	•
	and an application of fertilizer.
No. of the last of	
<b>Z</b>     3   <b>E</b>     7	•
Notes (	

Program/Sequence No 28	Ninration
4444	The second crop looks like this
HAME WILL OF LITTLE	by August 28th
11/1///////////////////////////////////	
1120 4141 11 11/16	·
	/
Chilling All	
Notes	
•	
Program/Sequence No. 29	Narration
1	And is producing seed tillers
THE STATE OF THE S	by September 11th.
<b>一种工作工作</b>	
四部五五五五	·
II SEPTEMBER 11	
4	
Notes	
Program/Sequence No. 30	Narration '
	Harvesting can take place again
	in October.
Marc and	
	* •
المنافقة الم	
المراجع المعالية	
Notes	

Program/Sequence No. 31 N . ration So annual and perennial ryegrasses are very productive and have an extremely flong growing season. Program/Sequence No. 32 Narration. Added to this is the vigour of new strains of ryegrass. Narration: Program/Sequence No. 33 For grazing they can be used from mid May to mid November with remarkable recovery.

Note

Program/Sequence No. 34	Wateriou.
	Ryegrass is a good rotation crop  for potatoes as
Notes	
	\$
c	,
Annual Mariana da Mariana	Narration ~
Program/Sequence No. 35	varration
	the most common potato pathogen.
	a small worm-like creature
	,
355 (1) (5)	
Nows	•
,	
•	
	,
Program/Sequence No. 36	Narration.
Program Sequence No. 100	
	was not found in ryegrass sampled
	over 3 years by the P.E.I. dept. of
	A / 3
	Agriculture ,
	,
のだころうの	
	1
Notes	
,	

Programuaequence No. 37	,
60 (S) 50 (A)2	In addition, potatoes have
REAL STANK	common pathogens such as Verticellum
M & S IN	
	· •
	3,
Notes	
•	
, <u>-</u>	
Program/Sequence No. 38	Narration:
100 years	and Rhizectonia with other forages
<b>从外</b>	but don't with ryegrass. Ryegrass
	can be very important then, in
	breaking the potatoe disease cycle.
The state of the s	breaking the potatoe disease tycle.
INTERPLITION OF SISERGE LIGHT	
	I
Notes	
D	,
• •	**************************************
, '	
Program/Sequence No. 39	Narration:
PUR SO	Perennial ryegrasses are excellent
Version -	for sileage.
	,
1 3 - m	
Frank Gay	3
Notes	,
region ,	

Program/Sequence No. 40	Niration
	Tests have shown them to be superior to Timothy in
Notes	,
,	
<u></u>	
Program/Sequence No 41	Narration  intake, digestibility and yield  per hectare of digestible dry matter.
٥ .	
	No
Program/Sequence No. 42	Narration.
43.	With early crops such as peas
	and early potatoes
	1
	<u> </u>
5	
2.	
Notes	

Program/Sequence No. 43	N-reation.
	Because ryegrass establishes
	itself very quickly, it is
The Party of the P	
Notes	,
•	
Program/Sequence No. 44	Narration:
	excellent protection against erosion
1	As you see here, erosion only occured
	where ryegrass wasn't seeded.
	where Typy ass wash to seeded.
Notes	
-	•
Program/Sequence No. 45	Narration:
Miles Man	It also protects against bleaching
	by the sun.

Program/Sequence No. 46	Niration:
THE WALKER	P.E.I. soils are naturally light and
WW SONO U	sandy and therefore needs a good deal
	of organic matter.
Onto	
	·
Notes	
	-
•	<b>*</b>
Program/Sequence No.: 47	Narration:
4	Clover, for instance, has a single
1.1.1	heavy top root but ryegrass has
42.0	a filierous bulky foot mass
CLODER RYEGERS	
The state of the s	,
THE WAR	•
Notes	
4	**************************************
	•
Program/Sequence No. 48	Narration:
	which makes it excellent organic
	matter for the soil.
William Str	
Enceutil overlie mire	
Exacular arenale with	
	3

Program/Sequence No. 49	MLatiou
ANAT	Perennial ryegrass may be underseeded with cereals.
Notes	
•	
Program/Sequence No. 50	Narration
11 100 0 - 61	It generally remains about
	15-20 cm high without competing
	with the cereal.
BOWN MARKSCEDIK WINTER	
Soon Mulet 3 color manage	
Notes	
Program/Sequence No. 51	Narration.
	Once the cereal is harvested
Hes. Mar	•
BATEL YELL	
In July	
W W	
Notes	

N=ration: the grass produces quickly and is soon ready for grazing or cutting again. Narration: Annual ryegrass and legume rixtures have been found to produce satisfactory yields of good quality with very little fertilizer which will help keep production costs. Notes Narration: Perennial ryegrass has been found to winter very well on P.E.I. except in the case of extreme winters and may be grazed for 2 successive years.

1

Notes

Program/Sequence No. 55	N-ration .
A Comment	Until recently, ryegrass seed has
	only been available from foreign
	markets.
	· ·
Notes	
•	
Pragram/Sequence Na. 56	Narration
10 mm	It has traditionally shown poor
THE PERSON NAMED IN	germination
Notes	
3	
L.	
Program/Sequence No. 57	Narration:
	and is often a mixture of annual
T AS	and pecennial seed which causes
	problems in

٠,

Program/Sequence No. 58	N-ration -
	competition with underseeding.
Notes	
Program/Sequence No. 59	Narration
TONG GRAMINE SESSON!	In summary, then, ryegrass in
	comparison to traditional forages
,	offers a longer growing season.
	1
· ·	
Notes '	
•	· · · · · · · · · · · · · · · · · · ·
•	
Program/Sequence No. 60	Narration.
LONE GROWING SEASON	. Rapid recovery from grazing.
RADID GROWNS RECOVERY	
	·
Norm	•

Program/Sequence No 61	N ·· ration
LONG CHOWING SCASON	an interruption of the potato
INLESSEDATION OF DELVOR CHIN	disease cycle.
٠ .	(
	,
Notes	
•	
Program/Sequence No 62	Narration
LOWE GROWNE SEASON " RADIO SCOUTH RECOURY	Excellent sileage
MICROLATION OF ALSENSE CHOICE	
BRECLICHT SIGENCE	
٠.	
	·
Yours	
,	3
•	
rogram/Sequence No. 63	Narration:
RADIO JOHNING SEASON	good soil erosion protection.
INTERESTICA OF BASSE OL	
Greens suches	
SOS PRODION PROTECTION	
n	

.

Program/Sequence No. 64	Negation
TONE CHOMING SCOREN	and an excellent organic matter.
RAPIN GROWTH RECOVERY	
CACCALENT SILFACE	
See BROWTH RECOVERY	·.
EXCEMENT DESANIE MATER	•
	·
Notes	,
, g	,
er ,	
Program/Sequence No 6:	Narration
	In addition to this rvegrass underseeds
GOOD UNDER SEED. NE	will with cereals;
Notes	,,
110.05	
<b>→</b> ;	·
Program/Sequence No. 66	Narration
GOOD MADER SOCOINE	provides satisfactory yields with a
SATISPACTORY WAS S.	minimum of fertilizer.
1	
	1

Prey ant/Stavence No. 67	N ·· ration
	winters well on P.E.I. and may be  grazed for 2 years.
Notes	
•	
Program/Sequence No. 2	Narration.
	Mr. Robert Hammel has grown ryegrass
	for 4 years and has this to say about
	it "1 know one thing its great for
	erosion enh?
	<u> </u>
	, .
Marra	•
,	
	1
•	
Pregram/Sequence No. 69	Narration:
	cause its got a great root system
١	
	on itits good and thick,,,and
	the cows milk
Meros	

Program/Sequence No. 70 on it. .its high in protein... "e cows you know. .I know there's some cows up 25 milking on ryegrass. Program/Sequence No Narration We strip grazé, An head of cattle on the 25 acres there and if ah.... we could easily um...we could easily ah...have twice the number of head on it...I know we could have 150 head on that ryegrass strip grazing...you wouldn't believe it...." Notes \_ Program/Sequence No. 72 Narration: Mr Ernie Mulligan: "well...ah...before we were running a 3 year crop rotation ...we were running potatoes, grain and ah clover or timothy and cut and plow it down in the fall of the year

Program/Sequence Ne. 73	N "Fation.
	now, with the ryegrassshortened
N. FI	up our rotation to a two year potato
	rotation instead of a 3 year
and the	
ALL MAN	
Notes	
Program/Sequence No. 74	Narration.
	Sterille in the union amount of a
	because we're using ryegrass plus the fact that we're short a land
AEIZ.	in this part of the country."
	The country.
Notes	- J
	•
Program/Sequence No. 75	Narrapon:
	McCardle Bros. of Kinkara P.E.I.
100	
一世の一	
	•
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Notes	· ,

Program/Sequence No. 76	↑ ration
At a	as well as producing seed grains
<b>* * * * * * * * * *</b>	and seed potatoes,
A	
Notes	
Program Socuence to	earration
Notes	
Program/Sequence No. 78	Narration
<b>以外交</b> 公子	
THE PROPERTY OF THE PROPERTY O	<i>y</i> 5
TOTA INCITY	

Notes

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		v	, , , , , , , , , , , , , , , , , , ,	
`		•		. •
Program/Sequence No 79	)	N ration		
		produce ryegrass certi	fied seed ^	
- T		of both the annual and	perennial - , .	•
		varieties.		
	A E		/	'
	ノミー	. ,	•	'
			,	,
Notes			,	,
			,	• - 0
•		4		****
- Program/Gequence No. (40)		Narration	,	
		It is high quality seed	d with	•
And William	Callin	good germination;		-
5 rh, h		,	ζ,	, par , m
11/10/ 6			· · · · · · · · · · · · · · · · · · ·	- ,
1 1/2 2	KY UI		·	- \
				<b>-</b> ,
Notes				-
•				•
	و المحادث		,	
Program/Sequence No. 81		Narration:		
		offers less chance of i	importing -	_
3		disease to the island;	,	<b>-</b> .
5				
			_	-
3		` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		<b>-</b>
			\	-
Name of the last o		,		-
Notes	,			
	•			,
	•	•		•
	V			
,	-	,		

Program/Sequence No. 82,	Nicition
	is a better price than foreign seed
A CONTRACTOR OF THE PARTY OF TH	
	,
Notes	
Program/Sequence No. 167.	fvarration
Violent and Control of Control	<b>a</b>
	and keeps money in the P.E.I.
	economy.
	A .
	4
Notes	,
•	
,	`
Program/Sequence No. 84	Narration .
A	McCardle Bros. ryegrass seed
	may be purchased from McCardle
2000年	Bros. in Kinkora.
	1
Marie	· · · · · · · · · · · · · · · · · · ·
/ Notes	

,	√ `
Program/Sequence No. 85	Nurration.
	or ask for it at your local seed
	dealer,
100.00	000(01)
COTOP	
1 1 1 1 1 1 1 1	
	مس
Notes	
	•
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Program/Sequence No 196	Narration
	1
60000 v	
Pin Al Prior CAD POR	
W. Mary	
(3) M. CARDLE BEOS.	
1000	γ.
Kinklen, Re. I.	<u>*</u>
Change of the change of the	,
~	,
Nates	
•	
	٠
Program/Sequence No. 87	Narration ·
Program Sequence no. 67	traination .
WITH THANKS TO	
third howell	0
Segent dammer	
CRUIS MULLICON	•
THE PROBLEM	
TO WINGTON TORNISTON	. (
TR. HAROLD TLATT	
D. S. Kundin Str.	
Notes	· ·

Program/Soquence No 88	N+ ration
NARRATOR	
NGIL SHEE	
,	
	<u> </u>
Notes	
	<del></del>
Program/Sequence No. 10 <sup>3</sup>	Narration "
ANDIO MIX.	
JOHANNE ROY	
Notes	2
, , ,	
,	
Program/Sequence No. 90	Narration.
	7
PHOTO GRADA V	
FRED MECARDIE	
BOY GILLIS	,
	`
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Notes	

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Program/Sequence No. 91	N ·· ration.
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PRODACER	
17. GILLIS	
11. 6.4.	
,	
Nates	
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•	
Program/Sequence No. 92	Narration.
PRODUCED AT	
`	
CONCORDIA UNIUFOSITY	•
MONTRÉAL, CANNOR	,
1115	
<u> </u>	
	,
Nates	
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•	1
Program/Sequence No.	Narration:
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MOTE

## APPENDIX B

## Pretest

This information is not a government survey. It is designed to gather information about the farmers that are being sampled as a group.

Your <u>name is not required</u> so please answer as accurately as you can.

(1) On the outline map below, please make a pencil mark indicating the general whereabouts of your farm.



(2)	What is the (Check one)	•	production	or you	r farm?	
۴	Dairy	•	, <b>.</b>			
	Beef	•		· ,		
<b>'</b>	Potato		,			
,	Grain					
	Nixed				•	
	Other	(please	specify)		,	

	•	
, ·		•
		•
<b>.</b>		
•		. >
•	•	70 /
(3) Do you farm:		^
full time?		
part time?	,	
(4) Is your farm:		
your own land? (or family	land on which w	Du do
not pay rent)	iand on which yo	ou do
rented land?		
both your own and rented la	nd?	-
other (please specify)	,	*
(5) Do you farm:		•
less than 100 acres?		·
100 - 200 acres?		
<u></u> €	•	•
(6) A. Do you usually grow timothy	?	•
yes _	¢	
no no		
B. If "yes" in part A, approxi	mately how much?	
acres		
C. Do you plan to grow timothy	next season?	
yes		
no		
D. If "yes" in part C, approxi	mately how much?	?
acres		,

(7)	A.	Do you usually grow clover?
		yes
		no
	В.	If "yes" in part A, approximately how much?
	,	acres
	c.	Do you plan to grow clover next season?
•		yes
		no
	D.	If "yes" in part C, approximately how much?
		acres
(8)	A.	Do you usually arow any ryegrass?
		yes
		no
	В.	If "yes" in part A, approximately how much:
	•**	acres
	Ç.	Do you plan to grow any ryegrass next season?
	•	yes
•	•	no
	Ď.	If "yes" in part C, approximately how much?
		acres

	•	
•	,	
#		72
	`	
(9)	A.	Do you grow any other grasses or forage crops?
v		yes
	,	no
	<b>.</b>	
•	В.	If yes" above, please specify.
	С.	Of the crop(s) in part "B" above, how much?
-	•	acres
	D.	Do_you plan to grow these crop(s) next season?
	۵.	•
,		yes
		na
•	ja	it when in beit g! abboundately you much;
		ARTAG
(10)		what purpose do you grow timothy, clover, or grass? (Check one or more)
		forage for cattle
	/	organic matter to build up the soil
C	<i></i>	rotation crop for potatoes
.:		sileage
		soil erosiion prevention
		hay
		, A
-	n	other (please specify)
o	•	
	•	
(11)		e you ever experimented with any crops that you or er farmers you know have never grown before?
å 2		
,	<del></del>	yes

•

. . .

(12)	If "	'yes''	in	question	(11)	Was	it/were	they successful?
		yes		•	•			
		no			, ,	,		

(13) If you have any other comments to make, please feel free to do so at the bottom of this page or on the back.

'had

## APPENDIX C

## Post Test

	The firs	t few que	stions	are de	signed 1	:0 <b>5ee</b>	if you
any	difficult	y with th	e slide	show.	•		£ .
(1)	Did you	find the	slides	clear?	(Chec)	c one)	• .
4	yes	l .	•	,		-	•
4	no .	•	٠.	4.	. •		
(2)	Vas the	ao fairq	the sli	des cl	ear?		
	yes			•	•		
•	no	,			•	a	, *
(3),	Vas the	sound cle	ear?	, ~	·•		,
	yes			, ,	, , , , , , , , , , , , , , , , , , ,		
2(4)	The speed	d of the	вром ма	<b>.</b>	,	*	•
	too :	•	*				•
, * c	too :	510W .	,	. :	•	, .	•
1 1	•		•	\ .		• .	
(5)	As far ag	the inf	ormatio	n pres	ented it	WAS:	· · ·
` `	too I	encp			•	, 2	, ,
, (	_ just	right		•	•	-	

(0)	Did the two farmer real farmers to yo	rs in the production seem like ou?
	yes	
,	no	
(7)	Did they seem like	e P. E. I. farmers?
	yes	
•	no *	
(8)	Did the slide sho about gyegrass?	w give you any new information
•	yes	· · · · · · · · · · · · · · · · · · ·
•	no .	
		0)
	aned to grow ryegra  As a result of th	9) only if you had already season. is slide show, do you think you wore ryegrass this coming
plar	As a result of the might plan to groseason?	iss this coming season. is slide show, do you think you
plar	As a result of the might plan to gro	iss this coming season.  is slide show, do you think you more ryegrass this coming
plar (9)	As a result of the might plan to groseason?  yes no	is slide show, do you think you we more ryegrass this coming
plar (9)	As a result of the might plan to groseason?  yes no	is slide show, do you think you we more ryegrass this coming
plar (9)	As a result of the might plan to grosseason?  yes  no  As a result of the might grow ryegra  yes  no  no  yes  no  no  yes  no	is slide show, do you think you we more ryegrass this coming this coming this slide show do you think you as this season?
plar (9)	As a result of the might plan to groseason?  yes  no  As a result of the might grow ryegra	is slide show, do you think you we more ryegrass this coming this coming this slide show do you think you as this season?

,	yes
	no
	•
	If "ves" above can you write one of them on the
	If "yes" above can you write one of them on the line below?
`. }	

(13) If you have any comments to make please feel free to do so on the bottom of this page or on the back.

Thank you for your time and effort in completing this questionnaire.