

FILE 95/864

COPY



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FACSIMILE TRANSMISSION SHEET

To: [REDACTED]
Of: Funding and Disclosure
AEC

From: [REDACTED]
Phone: [REDACTED]

Fax: [REDACTED]

Number of Pages 2

Date: 29/10/96 04:24 PM

Subject: Confirmation of Interpretation

Dear [REDACTED]

Your interpretation of the table that I supplied to you in September is correct. Just to reiterate this:

- the probabilities in the table are approximations based on a sample of twenty. These approximation are accurate for any large populations (say greater than 400). Hence for populations of 500 or 750 the probabilities given in the table would not vary to any significant degree.
- if a sample of twenty is selected and **more than one** denial occurs, then the probability of this occurring is small (1.69%). From this we could infer that the percentage of people in the population that wish to join the party is less than 99%.

The probability that the sample will contain either none or one denial is 98.31%. If either of these cases occur, then we have no significant evidence that there are less than 99% percent of people in the population who wish to join the party. So, the Commission should accept that the party has the required membership.

If you need any further clarification, please call me.

Yours sincerely,

[REDACTED]

Senior Research Officer
Statistical Support Section

29 October 1996

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FAX Message

Message to:

[REDACTED]

Statistical Support Section
ABS

Phone: [REDACTED]
Fax: [REDACTED]

Message from:

[REDACTED]

Funding and Disclosure
AEC

Phone: [REDACTED]
Fax: [REDACTED]

Date sent: 29 October, 1996

Our
reference:

Priority:
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[REDACTED]

The following letter to you is just seeking confirmation that I understand correctly how to use the probability table you supplied. I'm also dropping a courtesy copy to Mr McLennan.

Regards

[REDACTED]

29 October, 1996



In reply please quote 95/864

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[REDACTED]
Senior Research Officer
Statistical Support Section
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Dear [REDACTED]

I refer to the probability table you provided and our subsequent telephone conversation in connection with sample checking the Australian Electoral Commission proposes undertaking of claimed party membership. Can you please confirm for me whether the following are correct interpretations of that table:

- the probabilities expressed in your table based on a sample of 20 will not vary to any significant degree irrespective of whether the population is 500 or 750 and therefore are indicative for varying population sizes; and
- the probabilities are such that the Commission should accept that a party has the required membership where the sample resulted in no denial or only one denial but not in cases where the sample resulted in two or more denials.

Thanks again for your help in this matter.

Yours sincerely

[REDACTED]
[REDACTED]
Director
Funding and Disclosure

28 October 1996

c.c. Mr W McLennan
Australian Statistician