SOCIAL RESEARCH TODAY

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Surveys in Social Research

Fourth edition

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I The nature of surveys

Surveys are a method of social research which, like any other method, has its advocates and critics. The primary aim of this book is to provide guidance on how to do good surveys rather than to provide a detailed defence of surveys. However, it is important to realise that many criticisms of surveys are based on misunderstandings of what surveys can be.

The outline of how to do good surveys takes into account some of these criticisms and shows that there are ways of dealing with them. The solution to criticisms of a method need not be to abandon the method but first to see if it can be improved. The focus of this book then is to show what can be achieved with surveys and how to do it.

In this chapter I shall clarify what survey research is and then briefly outline some of the common criticisms. In my definition of survey research and the following discussion I rely partly on an excellent book by Catherine Marsh (1982) titled *The Survey Method:* the contribution of surveys to sociological explanation.

What is a survey?

Marsh insists that a survey is not synonymous with a particular technique of collecting information: questionnaires are widely used but other techniques such as structured and in-depth interviews, observation, content analysis and so forth are also appropriate. The distinguishing features of surveys are the form of data collection and the method of analysis.

Form of data collection

Surveys are characterised by a structured or systematic set of data which I will call a variable by case data matrix. All it means is that we collect information about the same variables or characteristics from at least two (normally far more) cases and end up with a data matrix (see Table 1.1).

Table 1.1 A variable by case matrix

Cases

Variables

	Person 1	Person 2	Person 3	Person 4	Person 5
Sex	male	male	female	male	female
Age	36 yrs	19 yrs	30 yrs	55 yrs	42 yrs
Political orientation	progressive	moderate	progressive	traditionalist	traditionalist
Class	working	lower middle	upper working	upper middle	middle

cases, a list of countries would be across the top of the table instead

section on units of analysis in Chapter 3). If countries were the

or virtually anything so long as we collect attributes of that case (see

not be so. A case (called a unit of analysis) could be a country, a year

In the example in Table 1.1 each case was a person but this need

each variable. Because questionnaires are the easiest way of ensuring

this structured data matrix they are the most common technique used

in survey research. But there is no necessary connection.

not be highly structured so long as we obtain each case's attribute on

able. Put together we end up with a structured or 'rectangular' set of

In other words, for each case we obtain its attribute on each vari-

data. However, the technique by which we generate the data need

Methods of analysis

data which is the second distinguishing feature of surveys.

which is based on comparison of cases. It is this method of analysing

The variable by case matrix is fundamental for survey analysis

across the top with attributes relevant to years down the side (e.g. were the cases, years (e.g. 1950, 1960, 1970, 1980) would be listed density, unemployment rate) would be listed down the side. If years of people, and attributes of countries (e.g. population size, area,

inflation rate, divorce rate).

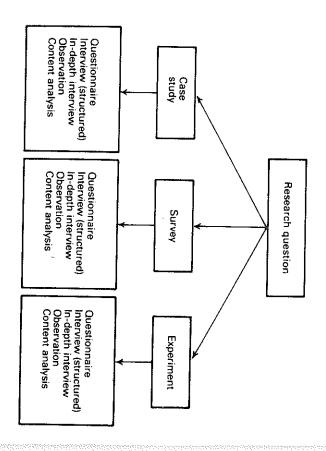
vote, we need to know how each person in that group intends to vote set of cases. Thus if we want to describe how a group of people will One function of survey analysis is to describe the characteristics of a A variable by case matrix provides this information.

other characteristics which are systematically linked with it. As such will see if the progressives are systematically different from the attribution of causal links (simply to demonstrate that two things go comparison of the various characteristics of cases. It does not end it aims to draw causal inferences (e.g. class affects vote) by a carefu by looking at variation in that variable across cases, and looking for seeks an understanding of what causes some phenomenon (e.g. vote) traditionalists in some additional way. For example, in Table 1.1 be progressives and others will be traditionalists), the survey analyst The survey analyst tries to locate causes by comparing cases. By researchers need to be very careful, however, to avoid mistaken there. The next step is to ask why class affects vote. Survey the traditionalists are middle class. In other words, survey research linked to variations in class: the progressives are working class and there is variation across cases in how they vote. This is systematically looking at how cases vary on some characteristic (e.g. some cases wil But survey researchers are also interested in causes of phenomena

The nature of surveys

and compare them with a group of sufferers who did not have the variation—that is, find a group of sufferers who did have the drug drug. The problem for survey researchers is that they cannot be sure not create the variation but would find 'naturally occurring' been created by the experimenter. A survey approach would recovery rates of the drug and non-drug groups would be compared. take a group of sufferers and divide them into two similar groups. Here the variation between the two groups (i.e. drug/non-drug) has The drug would be administered to only one group and then the An experimenter wanting to see if a drug cures a disease would from an experimenter. Some medical research serves as an example. variation between the attributes of people is created by intervention by case matrix form, but is fundamentally different in that the similar to the survey method in that data are collected in the variable quite different strategies for understanding the behaviour and attitudes of that case have to be employed. The experimental method is tion about one case. Since there are no other cases for comparison methods. For example, the case study method involves data collec-This style of research and analysis can be contrasted with other

Figure 1.1 A range of methods of research and techniques of data collection



that the two groups are similar in other respects, whereas the experimenter begins with two similar groups and the only difference different approaches to obtaining variation between groups lead to any difference in recovery rates must be due to the drug. Apart from the potential ethical problems of experimental research, these (in theory) is that only one group receives the treatment. Therefore

workers work under different conditions to see if this affects their strike or a particular factory and an experiment where groups of attitudes of management and workers, a case study of a particular example, a study of causes of strikes could involve a survey of quite different methods of analysis. strike frequency. In any particular study a range of methods can be used. For

case, interview them, give them a questionnaire and so on. methods can vary considerably. In a survey we could observe each The techniques by which data are collected using any of these

a variety of research methods (see Figure 1.1). ganising and analysing data. The relevant data can be collected by a variety of techniques and in many studies it may be appropriate to use In summary, survey research is one method of collecting, or-

Criticisms of surveys

simply be mentioned here, but will be taken up again in the final categories: philosophical, technique based and political. These will The most common criticisms of surveys can be classified into three

Philosophically based criticisms

- Surveys cannot adequately establish causal connections between conservative than younger people we cannot be certain that survey analysis can overcome this type of objection. growing older causes conservatism. We shall see to what extent variables. For example, even though older people are more
- Surveys are incapable of getting at the meaningful aspects of do. We shall see that survey research can go a long way towards who make choices, have memories, wills, goals and values which social action. Because actions are the actions of conscious people arriving at such 'meaningful' explanations. developing and evaluating why people behave and think as they motivate behaviour, research must take these into account when
- Surveys just look at particular aspects of people's beliefs and

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research need not lead to contextless pieces of information and the consequent misunderstanding of that information. (The contacts at church and so on. We shall see that with care survey searching for a religious faith, or they cannot avoid going may mean they are highly religious, but it could mean they are is needed about context to avoid misunderstanding.) problem will always remain of how much and which information because of social pressure, or they go because of important behaviour. For example, if a person goes to church regularly it actions without looking at the context in which they occur. Taken out of context it is easy to misunderstand the meaning of

- study of factories.) posted questionnaires and that Weber also used a survey in his shall see to what extent this accusation of determinism is a external forces and neglect the role of human consciousness, Surveys seem to assume that human action is determined by is worth noting that Marx attempted a survey involving 25 000 have been used more by positivist sociologists than by others. (It necessary part of surveys or whether it is simply because surveys goals, intentions and values as important sources of action. We
- model of science centred around hypothesis testing and signi-Survey research is equated with a sterile, ritualistic and rigid wrong this view is. ficance tests, which involves no imagination or creative thinking. By showing how to do survey research we shall see just how
- Φ vey research and analysis. of theoretical value. We shall see throughout this book that merely collects a mass of facts and statistics and provides nothing Survey research is basically empiricist (C.W. Mills). That is, it theory and interpretation is fundamental to well-conceived sur-
- appropriate and other methods should be used when they are of social research. Surveys should only be used where they are power. No claim is made in this book that surveys are the method ty in actually measuring the extent to which Rupert Murdoch has example, a survey researcher would probably have great difficul-Some things are not measurable—especially by surveys. For more appropriate.

Technique-based criticisms

Surveys are too restricted because they rely on highly structured used in surveys. based on too narrow an understanding of what techniques can be questionnaires which are necessarily limited. This criticism is

> Surveys are too statistical and reduce interesting questions to emphasised in this book. Statistics should be the servant rather statistical analyses is important and the same logic is widely used totally incomprehensible numbers. While many studies are un-It is this logic and the role of creative thinking that will be in both statistical analyses and much more qualitative analyses. necessarily statistical and sterile, the logic involved in these than the master of the survey analyst.

'Political' criticisms

10 Survey research is intrinsically manipulative and is described by reality but is an ideological reflection whose acceptance by 'the can lead to an abuse of power. Second, survey research leads to to be manipulative in two ways. First, the knowledge it provides discussion of this criticism of surveys.) public' furthers particular interests. (See Marsh 1982 for a full ideological manipulation. It does not produce knowledge about about the social world gives power to those in control and this the Frankfurt Marxists as 'scientistic' and 'technistic'. It is seen

Practice vs ideal types

accounts of how they did their research (Hammond, 1964; Bell and gap between textbook accounts of how research should be done and does not conform to the textbook models. published in which some researchers 'come clean' and provide how it actually is done. A number of valuable books have now been Newby, 1977; Bell and Encel, 1978). Like my own experience, theirs A basic difficulty when trying to describe how to do research is the

and personality of the researcher, the 'politics of the research', the can mislead. When you actually do some research you will find that not reflect other people's. describe my experiences but like an ideal-typical model they would actually takes will be peculiar to that piece of research: it is affected you are not doing what you 'should'. So should the book describe the research is outlined, is not to describe what researchers do. As such it types of people or situation being studied, funding and so on. I could by the research topic, the technique of data collection, the experience reality? Perhaps. But which one? The course that a piece of research 'ideal-typical' model of survey research, in which each step of What ought to be done in a book like this? To describe an

I have decided to do a bit of both. I will outline the key steps which

Further reading

Catherine Marsh's book *The Survey Method* (1982) is the best description of the survey method available. Her outline and evaluation of the most substantial criticisms of surveys is direct, clear and stimulating. Denzin's *The Research Art* (1978) provides a critique of survey research from a symbolic interactionist perspective as does Blumer's paper 'Sociological analysis and the variable' (1956). Chapter 3 of the *Sociological Imagination* (1959) by C.W. Mills on abstracted empiricism is a well known attack on certain forms of survey research.

2 Theory and social research

We can conduct research and show that in the last 100 years social mobility has increased, religion declined, the structure of the family changed and values have been transformed. These are important changes to describe but why have they occurred? We might show which types of people are most mobile or are least religious, and we can document the character of modern families and describe who holds what values. But why are some mobile while others are not, why are some less religious than others? We know that a large number of people live on or below the poverty line. But why?

Social researchers can try to answer two fundamental questions about society. What is going on (descriptive research) and why is it going on (explanatory research). I believe that the central role of social research is to try to answer both the 'why' and the 'what' questions. The aim is both to describe and understand society.

Sociological theories are attempts to answer these sorts of 'why' questions. They are attempts to explain, and as such the role of sociology is to theorise: it is not just social arithmetic.

The interaction of theory and research

Observations require explanation but equally explanations need to be tested against the facts. It is not enough simply to collect facts. Nor is it sufficient simply to develop explanations without testing them against facts. Fundamentally sociological research involves a constant interplay between observation and explanation, collection of further facts to test the explanation, a refinement of the explanation and so on.

The development of good explanations involves two related processes: theory construction and theory testing. These two processes are not alternative ways of arriving at good theories but represent two stages with different starting points (see Figure 2.1).