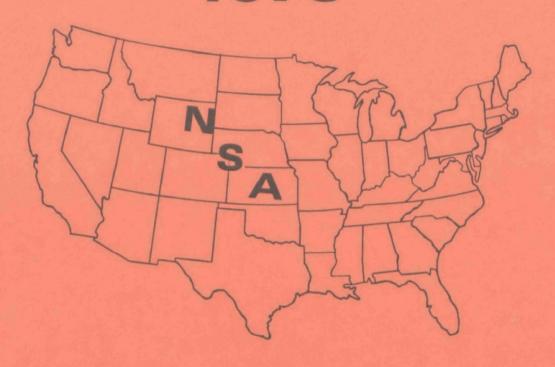
# National Statistical Assessment of Rural Water Conditions

## 1978



U.S. ENVIRONMENTAL PROTECTION AGENCY

## A NATIONAL SURVEY OF DRINKING WATER CONDITIONS IN RURAL AMERICA

### SECTION CS COVER SHEET

	OOVER SHEET	
CS-1	Interview Number	1 4
CS-2	Deck Number	5 6
CS-3	Address or description	<del></del>
	Place	
CS-4	Latitude	7 8 (Degrees)
		9 10 (Minutes)
		11 12 (Seconds)
CS-5	Longitude	13 (Degrees)
		16 17 (Minutes)
		18 19 (Seconds)
CS-6	Number of dwelling units in the building containing the sampled household. (If there are more than 98, enter "99.")	20 21
	INTERVIEWER INSTRUCTION: If you find the number of dwellin than the number reported in the listing, contact your supercontinuing.	
CS-7	Is this a mobile home?	0 No 1 Yes

SECTION			
CS-8	Interviewer Number	23 24	
	Interviewer Name	<del></del>	·
CS-9	Number of minutes required to complete Section A. (Code "999" in columns 25 - 27 if Section was only partially completed. Code "000" if there was no interview for Section A.)	25	27
CS-10	Date Section A completed	28 29	Month
		30 31	Day
SECTION	N B		
CS-11	Interviewer Number	32 33	
	Interviewer Name		
CS-12	Number of minutes required to complete Section B. (Code "999" in columns 34 -36 if Section was only partially completed. Code "000" if there was no interview for Section B.)	34	36
CS-13	Date Section B completed	37 38	Month
		39 40	Day
SECTION	i c		
CS-14	Interviewer Number	41 42	
	Interviewer Name		
CS-15	Number of minutes required to complete Section C. (Code "999" in columns 43 - 45 if Section was only partially completed. Code "000" if there was no interview for Section B.)	43	45
CS-16	Date Section C completed	46 47	Month
		48 49	Day

SE	CTION	D				
CS	-17	Int	erviewer Number	50	51	
		İnt	erviewer Name			
cs		(Co	ber of minutes required to complete Section D. de "999" in columns 52 - 54 if Section was y partially completed. Code "000" if there no interview for Section D.)	52		54
CS	-19	Dat	e Section D completed	55	56	Month.
	_			57	58	Day

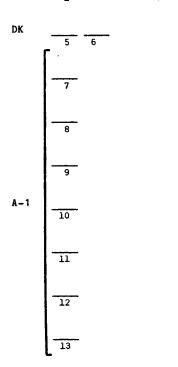
CS-20	Interviewer Number	59 60
	Interviewer Name	
CS-21	Section E completed, partially completed, or not used	0 Not used 1 Completed 61 9 Partially compl
CS-22	Date Section E completed or partially completed (Code "0000" in columns 62 - 65 if Section E was not used.)	62 63 Month
		64 65 Day

#### SECTION A

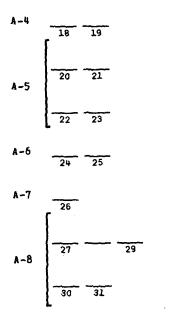
#### HOUSEHOLD WATER SUPPLIES

lime	of Starting Section A		Interviewer Name
Date	of Interview/_day/_yr		Interviewer Number
SOUR	CE OF DRINKING WATER		
A-1	homes from many different sources.		Water system with 15 or more households or that serves more than 25 people (Go to Q A-9)
	(Show card 1) This is a list of some that are common. Please tell me		Well (Go to Q A-9)
	where you get your drinking water from.		Spring (Go to Q A-9)
			Surface water (pond, lake, river, stream) (Go to Q A-9)
			Cistern (Go to Q A-9)
			Hauled (Go to Q A-4)
1			Purchased bottled (Go to Q A-6)
l	INTERVIEWER INSTRUCTION: If the Respondent indicate questions A-2 and A-3.	es more	than one source of drinking water, ask
<u> </u>			
FOR	HOUSEHOLDS WITH MULTIPLE DRINKING WATER SUPPLIE	ES	
A-2	Why do you have more than one drinking water supply?	01	The major supply is sometimes of insufficient quality to drink
		02	The major supply is available all of the time, but does not produce a sufficient quantity of water
		03	The major supply is sometimes unavailable (interrupted service)
		04	The different supplies serve different parts of the house
		05	One supply is too expensive
		06	A newer system was installed without removing the old system
		-8	Don't know
1			Other (specify)
<u> </u>			
A-3	Which one is used the most for drinking?	01	Water system with 15 or more households or that serves more than 25 people (Go to Q A-9)
		02	Well (Go to Q A-8)
		03	Spring (Go to Q A-9)
		04	Surface Water (pond, lake, river, stream) (Go to Q A-9)
		05	Cistern (Go to Q A-9)
		06	Hauled (Go to Q A-4)
		07	Purchased bottled (Go to Q A-6)

ID			
	1		4



FOR	USERS OF HAULED WATER			A-2
A-4	Why do you haul water	.3	01	There is no other source of water available in the house
			02	Another source of water is available in the house, but it is of insufficient quality to drink
			03	Another source of water is available in the house, but the amount of water is insufficient
			04	Another source of drinking water is in the house, but is sometimes unavailable
			05	The hauled water is more healthful than other water in the house
			06	Different supplies serve different parts of the house
				Other (specify)
			************	(# times per week)
A-5	About how much water time and how often do			(# of gallons) or (# times per month)
	INTERVIEWER INSTRUCTION	N: Go to Q A-9.		
<b></b>				
FOR	USERS OF PURCHASED, BO	TTLED WATER		
A-6	Why do you use purcha	sed, bottled water?	01	There is no other source of water available in the house
			02	Another source of water is available in the house, but it is of insufficient quality to drink
			03	Another source of water is available in the house, but the amount of water is insufficient
			04	Another source of drinking water is available in the house, but it is sometimes unavailable
			05	The purchased, bottled water is more healthful than other water in the house
			06	Different supplies serve different parts of the house
				Other (specify)
<b> </b>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	************************		
A-7	Where do you get the water?	purchased, bottled	0.1	Buy it from the grocery store
			02	Buy it from the health food store
			03	Buy it from a distributor
				Other (specify)
<b> </b>				,
A-8	About how much purch do you buy and how of	ised, <u>bottled</u> water ften do you buy it?	٠	(# of times per week) or (# of times per month)
1				



MAJOR HOUSEHOLD WA	TER SUPPLY		A-3
major househo	ing water supply also the ld water supply; the one you of your household needs?	0 <u> </u>	No Yes (Go to Q A-11)
A-10 What is the m	ajor supply of household	01	Water system with 15 or more households or that serves more than 25 people
water (Show o	ara 1)	02	Well
		03	Spring
v		04	Surface water (pond, lake, river, stream)
		05	Cistern
		06	Hauled
		07	Purchased, bottled
this major s	INSTRUCTION: Read the following: "For apply of water, the one which supplies household water supply."	the res	t of the interview we will be talking about the water you use in the house and we'll
AGE OF THE SUPPLY	MATTON		
A-11 Approximately	how many years have you		
been served b	y this supply of water?		_ (# of years)
USES OF WATER			
source of water like to find there is a list water. Which	ave established the major er for this house, I would but how it is used. (Show card 2) t of common indoor uses of of these describe how the in this house?		Drinking  Cooking  Bathing/showering/grooming  Flushing system  Washing dishes  Washing clothes  Cooling the house  Other (specify)
A 12 (Mars and 2)	Is this same source of	·····	Periodic cleaning such as washing cars/windows/etc.
A-13 (Snow card 3) water used for uses?	r any of these outside	H	Watering lawn and/or garden
uses.		님	Ornamental (fountains, etc.)
		H	Recreational (swimming pool)
			Farm pond
		ī	Water livestock (not pets)
			Irrigating farm crops (not garden)
			Greenhouse
			Other (specify)

\*

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A-9	32	48
A-10	33 34	49
A-11	35 36	50
	37	51
	38	52
A-12	39 A-13	53
	40	54
	41	55
	42	56
	43	57
	44	58
	45	59
	46	
	47	

SYSTEM OWNERSHIP		A-4
A-14 We are interested in learning a little more about the system which supplies your water. (Show card 4) Who owns the	01 <u> </u>	Someone from this household  Private citizen, other than someone from this
system?	••	household
	03	Cooperative
	٥٠٠	Public
	05	Private firm
	06	No owner
	-8	Don't know
	Ш	Other (specify)
SIZE OF SUPPLY SYSTEM		
A-15 Is your water supply also connected to other households?	° 🔲	No (Go to Q A-21)
other househords.	1	Yes
A-16 About how many?		(Number)
MULTIPLE CONNECTION SYSTEMS		
A-17 What is the name and address of the system which supplies your water?		(Name)
		(Address)
		(Go to Q A-19)
		The system has no name
		Don't know
A-18 Who could I contact that would know	**********	
about the operation of the water		(Name)
system?		(Address)
		Don't know
A-19 (Show card 5) How well do you like the	5 🔲	Very well satisfied
way the water system is operated and managed?	4 🔲	Well satisfied
	з 🔲	Satisfied
	2 🔲	Dissatisfied
	1	Very dissatisfied
4 00 (Many and 5). Here need of today many with	5 🗍	Very well satisfied
A-20 (Show card 5) now satisfied are you with		
A-20 (Show card 5) How satisfied are you with the physical facilities of the water systemthe pipe size, the storage capa-	4 □	Well satisfied
the physical facilities of the water	4     3	Well satisfied Satisfied
the physical facilities of the water systemthe pipe size, the storage capa-	4   3   2   1	•

INDIVIDUAL SYSTEMS	 <b>A-</b> 5
A-21 Sometimes people are able to get free information or free advice about their water supply. (Show card 6) Have you ever received free help concerning any of these?	No free help (Go to Q A-23)  Finding water  Siting of the facility  Building water facilities (drilling wells, building cistern, etc.)  Altering the system  Testing the water  Other (specify)
A-22 Who provided this help?	Private business (Name)
	Individual Don't know
A-23 Sometimes people can pick out certain things that they like about their water supply; is there anything you particularly like?	Nothing in particular  Pressure Inexpensive Taste Smell Color Clarity Sediment free Soft Affords independence Reliability Healthful Convenient Temperature Amount of water Other (specify)

	_	<b>-</b>
	71	9
	72	10
	73	11
	74	12
A-21	75	13
	76	14
	77	15
	78	16
	79 A-23	17
	80	18
ID	1 4	19
DK	5 6	20
A-22	7 8	21
		22
		23
		24
		25
		26
		27

		<u>.</u> :		A-6
A-24	On the other hand, is there anything you especially dislike about the water		Nothing in particular	
	supply?		Pressure	
			Expensive	
			Taste	
			Smel1	
			Color	
			Cloudy	
			Sediment	
			Hard	
1			Does not afford independence	
			Unreliable	
			Not healthful	
			Not convenient	
			Temperature	
			Amount of water	
			Other (specify)	
				_
ļ				••••••
A-25	For your situation, do you prefer your present water supply system, or would you rather receive water from a different kind of supply system?	2	Present system (Go to Q A-29)  Different system	
A-26	Why would you like a system change?		Pressure	•••••
" = 0	my nouse you same a system change.		Cost	
		H	Taste	
			Sme11	
			Color	
			Clarity	
		님	Sediment	
		H	Softness	
		H	Independence	
		Η	Reliability	
			Healthfulness	
		H	Convenience	
l			Temperature	
l		1 1	Temperatore	
			Amount of water	
			Amount of water	<del></del>
				_ <del>_</del>
			Amount of water	

	<u>[</u>	A-25	
	28	_	47
	29		48
	30		49
ļ	31		50
	32		51
	33		52
	34		53
	35		54
	36		55
A-24	37	A-26	56
	38		57
	39		-58
	40		59
	41		60
	<del></del>		61
	43		62
	<del>- 44</del>		63
	45		64
	46		65

A-27 (Show card 7) What size of water system would you prefer to have for your	1 An individual system
siutation?	A small supply system with a few connections, say less than 15 households or fewer than 25 peop.
	A large supply system with many connections, say 15 or more households or 25 or more people
A-28 (Show card 8) What kind of ownership would you perfer for that system?	1 Owned by someone in this house
	2 Privately owned system, but owned by someone outside this house
	3 Publicly owned system
	A system owned by a cooperative
	5 A system owned by a private firm
ODOR	
A-29 Now, I'd like to ask you a series of	0 No odor (Go to Q A-31)
questions about various characteristics of your household water. I want you to	1 Slight odor
think about these things in light of your experience in this household in the past year. Some of the questions	2 Strong odor
will seem to overlap. For instance,	
it is hard to distinguish the taste of the water from the way it smells. But	
as we talk about them, please try to	
keep them separate. (Show oard 9) Sometimes water has an odor or smell.	
In your opinion, which of these cate-	
gories best describes the usual <u>smell</u> of the water over the past year?	
of the water over the past year.	
A-30 Can you describe the odor? What does	01 Rotten eggs (sulphur)
the water <u>smell</u> like?	O2 Chlorine
	03 Putrid (sewage odor)
	O4 Swampy
	Other (specify)
A-31 Do you ever notice any changes in the	0 No (If Respondent also answered "No odor" to
smell of the water?	Q A-29, then go to Q A-36)
	1 Yes
A-32 (Show card 10) How often would you say	4 All of the time
the water has an odor?	3 Most of the time
	2 Some of the time
	1 Hardly ever
	- <u> </u>

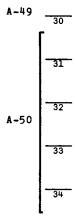
- A-27 \_\_\_\_
- A-28 \_\_\_\_
- A-29 \_\_\_\_
- A-30<sup>-</sup> 69 70
- A-31 \_\_\_\_
- A-32 \_\_\_\_\_

A-33 What do you think is the major reason for the <u>odor</u> of the water?	INTERVIEWER INSTRUCTION: Record the response, then check the most applicable category.
	01 A problem within the house (plumbing, etc.) 02 A breakdown in the physical facilities of the water system outside the house
	Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, inadequate filter, etc.)
	04 Mismanagement of the system (ill-trained operators, inattention, etc.)  05 Deliberate or planned activities (additives, etc.)
	-8 Don't know Other
INTERVIEWER INSTRUCTION: If Respondent mentioned go to Q A-35.	d any seasonal factors, check "yes" in Q A-34, then
A-34 Do you also notice seasonal variations in the way the water <u>smells</u> ?	0 No (Go to Q A-38) 1 Yes
A-35 (Show card 9) Which of these categories do you think best describes the <u>odor</u> of the water for each of the four seasons?	No odor Slight odor Strong odor  Spring  Summer  Fall  Winter
A-36 (Show card 11) Which one of these categories best describes how you feel about the smell of the water?	5 I like it a great deal; it is very pleasing to me 4 I like it 3 It is alright. I am used to it and I really don't notice or think about it much 2 I don't like it 1 I dislike it very much and I really wish I could change it
A-37 Next I have some questions on the taste of the water. Would you say that over the last year the water	0 No taste (Go to Q A-39)  1 Slight taste
has usually had <u>no taste</u> , a <u>slight</u> <u>taste</u> , or a <u>strong</u> <u>taste</u> ?	2 Strong taste

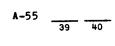
				1-9
A-38 What do you think it tastes	like? 01	Ш	Sweet	
	02		Sour	
	03		Bitter	
	04	一	Salty	
	05	Ħ	Mineral water	
	06		Chlorine	
		7		
	07		Swampy	
		Ш	Other (specify)	:
			***************************************	
A-39 Do you ever get noticeable the taste of the water?	changes in 0		No (If Respondent also answered "No taste" to Q A-37, then go to Q A-44)	
	1		Yes	
A-40 (Show eard 10) How much of the	e time 4	$\Box$	All of the time	
would you say you notice a				
			Most of the time	
	2	Ц	Some of the time	
	1	Ш	Hardly ever	
A /3 IT as a second state to the ma		mpput	EWER INSTRUCTION: Record the response, then ch	26
A-41 What do you think is the may for the <u>taste</u> of the water?			t applicable category.	ick
	<b>_</b> _			
	<del></del>			
	01	П	A problem within the house (plumbing, etc.)	
	01 02		A breakdown in the physical facilities of the	
	02		A breakdown in the physical facilities of the water system outside the house	
			A breakdown in the physical facilities of the	
	02		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too	ors,
	02		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operator)	
	02 03 04		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operationattention, etc.)	
	02 03 04 05		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)	
	02 03 04 05 -8		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other	
INTERVIEWER INSTRUCTION: If I	02 03 04 05 -8		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)	
Q A-43.	02 03 04 05 -8 Respondent mentioned any		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other  mal factors, check "yes" to Q A-42, then go to	
Q A-43.  A-42 Do you also notice any seaso	02 03 04 05 -8 Respondent mentioned any		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other	
Q A-43.	02 03 04 05 -8 Respondent mentioned any		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other  mal factors, check "yes" to Q A-42, then go to	
Q A-43.  A-42 Do you also notice any seaso	02 03 04 05 -8 Respondent mentioned any		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other  mal factors, check "yes" to Q A-42, then go to	
Q A-43.  A-42 Do you also notice any seaso	02 03 04 05 -8 Respondent mentioned any		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other  mal factors, check "yes" to Q A-42, then go to	
A-42 Do you also notice any seaso	02 03 04 05 -8 Respondent mentioned any		A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)  Mismanagement of the system (ill-trained operatinattention, etc.)  Deliberate or planned activities (additives, etc.)  Don't know  Other  mal factors, check "yes" to Q A-42, then go to	

		A-10 .
	(Show card 12) Which of these categories would you say best describes the taste of the water for each of the four	0 1 2 No taste Slight taste Strong taste Spring
	seasons?	Summer
		Fal1
		Winter
	(Show card 11) Please indicate which one of these categories best describes how	5 I like it a great deal; it is very pleasing to me
	you feel about the taste of the water?	4 I like it
		3 It is alright. I am used to it and I really don't notice or think about it much
		2 I don't like it
		1 I dislike it very much and I really wish I could change it
TEMPE	ERATURE	
A-45	These next few questions relate to the temperature of the water. What would	3 Cold
	you say that the temperature of the water in the past year has usually	2 Cool
	beencold, cool or warm?	1 Warm
		^ ¬ v-
A-46	Do you ever get any noticeable changes in the <u>temperature</u> of the water?	0 No 1 Yes
	6	— — — — — — — — — — — — — — — — — — —
A-4/	(Show card 10) How often would you say the water has this usual <u>temperature</u> ?	1 All of the time 2 Most of the time
<b></b>		4 Hardly ever
A-48	What do you think is the major reason for the temperature of the water?	INTERVIEWER INSTRUCTION: Record the response, then check the most applicable category.
		01 Natural temperature of the water
		02 Pipes are too close to the surface of the ground
		03 Pipes pass too close to a heating device (furnace, heater, etc.)
		04 Storage tank is in direct sunlight or otherwise heated
		05 Seasonal factors (Go to Q A-50)
ĺ		-8 Don't know
ĺ		Other
ŀ	INTERVIEWER INSTRUCTION: If the Respondent mentio	one any seasonal factors, check Q A-49 then go to Q A-50.
•	INIBILITANDI ZNOZNOZIVAL -, T	

	Do you also notice seasonal variation in the <u>temperature</u> of the water?	0 No (Go to Q A-51) 1 Yes	A-11
A-50	(Show card 13) Which one of these categories would you say best describes the temperature of the water for each of the four seasons?	Spring Summer Fall Winter	
A-51	(Show card 11) Which one of these categories would you say best describes how you feel about the temperature of the water?	5 I like it a great deal; it is very pleasing to 4 I like it 3 It is alright. I am used to it and I really d notice or think about it much 2 I don't like it 1 I dislike it very much and I really wish I cou change it	lon't
CLEA	RNESS-CLOUDINESS		
A-52	The next three sets of questions need some explanation. The first group deals with how clear the water looks. The second group deals with the color of the water, and the third asks about sediment, or particles that might be in the water. It can be hard sometimes to keep these things straight, so let me explain. Water can sometimes be cloudy, which makes it harder to see through. If it is cloudy, it may have some sort of color too. But even clear water can sometimes have color, like a grayish or yellowish cast, for example. Also, regardless of whether the water is cloudy or has color, it can have sediment or particles in it. In a glass of water the sediment would settle to the bottom, like sand or something. OK? Now we'll start with how clear or cloudy the water looks.  (Show card 14) For the past year, would you say the water has usually been cloudy or clear?	1 Clear 2 Slightly cloudy	
	Cloudy of Clear.	3 Very cloudy	
	Do you ever get noticeable changes in the clearness or cloudiness of the water?	No (If Respondent also answered "clear" to Q A-52, then go to Q A-58.)  1 Yes	
			••••••
	(Show card 10) How often would you say the <u>cloudiness</u> occurs?	4 All of the time 3 Most of the time	
		2 Some of the time	
		1 Hardly ever	



A-55 What would you say is the major reason for the cloudiness?	INTERVIEWER INSTRUCTION: Record the response, then check the most applicable category.
	01. A problem within the house (plumbing, etc.)
	02 A breakdown in the physical facilities of the water system outside the house
	Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)
	04 Mismanagement of the system (ill-trained operators, inattention, etc.)
	05 Deliberate or planned activities (additives, etc.)
	-8 Don't know Other
	INTERVIEWER INSTRUCTION: If Respondent mentioned any seasonal factors, check "yes" in Q A-56, then go to Q A-57.
A-56 Do you also notice seasonal variations in the <u>clearness</u> of <u>cloudiness</u> of the water?	0 No (Go to Q A-58) 1 Yes
A-57 (Show card 14) Which of these categories do you think best describes the <u>clear</u> - ness or <u>cloudiness</u> of the water for each of the four seasons?	Clear Slightly cloudy Very cloudy Spring Summer Fall Winter
A-58 (Show card 11) Which one of these cate- gories would you say best describes how you feel about how clear or cloudy the water is?	5 I like it a great deal; it is very pleasing to me 4 I like it 3 It is alright. I am used to it and I really don't notice or think about it much
	2 I don't like it  1 I dislike it very much and I really wish I could change it
COLOR	
A-59 Now, we're into the second set of questions dealing with the <u>color</u> of water. Would you say the water is usually very colored or slightly colored or has no color at all?	0 No color (Go to Q A-81) 1 Slightly colored 2 Very colored



1	A-13
A-60 What is the usual color?	01 Red
	02 Orange
	03 Black
	04 Yellow
	05 White
	06 Grey
	07 Brown
	08 <b>Blue</b>
	09 Green
	Other (specify)
A-61 Do you ever get noticeable changes in the color of the water?	No (If Respondent also answered "No color" to Q A-59, then go to Q A-66.)
·	1 Yes
A-62 (Show card 10) About how much of the	4 All of the time
time would you say the water has color?	3 Most of the time
	2 Some of the time
	1 Hardly ever
A-63 What do you think is the major reason for the color of the water?	INTERVIEWER INSTRUCTION: Record the response, then check the most applicable category.
	01 A problem within the house (plumbing, etc.)
	O2 A breakdown in the physical facilities of the water system outside the house
	O3 Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)
	04 Mismanagement of the system (ill-trained operators, inattention, etc.)
	05 Deliberate or planned activities (additives, etc.)
	-8 Don't know
	Other
	any seasonal factors, check "yes" in Q A-64, then go to
Q A-65.	
A-64 Do you also notice any seasonal	0 No (Go to Q A-66)
variations in the color of the water?	1 Yes
	]

A-65	(Show card 15) Which category would you say best describes the <u>color</u> of the water for each of the four seasons?		A-14   0   1   2
A-66	(Show card 11) Which one of these categories would you say best describes how you feel about the color of the water?	5 4 3 2	I like it a great deal; it is very pleasing to me I like it It is alright. I am used to it and I really don't notice or think about it much I don't like it I dislike it very much and I really wish I could change it
SEDI	MENT OR PARTICLES		
A-67	Now, I'll ask you if, in the past year, the water has usually had any sediment in it. (Show card 16) Which of these categories would you say describes the water with regard to sediment or particles?	0 1 2 3	No sediment Usually no sediment Usually some sediment Usually heavy sediment
A-68	Do you every notice any changes in the sediment or particle content of the water?	0	No (If Respondent also said "No sediment" in Q A-67, then go to Q A-73.) Yes
A-69	(Show card 10) How often would you say the water has <u>sediment</u> or <u>particles</u> ?	4 3 2	All of the time  Most of the time  Some of the time  Hardly ever
A-70	What do you think is the major reason for the sediment in the water?	IN	TEWER INSTRUCTION: Record the response, then the most applicable category.
		_	
		01	A problem within the house (plumbing, etc.)
		02	A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)
		04	Mismanagement of the system (ill-trained operators, inattention, etc.)
		05	Deliberate or planned activities (additives, etc.)

INTERVIEWER INSTRUCTIONS: If Respondent mentioned any seasonal factors, check "yes" in Q A-71, then go to Q A-72.

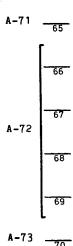
8 Don't know

Other

I	ſ
	55
A-65	56
	57
	58
A-66	59
A-67	60

		_	-				A-15
A-71	Do you also notice seasonal variations in the <u>sediment</u> or <u>particle</u> content	o.	_ No (	Go to Q A-73)			
	of the water?	1	Yes				
						• • • • • • • • • • • • • • • • • • • •	
A-72	(Show card 16) Which of these categories			0	1	2	3
	do you think best describes the			N-	Usually No	Usually Some	Usually Heavy
	sediment content of the water for each of the four seasons in the last year?			No Sediment	Sediment	Sediment	Sediment
[			Spri	ng			
[			Summ		<del> </del>	<del> </del>	
Ī			Jun 1				
			Fall				
			Wint	er -	<del>                                     </del>	<del> </del>	<del>  </del>
ł				·	<u> </u>		
<b>.</b>	***************************************						
A-73	(Show card 11) Which one of these	5	] I 11	ke it a great	deal; it is	s very plea	sing to me
ĺ	categories would you say best describes	=	í .,,	ke it			
ļ	how you feel about any <u>sediment</u> or lack of sediment in <u>your water?</u>	" <u></u>	_ ` ` ` `	Ke It			
		3		s alright. I k about it mu		it and I r	eally don't
		2	] I do	n't like it			
İ		1		slike it very	much and I	really wis	h I could
l			chan	ge it			
					····		
WATE	R QUANTITY						
A-74	Next, I want to ask about the amount of	1	A11	the water I	ever want		
	water that is available to you, that	, <u> </u>	 	ally as much w	votor na T w	ant	
1	is, whether you can get enough water for your needs. (Show card 17) For the	<sup>2</sup> L	ساهان ال	illy as much v	water as I w	ant	
1	past year, which of these categories	3 F	Usus	illy not as m	uch water as	I want	
	would you say best describes how much water you generally get for your house-	4 F	7 Neve	er as much wat	ter as I wan	ıt	
	hold uses from your major water supply?	` L	لـ				
·····		•••••	•••••		• • • • • • • • • • • • • • • • • • • •	•••••	
A-75	Do you ever notice changes in the	٥٢	7 No	If Respondent	t also answe	red "all th	ue water I
	amount of water you can get?	-	ever	want" to Q	4–74, then g	10 to Q A-1	30.)
l		ıГ	7 Yes				
A = 76	(Show card 10) How often does the con-	ı [	7 A11	of the time			
A-70	dition occur?						
1		<sup>2</sup> L	Most	of the time			
]		3 <b></b>	] Some	of the time			
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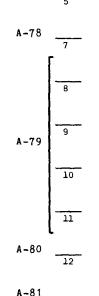
$$A-74 \quad -\frac{71}{71}$$

$$A-75 - \frac{}{72}$$

$$A-76 - \frac{73}{73}$$

у	That do you think is the major reason you don't get as <u>much</u> water as you need?	INTERVIEWER INSTRUCTION: Record the response, then check the most applicable category.		
		A problem within the house (plumbing, etc.)  A breakdown in the physical facilities of the water system outside the house  Inadequacy of the physical facilities of the system (pipes too small, storage capacity too small, etc.)		
		04. Mismanagement of the system (ill-trained operators, inattention, etc.)		
		05 Deliberate or planned activities (additives, etc.)		
		-8 Don't know		
	Other			
	INTERVIEWER INSTRUCITON: If Respondent mentioned any seasonal factors, check "yes" in Q $A-78$ , then go to Q $A-79$ .			
		□ v (0: 4: 0.4.00)		
,	Do you also notice any seasonal variations in the <u>amount of water</u> you get?	0 No (Go to Q A-80) 1 Yes		
	(Show card 17) Which of these categories do you think best describes how much water you can get for each of the four seasons?	All the Usually not. Never as water I much water as much water much water ever want as I want as I want Spring  Summer  Fall		
		Winter		
A-80	(Show card 11) Which of these categories would you say best describes how you feel about the amount of water you can	5 I like it a great deal; it is very pleasing to me		
<b>i</b> :		4 I like it		
	get throughout the year?	3 It is alright. I am used to it and I really don't think about it much		
		2 I don't like it		
		I dislike it wery much and I really wish I could change it		
	PRESSURE Now, some questions about the water	01 About right		
1	pressure. (Show oard 18) Which of these categories do you think best describes the usual pressure of the water for the last year?	12 Too high		
1		13 Too low		
		14 Goes up and down (fluctuates)		
		-9 Not applicable—not a piped, pressurized system (Go to Q A-88)		

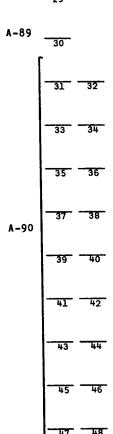
A-77		
	7 LL	75



	•								A-17 .
A-82	Do you ever notice changes in the water pressure from what is usually is?	0			Responden then go t			bout right'	
		1		Yes					
	***************************************	• • • • • •	• • • • • •			•••••	• • • • • • • • • • • • • • • • • • • •		•••••
A-83	(Show card 10) About how much of the time in the past year was the water	1			the time				
	pressure that way?	2	$\sqcup$		the time				
		3	$\sqcup$	Some of	the time				
			Ц.	Hardly	ever				
A-84	What do you think is the major reason for that condition?				TRUCTION: able categ		he respon	ise, then c	neck
						<del></del>			<del></del>
		01		A probl	em within	the house	(plumbin	ng, etc.)	
		02			down in the		facilit:	ies of the	water
		03		-	acy of the				
			_	small,	etc.)				
		04	Ш		igement of ition, etc.	. •	em (111-6)	rained oper	ators,
		05		Deliber	ate or pla	nned act	ivities (	additives,	etc.)
		-8		Don't k	cnow				
			<u> </u>	Other					
	INTERVIEWER INSTRUCTION: If Respondent mentioned to Q A-86.	any .	8ea80	nal fact	tors, check	( "yes" i:	1 Q A-85,	then go	
A-85	Do you also notice seasonal	0	$\Box$	No (Go	to Q A-87	•••••• ?)		***********	•••••
" "	variations in the water pressure?	1	H	Yes					
<b>1</b>									•••••
A-86	(Show card 18) Which of these categories best describes the <u>water pressure</u> for				01	12	13	14 Goes up	
1	each of the four seasons?				About Right	Too High	Too Low	and down	
				Spring					_
				Summer			-		
				Fall Winter	<b></b>			ļ	_
1				WINCEL				<u> </u>	
<b> </b>		•••••			,				
A-87	(Show card 11) Which of these categories would you say best describes how you feel about the water pressure you have	5 4		I like		t deal; i	t is very	pleasing t	o me
	throughout the year?	3		It is a			to it an	d I really	don't
	•	2			t like it				
		1	H	I disl:	ike it ver	y much an	d I reall	y wish I co	ould
				change	it				

$$A-87$$

HEALTH	
A-88 Okay. The next question deals with the safety of the water. Sometimes water affects people's health, and you may have noticed occasional health problems due to the water here. Would you tell me, please, if in the past year you think that anyone who lives here became ill because of the water provided by the major household water supply?	0 No 1 Possibly 2 Yes
A-89 Has it ever happened that a visitor or guest became ill after using the water here?	No (If Respondent also answered "No" to Q A-88, then go to Q A-91.)  Possibly  Yes
A-90 Please describe the <u>illness(es)</u> and about how many times someone was sick from each type of <u>illness</u> in the past year.	No. of Description/Symptoms Incidents
GENERAL PROBLEMS  A-91 We have talked about the color, temperature, clarity and other characteristics of the water. Do any of these result in specific problems or inconveniences that we have not discussed?	0 No (Go to Q A-93) 1 Yes
A-92 What would you say are the problems or inconveniences?	O1



COST OF WATER	]		A-1
about the water how you pay for of differ bill; ot and pay electric people or receive along withe cost rent or less of feel the	would like to learn some things to costs of your household. You may not think a lot about pay for water because people their household water in a lot trent ways. Some people get a ther people have their own well to repair it or they pay for ity or gas to run it. Some lon't pay money for water but it in exchange for their labor th wages. For other people, of water is included in their mortgage payment. Now, regard-how you pay for water, do you at the cost of your water is increase.	0   1   2   3   4   1   8   1	No cost (Go to Q A-97) Inexpensive Reasonable Expensive Very expensive Don't know
has inc	think the <u>cost</u> of your water reased, <u>decreased</u> or <u>remained</u> during the past year?	1	Decreased  Remained the same  Increased
	d 19) How do you pay for the use of your household water?	01   02   03   04   0   04   0   04   0   04   0   0	Receive a regular water billing  It is included in the mortgage payment (Go to Q A-97)  It is the cost of operating and maintaining equipment (electricity, gas, parts, labor, etc.) (Go to Q A-97)  Don't know (Go to Q A-97)  Other (specify)

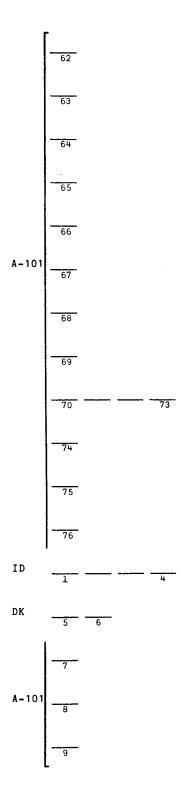
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	57 60		13		18
	61		19		24
	62		25		
	63		26	29	
	64	A-96	30	33	
A-96	65		34	38	-
	66		39	42	
	67		43	47	-
	68		48	51	
	69		52	- 56	-
	70 71	A-97	57		
	72 73				
	74 75				
	74 75 -76 77 -1 4				
ID	1				
DK	5 6				

A-98 You pay for your water by:	
INTERVIEWER INSTRUCTION: Review how the Respondent pays for water—through a bill, by maintaining a well or cistern, labor costs, electricity costs, etc.	(Record relevant additions or comments)
Is that right?	
Now I need to ask you a question that will help us understand if people across the country would pay more money for their water if they could have a good water supply. Suppose you were offered a supply of water like I described a minute ago, that is good to drink, that gives as much water as you need for the house and so on. Think how that kind of water supply compares to the one you have now. How much more would you be willing to pay each year to have that water supplynothing, 5% more, 10%, 25%, twice as much, or what?	0 Willing to pay the same 1 Willing to pay less 2 Willing to pay more
HOUSING CHARACTERISTICS	
A-99 Next I have a few questions concerning your housing. How long have you lived here?	(No. of years)
A-100 Do you own or rent this home?	1 Own 2 Rent Other (specify)

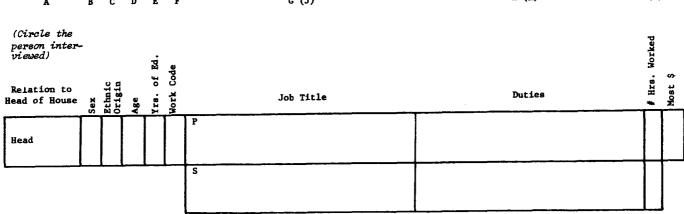
		A-22
shared)	(number)	
		Bathtubs
		Showers
		Bathroom sinks
		Kitchen sinks
		Flush toilets
		Washing machines
		Dishwashers
		Not water heaters (capacity)
		Swamp/evaporative coolers (for cooling house)
		Household humidifers
		Other (specify)

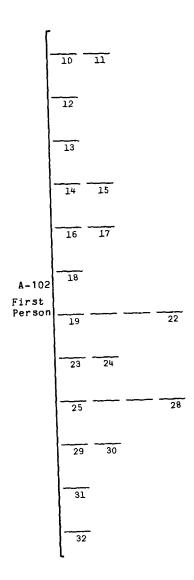
A-101 (Show oard 22) Here is a card that shows some things people have in their homes. Could you please tell me how many of each one there is in this house?

INTERVIEWER INSTRUCTION: If the household is a multiple family dwelling unit, then inquire if any of mentioned items are shared with another unit and indicate those which are shared.



DEMOGR	RAPH	A-1	23
A-102	The	e next group of questions asks about everyone who lives in this house on a regular basis.	
		Is that a man/boy or woman/girl?	
		(Show card 23) Which one of these groups best describe him/her?	
		1 White (Not of Hispanic origin) 3 Hispanic 5 Asian or Pacific 2 Black (Not of Hispanic origin) 4 American Indian or Alaskan Native Islander	
	D.	About how old is he/she? (If person is under 16, then go to item A)	
	E.	(Show card 24) How many years of formal eduction has he/she completed?	
		Elementary Jr. High and High School College 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 + (13 14 15 16 17 18 +)	
	F.	(Show card 25) Which one of these best describes him/her ?	
		1 Working full time 3 Going to school 5 Retired 2 Working part time 4 Keeping house 6 Unemployed	
	G.	What kind of work does he/she usually do; what is the job called?	
	н.	What are the main duties of the job?	
	ı.	About how many hours did he/she work at that job last week?	
	J.	Does he/she also have another job? (If no other job, then go to Item A) What is the job called?	
	ĸ.	What are the main duties?	
	L.	About how many hours did he/she work at that job last week?	
	M.	Does he/she earn more money at the first job or the second job? (write the appropriate code # below)	
		0 About the same 1 First 2 Second 8 Don't know	
	N.	INTERVIEWER INSTRUCTION: Circle this person in column A if he/she is the person being interviewed.	
	A.	Now let's talk about the next person who lives here on a regular basis. Who would that be? (How are they related to the head of the household?)	
		INTERVIEWER INSTRUCTION: When the Respondent has identified everyone in the household, count the number you have recorded then ask if that is the correct number of people who live in this household on a regular basis. If it is not, then continue listing individuals until you have the correct number.	
1	<b>A</b>	B C D E F G (J) H (K) I (L	.) 1
(Circl	e the	e	
person viewed	inte	· ·	
	-	F F F F F F F F F F F F F F F F F F F	s





A	В	С	D	E	F	G (J)	H (K)	I(L)	M
(Circle the person interviewed)	-	2.5		Yrs of Ed.	Code			# Hrs. Worked (T)	₩.
viewed)  Relation to  Head of House	Sex	Ethni Origi	Age	Yrs o	Work Code	Job Title	Duties	# Hr	Most
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	<del>!</del>					S			
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	39	40				6	<u> </u>	63		
A-102	41				2	4				
Second Person	42		 45		Thir Pers	~ n l	5	<del></del>		68
	46	47				-	9	70		
	48		 51			1-7	71			74
	52	53				-	15	76		
	54					-	17			
	55					_	78			

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(Circle the person into viewed) Relation t	r-	Ethnic Origin	g <sub>1</sub>	B. of Ed.	Work Code			# Hrs. Worked	Most \$
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INCOME									
A-104 Do	you	own	or	leas	se a	a farm? 0 No	(Go to Q A-107)		
						1 Yes			
A-105 Wha	 t wa	 s th	 e g	 ross	 s fa	arm income last		• • • • •	•••••
yea	r?					\$			
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## SECTION B

## PHYSICAL FACILITIES

Time of Starting Section B	Interviewer Name
Date of Interview/day / yr	Interviewer Number
INTERVIEWER INSTRUCTION: After obtaining the required information Respondent.  Before continuing with the next set of question ties, I would like to once again establish the type hold. In an earlier question, you indicated that the	ns, which deals generally with physical facili- of (major) water supply serving this house-
WATER SUPPLIES	
water to this household, are there any that you haven't told me about?	No (If the Respondent said in Section A that the (major) supply is a well, spring, surface water source or cisten, go to Q B-4; otherwise, go to Q B-15.)  Yes
B-2 (Show card 1) Which of these cate- gories best describes the additional supply or supplies?	Water system with 15 or more households or that serves more than 25 people  Well Spring Surface water (pond, lake, river, stream) Cistern Hauled Purchased, bottled
B-3 Why does this household have the additional supply (ies)?	The major supply is sometimes of insufficient quality to drink  The major supply is available all of the time, but does not produce a sufficient quantity of water  The major supply is sometimes unavailable (interrupted service)  The different supplies serve different parts of the house  One supply is too expensive  A newer system was installed without removing the old system  Don't know  Other (specify)

		_
ID	1 4	15
DK	5 6	16
B-1	7	17
	8	18
	<del>-9</del> B-3	19
	10	20
B-2	11	21
	12	22
	13	23
	14-	24

	INTERVIEWER INSTRUCTION: If the major supply of hou connections or that serves more than 25 people, then	usehold water is a water system with 15 or more n go to Q B-15.
B-4	Concerning the (major) water supply again, what is the approximate distance between the building and the point at which the water is withdrawn?  -8	(Specify distance in units used by the respondent, i.e., meters, feet, yards, or miles)  Don't know
WELLS	7	
_	INTERVIEWER INSTRUCTION: Ask this set of questions this supply is a cistern, go to Q B-12. Otherwise,	only if the (major) supply of water is a well. If go to Q B-15.
B-5	The next few questions will be about the well that serves as this household's (major) water supply. Initially, I need to know how long ago the well was last modified. A modification includes such activities as increasing the well's depth, installing or replacing its casing, or any other type of major improvement or change. If the well hasn't been altered, I need to know how long ago it was put in. Could you provide me with either piece of information?	(# of years)  B Don't know
B-6	Sometimes, when a well is dug or improvements are made to it, a permit is necessary before work can begin, or before the well can be used. (Show card 26) Have you had to obtain a permit or approval for any of these?	No (Go to Q B-8)  Well siting  Well sinking  Using the well  Don't know (Go to Q B-8)  Other (specify)
B-7	Who issued the permit or approval?	State agency(Name)
		County agency(Name)
		Local agency (city, town, village)(Name)
		Land owner
		Don't know Other (specify)

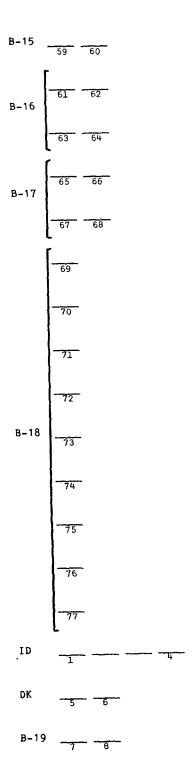
B-4	25			28
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B-6

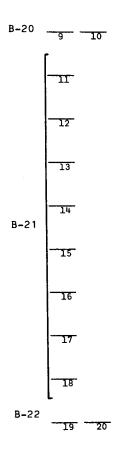
B-7

B-9   How was the well put in? Was it dug, bored, drilled, driven, jetted, or installed in some other way?   2	B-8	Could you please tell me the approximate depth of the well?	(Specify depth in units used by the respondent, i.e., meters, feet, yards, or miles)
B-11 Is the head of the well grouted?    B-11 Is the head of the well grouted?   0	В-9	bored, drilled, driven, jetted, or	2 Bored 3 Drilled 4 Driven 5 Jetted 8 Don't know
INTERVIEWER INSTRUCTION: Qo to Q B-15.    INTERVIEWER INSTRUCTION: Ask this set of questions only if the (major) supply of water is a cistern.   B-12   Does the cistern have a manual device, an automatic device, or no device for preventing first water from entering it?   1   Manual   2   Automatic   8   Don't know	B-10		
B-12 Does the cistern have a manual device, an automatic device, or no device for preventing first water from entering it?  B-13 Does the cistern have a cleaning drain?  B-14 (Show card 27) Which of these best describes the cistern catchment area?  B-14 (Show card 27) Which of these best 2 Ground surface  B-15 Both roof and ground	B-11		1 Yes
B-12 Does the cistern have a manual device, an automatic device, or no device for preventing first water from entering it?    Manual   2	CIST		tions only if the (major) supply of water is a cistern.
B-14 (Show card 27) Which of these best describes the cistern catchment area?    1	B-12	Does the cistern have a manual device, an automatic device, or no device for	0 No device 1 Manual 2 Automatic
describes the cistern catchment area?  2 Ground surface  3 Both roof and ground	B-13	Does the cistern have a cleaning drain?	1 Yes
Other (specify)	B-14		Ground surface  Both roof and ground  Don't know

WATER	SUPPLY SYSTEM BREAKDOWNS		
B-15	Occasionally, people have difficulties with their water supply systems because of problems with the equipment. Pipes sometimes break and pumps stop operating During the past year, were there any breakdowns in the sypply system such that you could not get water?	i i	No (Go to Q B-19) Yes (# of breakdowns)
	***************************************	••••••	***************************************
B-16	How many of these breakdowns occurred inside the household/building and how many occurred outside?		(Number) Inside household Outside household Don't know
ļ	Managarahan		
B-1/	For both categories of breakdowns, inside the household/building or outside the household/building, how many breakdowns lasted for more than six		(Number)  Inside household
	hours?		Outside household
			Don't know
B-18	When a breakdown occurs, what do you or the other members of the household usually do to get water?		Wait Repair system
			Borrow from neighbors
			Use another supply here at the building
		一	Buy water or some other liquid
		ī	Don't know
			Other (specify)
L		<u> </u>	
WASTE	ATER SYSTEM		
B-19	I would now like to ask you a few ques- ions about this household's/building's wastewater disposal system. What kind	01	Wastewater runs into a pond, lake, or stream
	of system is it?	02	Wastewater runs into a sewage lagoon
		03	Septic tank
		04	Aerobic tank
		05	Cesspool
		06	Composting or biological disposal systems
		07	Chemical toilet
		08	Incineration
		09	Privy
		10	Public sewage system
		-8	Don't know
		ī	Other (specify)
I			



B-20 ′	breakdowns in the disposal system(s) so you couldn't use it/them? How many?	,00 <u> </u>	No (Fill in information after Q B-22, then go to Section C)  Yes  (# of breakdowns)
B-21	Do you know why the breakdown(s) occurred?		Septic tanks, cesspool or other disposal device became inoperative  Breakdown in household facilities (pipes, toilets, etc.)  Water was unavailable  The public sewage disposal system was inoperative  Don't know  Other (specify)
B-22	Could you please tell me how many of these breakdowns lasted for more than 6 hours?  [INTERVIEWER INSTRUCTION: Go to Section C]		(# of breakdowns)  Don't know
Time	Section B completed	0 [	] No ] Yes



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## SECTION C

## WATER QUALITY ASSAY

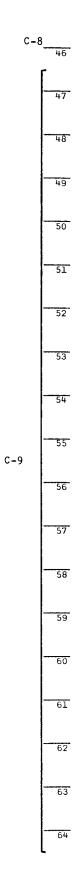
Time of Starting Section C	Interviewer Name			
Date of Interview/	Interviewer Number			
INTERVIEWER INSTRUCTION: Read the following to the Responder An important part of the information I need concerns the a Regarding this, I have several questions about contaminate the water supply system includes such devices as a pressur these questions, I need to take some specimens of the wate the analysis on water).	actual physical quality of the household water. ion, history of water tests, and whether or not re tank, water softener, or chlorinator. Following			
CONTAMINATION				
C-1 (Show card 28) In the past year do you think the household water has been subject to contamination from any of these?	None (Go to Q C-3)  Septic tank or cesspool  Privy (outhouse)  Animal waste  Fuel tank  Industrial waste  Agricultural fertilizer  Biocides (herbicides or pesticides)  Highway salt  Flooding  Mining sludge  Naturally occurring contaminants  Other (specify)			
C-2 What action, if any, did you take to correct this problem?	Do nothing  Remove the source of contamination  Contact the party responsible for the contamination  Contact legal authorities  Contact the landlord or property owner  Install some sort of protection from the contaminatio  Bring legal suit  Go to a new water supply  Other (specify)			

ID	1 4	23
DK	5 6	24
	7	25
	8	26
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C-1	14	32
	15	33
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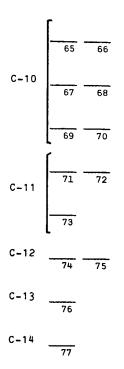
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WATER	TEST HISTORY				C-2
C-3	may have been another. Tha may have been laboratory wh qualified per laboratory pr	reasons your household water a tested at one time or at is, a water specimen a collected and sent to a sere it was examined by sonnel using standard occedures. Has your ser ever been tested in	8 C		No (Go to Q C-10)  Yes  Don't know (Go to Q C-10)
C-4	How many time	s has it been tested			
		re lived here?			(Write in the number)
 C-5	When were the		•••••	• • • • •	
L-3	when was the	water last tested?			(month and year)
			-8		Don't know
C-6	Why was the 1	ast test made?	01 <b>Г</b>	7	Water system was newly installed
	•		02 T	_	The house was sold
			03 F	╣	Someone became ill
			L	亅	
			04 L		To check the water after some natural disaster or catastrophe (flooding, earthquake, etc.)
			05 [		To check the water after a breakdown
			9.0		To check the water after a system alteration
			07	$\neg$	To determine if system alterations were needed
			-8	$\exists$	Don't know
			[		Other (specify)
C-7	Who requested	the test?	01 L		Respondent did, or some other person in the household
			02		Local officials
			03		State officials
			04	٦	Federal officials
			05		Bank or someone interested in purchasing the property
			0ō [		Contractor
			07	Ī	Standard procedure for the facility
			-8 [	Ŧ	Don't know
			į		Other (specify)

			_	C-3
C-8	Was the last test a chemical test, a bacteriological test, both, or what?	1	Ц	Chemical
	<del>-</del>	2		Bacteriological
		3		Both
		8		Don't know
				Other (specify)
C-9	What were the results of the test?			Bacteriological Results
• ,	<b></b>	1		Acceptable levels of bacteria
		2	H	Unacceptable levels of bacteria
		8		Don't know
		9	H	Not applicable
		•		Chemical Results
				All chemical constituents were at an acceptable level
		01		High levels of iron
		02	$\overline{\sqcap}$	High levels of sulphur
		03	$\overline{\sqcap}$	Unacceptable levels of arsenic
		04	$\bar{\Box}$	Unacceptable levels of barium
		05	$\bar{\sqcap}$	Unacceptable levels of cadmium
		06	Ē	Unacceptable levels of calcium
		07		Unacceptable levels of chromium
		08		Unacceptable levels of fluoride
		09		Unacceptable levels of lead
		10		Unacceptable levels of selenium
		11		Unacceptable levels of silver
		12		Unacceptable levels of magnesium
:		13		Unacceptable levels of manganese
		14		Unacceptable levels of mercury
		15		Unacceptable levels of nitrate
		16		Unacceptable levels of sodium
		17		Unacceptable turbidity
		-8		Don't know
		-9		Not applicable
				Other (specify)
I				



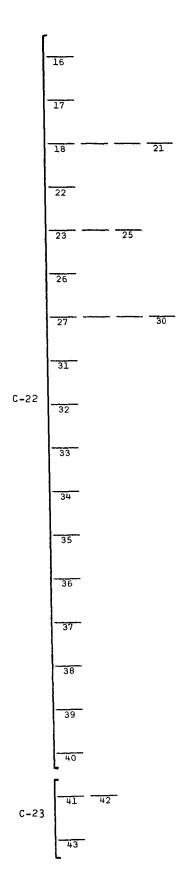
WATER SPECIMEN	C-4
INTERVIEWER INSTRUCTION: Read the following to fill with water. May I now collect some water	
C-10 Record the date.	mo day yr
C-11 Record the time of day (check the correct time to the nearest hour) and record the time	
zone.	01 1:00 am 13 1:00 pm
	02 2:00 am 14 2:00 pm
	03 3:00 am 15 3:00 pm
	04 4:00 am 16 4:00 pm
	05 5:00 am 17 5:00 pm
	06 6:00 am 18 6:00 pm
	07 7:00 am 19 7:00 pm
	08 8:00 am 20 8:00 pm
	09 9:00 am 21 9:00 pm
	10 10:00 am 22 10:00 pm
	11 11:00 am 23 11:00 pm
	12 12:00 noon 24 12:00 midnight
	TIME ZONE
	1 Eastern
	2 Central
	3 Mountain
	4 Pacific
desired setting and do not adjust. Don't begin than would be considered normal for getting a d to place the correct chemicals in the proper co in the wrong container, remove the label and ti size and additive (where appropriate) to the co tainer to your supervisor. Make sure all ident the sampled household and (2) the number representations.	from the cold water faucet. Turn the faucet to the by running the cold water for any time period longer wink of water. Put on the rubber gloves. Make sure ntainers. If, for any reason, a chemical is placed e it on a new, spare container which is identical in ntainer being discarded. Return the discarded conification labels correspond to: (1) the number of enting the order in which the sample specimen was ight that leaks are caused. Do each of the following d.
C-12 Take the water temperature. (Turn on the tap let the water flow over the thermometer bulb for 30 seconds, then record the reading.)	temperature (degrees Centigrade)
C-13 Fill the <u>one pint</u> container labeled "#1" (Microbiological) with water. Tightly cap and set aside. Check the box when completed. (Thiosulfate should already be present in the container as a preservative.)	Step C-13 completed
C-14 Fill the one quart cubitainer labeled  "#2" (General Physical and Chemical)  with water. Tightly cap and set aside.  Check box when completed. (There is  no preservative for this container.)	Step C-14 completed



C-15	Break the <u>small</u> ampule labeled "Nitric Acid." Pour the contents into the <u>one quart</u> cubitainer labeled "#3" (Metals). Discard the broken ampule in the sack provided. Fill container #3 with water, tightly cap and set aside. Check the box when completed.	C-5 Step C-15 commpleted
C-16	Break the ampule labeled "Mercuric Chloride"  Pour the contents into the one quart cubitainer labeled "#4" (Nitrates). Discard the broken ampule in the sack provided. Fill container #4 with water, tightly cap and set aside. Check the box when completed.	Step C-16 completed
C-17	Fill a one quart glass container labeled "#5" (Pesticides and Herbicides) with water. Tightly cap and set aside. Check the box when completed. (There is no preservative for this container.)	Step C-17 completed
C-18	Fill the one quart glass container which has a teflon-lined cap labeled "#6" (Pesticides and Herbicides) with water. Tightly cap and set aside. Check the box when completed. (There is no preservative for this container.)	Step C-18 completed
C-19	Break the <u>large</u> ampule labeled "Nitric Acid." Pour contents into the <u>one</u> gallon cubitainer labeled "#7" (Radio-logical). Discard the broken ampule in the sack provided. Fill container #7 with water, tightly cap and set aside. Check the box when completed.	Step C-19 completed
C-20	Turn the water off. Put the pressure gauge in place. Turn on the cold water tap, full force. Read and record the pressure.	f of pounds of pressure  Not applicable (not a pressurized system).
C-21	Record the effective volume of the pressure tank. Close all water taps. Allow the pump to run until the pressure tank has reached full pressure and the pump stops. Connect the hose to the faucet and fill the bucket provided to the top level marked on the bucket. Turn off the faucet. Empty the bucket and repeat the procedure. When the pump comes on, turn the water off. Record the number of times the bucket was filled and the number of gallons in the bucket the last time it was filled, when the pump engaged.	Number of times the bucket was filled and emptied before the pump engaged.  Fraction of a bucket (to the nearest gallon)  Unable to monitor the pump  Unable to perform the measurement  (Explain)
		No pressure tank  Not a pressurized system

ı

INTERVIEWER INSTRUCTION: The next two questions should be asked of the unable to provide the information, then complete them as adequately a observations of the facilities during the physical inspection. If you observations, label them as your observations in the left margin.  C-22 (Show card 29) Do you know how many of None of the	s possible according to your
C-22 (Show eard 29) Do you know how many of None of the	a just in any responses by your
each of these devices are connected to this building's/household's major water Don't know supply system?	e devices
(Mamber)	
Pressure t	anks (volume in gallons)
Water pump	s (capacity in gallons per minute)
	nks (volume in gallons) vater heaters)
Softeners	
Chlorinato	rs
Settling t	anks
Phosphate	feeders
Oxidation	filters
Activated	carbon filters
Other (spe	ecify)
describes how water is brought into	d public system
the building/house? 02 Electric p	ump
	gasoline driven pump
05 Windmill	Saportine attrem homb
06 Artesian p	ressure
07 Gravity fl	
08 Hand carri	
O9 Hauled	
-8 Don't know	
Other (spe	cify)



	household water supply is on a system with 14 or fewer people. Determine the following informati interview. Explain to the respondent that you w him/her to show them to you. If physical inspec	rions apply only to those households where the major or fewer household connections or which serves 25 or ation by physical inspection at the termination of the would like to look at the water facilities and ask pection of the water facilities is not possible, then k the Respondent the physical inspection questions.				
C-24	Does the water source have an acceptable cover for intrusion protection?	1	Unacceptable Acceptable Don't know (explain)			
 C-25	Is the water source adeuqately maintained?	0	No Yes Don't know (explain)			
C-26	Measure the distance between the center of the well head, cistern, or point of water withdrawal, from spring, lake, etc., to the possible source of contamination.		(Specify distance and unit used in determine distancefeet, yards, meters, etc.)  Sewage disposal system  Oil or gasoline tank  Animal waste	ing		
			Surface water contamination  Industrial waste  Agricultural fertilizer or runoff  Other (specify)			
	INTERVIEWER INSTRUCTION: If the major household wa	ter supply	Not applicable  is a well, continue; otherwise go to Section	n D.		
C-27	Is the cover of the well splash-proof?	0	No Yes Don't know (explain)			
			Not applicable			

			C-8 .
C-28	Does the well have a pitless adapter or a buried seal?	o 🔲	Neither
	or a buried sear:	1	Pitless adapter
		2	Buried seal
		. 🗀	Don't know (explain)
		9 🗖	Not applicable
			wor abbitcante
C-29	Which of these best describes the well?	1	It is in the open, uncovered
		2	It is in the open, but protected from the elements
		3	It is in a pit with a water-tight cover
		4 □	It is in a pit with a cover which is not water-tight
		5 🗍	It is in a pit with no cover
		. □	Don't know (explain)
		. $\square$	N 14 11.
		9 📙	Not applicable
			Other (specify)
C-30	Which of these best describes how	ı 🗖	No drain
	the pit drains?	2	Drains to open ground
		3 □	Runs to a drainline or sewer line
		ᆜ	
		* L	Don't know (explain)
l		9 🔲	Not applicable
			Other (specify)
<b></b>		*****	
Time	Section C completed		
]			
1			
1			·

	INTERVIEW any pecul	I INSTRUCTION: liarities or sp	Write a brie ecial circums	f description tances that w	of the intervould assist in	riew situation, understanding	the int	tervier, terviev.	and
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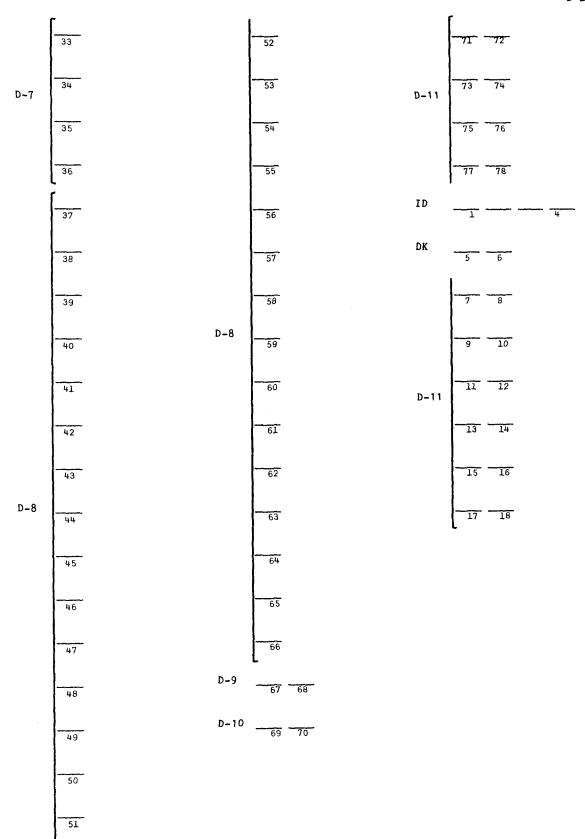
## SECTION D

## SUPPLY SYSTEM

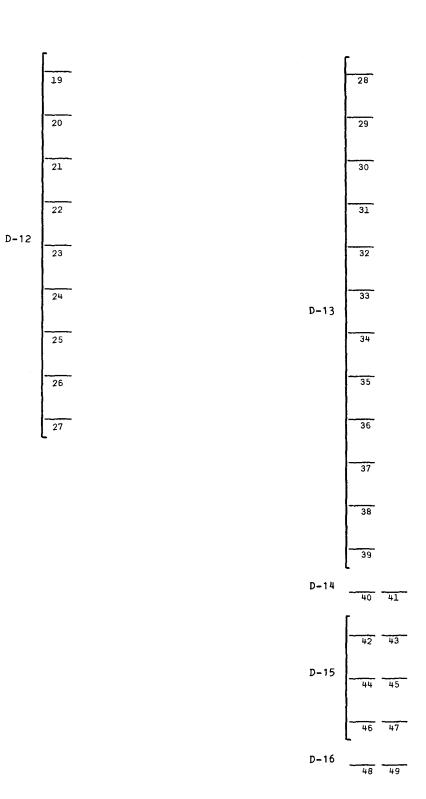
Time	of Starting Section D	Interviewer Name
Date	of Interview/	Interviewer Number
INTER	RVIEWER INSTRUCTION: This section applies to households provides water to two or more households). It is to ciently familiar with various aspects of the water su fied respondents include the owner, manager, or opera be the superintendent or someone familiar with the op only one person. If several people are present, get	be administered only to an individual who is suffi- apply system. In the case of private systems, quali- ator. If the system is public, the respondent must be eration of the system. You are not restricted to
	Name of the supply system:	
	Address:  Date of interview:	Q A-96 Item A.
	Date of Interview.	
SYSTI	EM SIZE	
D-1	First, I would like to ask about some general system characteristics such as size. Approximately how many service connections are on the system?	(# of connections)
D- 2	About what apparation of the connections	••••••
υ- z	About what proportion of the connections is metered?	(Percent or number)  Don't know
D-3	Were representation of lines and to the	
υ- <b>3</b>	How many miles of lines are in the system?	(Miles) Don't know
D-4	What is the average daily usage?	
پ- <b>ب</b>	What is the average daily douge.	(Gallons per day)  Don't know
D-5	What is the maximum daily amount of	
כ –ע	What is the maximum daily amount of water the system can supply?	(Gallons per day)
:		Don't know
WATER	R SOURCES	
D-6	(Show card 31) From which of the following types of sources does the system obtain water?	Ground water Surface water
		Water is purchased
İ		Don't know
ı		_

D-7	Do you ever have any difficulties acquiring water from the source(s)?		No (Go to Q D-9)  Yes (Ground water)  Yes (Surface water)  Yes (Water purchased)
D-8	What were the difficulties?		Water was unavailable (Name source)  Weather problems (drought, flooding) (Name source)  Loss of a supply (Name source)  Contamination (Name source)  Lack of money (Name source)  Other (Specify the difficulty and the source)
BREAK	DOWNS		
D-9	In the past year, have any breakdowns 00 occurred in the system? How many?		No (Go to Q D-12)  Yes (# of breakdowns)
D-10	Of these breakdowns, how many have resulted in an actual loss of service to water users?	• • • • • •	(# of breakdowns)
D-11	What were the causes of all the breakdowns?		Pump breakdown Ruptured lines Treatment failure Drought Flooding Vandalism Other (specify)

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WATER TREATMENT	נ-ע
D-12 Does the water that the system supplies receive any treatment, and if so, what types?	Yes (Filtration)
	Yes (Chlorination)
	Yes (Softening)
	Yes (Fluoridation)
	Yes (Other) (Specify)
	Don't know (Go to Q D-14)
D. 12. When have a finance man dead and a man	None
D-13 What types of treatment devices are installed and presently operating in	Oxidation filter
the system?	Activated carbon filter
	Softener
	Chlorinator Fluoridator
	<u> </u>
	Settling tank  Chemical feeder unit (phosphate, lime, carbon,
	etc.)
	Identify chemical dispensed
	Don't know
	Other (specify)
OPERATORS	
D-14 How many people work at operating this system's equipment?	(Number)
D-15 How many of these are volunteers, paid	(Number)
part-time employees, or paid full-time employees?	Volunteers
	Paid part-time
	Paid full-time
	Don't know
D-16 About how many man-days per month does it normally take to operate the system?	(Number of man-days)
1	



	How many operators have received special training or schooling in the operation of the system's equipment? (Training other than that received on the job, such as state training, equipment manufacturer's workshops, Cooperative Extension, etc.)		(# of operators) Don't know
SYSTE	M ALTERATIONS		
D-18	Have there been any major alterations since the system was constructed? That is, have there been any changes which substantially increased the system's capacity or which improved the quality of the water it provides?	0	No(INTERVIEWER INSTRUCTION: Read the following: The next questions ask about the Yes original construction of the system Don't know
D-19	What facilities were installed then?		Service lines Treatment facilities Storage tank Pump Don't know Other (specify)
D-20	How long has it been since this work was completed?		(# of years)
	How much did it cost?		\$ Don't know (Go to Q D-34)
D-22	What portion of the cost was financed through government loans?		\$ or % (If 0, go to Q D-26)  Don't know (Go to Q D-26)



D-23	What agencies provided the loans?		D-5 FmHA (Farmers' Home Administration)
			Z years
D-24	What is the interest rate?		EPA (Environmental Protection Agency)
D 05	The decide and an arrangement and add		X
<b>υ-2</b> 5	What is the repayment period?		HUD (Housing and Urban Development)
			Zyears
			Department of Defense
			Zyears
			EDA (Economic Development Administration)
			7years
			CSA (Community Services Administration)
			7years
			State agency (name)
			Zyears
			Regional agency (name)
			years Don't know Other (specify)
			Zyears
	What portion of the cost was financed through bonds?		\$ Or Z (If 0, go to Q D-29)
		<u></u>	Don't know (Go to Q D-29)
D-27	What is the interest rate?		(percent)
D-28	What is the repayment period?		(f of years)
D-29		П	\$ or % (If 0, go to Q D-31)  Don't know (Go to Q D-31)
		ل	

	74		13 15	-	<del>-4950</del> -		
	75		16 18	-	51 52		
D-23	76		19 21		53 54		
	77		22 24		55 56		
	78		25 27		57 58		
!	79	D-24	D-24	D-24	28 30	D-25	59 60
ID	1 4		31 33		61 62		
DK	5 6		34 36		63 64		
	7		37 39		65 66		
	8				40 42		67 68
D-23	9		43 45		69 70		
<b>D</b> - <b>L</b> 3	10		46 48		71 72		
	11		•	D-26	73 75		
	12			D-27	76 78		
	·			ID	<del></del>		
				DK	5 6		
				D-28	7 8		
				D-29	9 11		

			D-6
D-30	What agencies provided the grants?		FmHA (Farmers' Home Administration)
			EPA (Environmental Protection Agency)
Ì			HUD (Housing and Urban Development)
			Department of Defense
		$\overline{\Box}$	Bureau of Reclamation
		$\Box$	Corps of Engineers
		H	EDA (Economic Development Administration)
			CSA (Community Services Administration)
			State Agency
			Regional Agency
		님	
		닐	Don't know
		Ш	Other (specify)
D-31	What portion of the cost was financed		\$ or % (If 0, go to
1	through commercial loans?		\$ or % (If 0, go to Q D-33)
1			Don't knew (Go to Q D-33)
D 22		•••••	/
D-32	What was the interest rate?		(percent)
D-33	How much of the cost was financed		\$ or %
	through reserve funds of the system?		Don't know
L			
SYSTE	M FINANCES		
	What was the total annual revenue of	<del></del>	\$(If 0, go to Q D-37)
D-34	the system for last year?		Don't know (Go to Q D-37)
<b> </b>	***************************************		DOIL C KING (GO SO & D-O/)
D-35	What portion or how much of the revenue		\$ or %
	is allocated to system operating and maintenance costs?		Don't know
	••••••		
D-36	What portion or how much of the revenue is allocated to debt retirement?		\$ or %
	To deliberate to debt retailment.		Don't know
BACTE	RIOLOGICAL WATER QUALITY TESTS		
D-37		o 🔲	No (Go to Q D-41)
	this system's water?	1	Yes
	1	。一	Don't know (Go to Q D-41)
		لا	
7			

	12	D-36	45	47
	13	D-37	48	
	14			
	15			
	16			
	17			
D-30	18			
	19			
	21			
	22			
	23			
	24			
	25			
D-31	26 28			
D-32	29 31			
D-33	32 34			
D-34	35	 	41	
D-35	42 44			

			D-7
D-38	Who usually does the bacteriological tests?	01	Private lab
		02	System lab
		03	Public Health Department
		04	State Environmental Department
		05	Federal lab
		-8	Don't know
			Other (specify)
D-39	How often are the tests performed?	ı Ц	Once a year or less
		2	At least once every six months
		3	At least once every three months
		4	At least once every month
		5	At least once a week
		6	At least once a day
		8	Don't know
			Not applicable
D-40	Of the tests performed during the past year or of the last twelve tests.		(Total # of tests in the last year if fewer than 12)
	whichever is fewer, how many had accepteble results?		(Number of tests which passed)
L			
CHEMI	CAL WATER QUALITY TESTS		
D-41	Are chemical water quality tests	0	No (Go to end of interview)
	performed on the system's water?	1 🔲	Yes
		8	Don't know (Go to end of interview)
D-42	When was the last test performed?		/(date)day yr
İ			
1			
1			
			I

(Show card 32) What were the results of the last test for each of these constituents?	Specific conductance
	· Nitrate
	Sulfate
	Calcium
	Magnesium
	Iron
	Manganese
	Sodium
	• Lead
	Turbidity
	Color
	Arsenic
	Cadmium
	· Chromium
	· Mercury
	Selenium
	Selenium Silver
INTERVIEWER INSTRUCTION: Thank the Respondent(s) the able to provide information on all of the questions,	Silver  Fluoride  en excuse yourself. If the Respondent(s) were not
able to provide information on all of the questions, ledgeable about the system to complete the interview	Silver  Fluoride  en excuse yourself. If the Respondent(s) were not
INTERVIEWER INSTRUCTION: Thank the Respondent(s) the able to provide information on all of the questions, ledgeable about the system to complete the interview.  Section D completed	Silver  Fluoride  en excuse yourself. If the Respondent(s) were not
able to provide information on all of the questions, ledgeable about the system to complete the interview	Silver  Fluoride  en excuse yourself. If the Respondent(s) were not
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able to provide information on all of the questions, ledgeable about the system to complete the interview	Silver  Fluoride  en excuse yourself. If the Respondent(s) were not

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	64 65				

INTERVIEW I	INSTRUCTION: ies or special	Write a brief Leircumetance	description s that would	of the interest in	erview situa understandir	tion, the ing the inter	iterview, and view.	l arny
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## SECTION E

## NON-INTERVIEW DISPOSITION

Time of Starting Section E		Interviewer Name
Date of Interview/_day /yr		Interviewer Number
E-l Which of these categories best portrays the reason an interview was not obtained for this household	01	Household unit was not found. (Listing of units indicated a household unit was present when it wasn't.
		INTERVIEWER INSTRUCTION: Contact supervisor for instructions.
	02	Household unit no longer exists. (Unit was torn down, burned, washed away by high water, etc.)
	03	Household is inaccessible (Natural catastrophe, hazardous conditions, etc., prevent interviewing)
	04	Address is not a household unit. (Commercial property, religious, civic, fraternal meeting place, etc.)
		INTERVIEWER INSTRUCTION: Contact supervisor for instructions.
	05	Household is not eligible for inclusion in this study. (Located on a military reservation, in a city of over 2500, or is an institutional setting.)
		INTERVIEWER INSTRUCTION: Contact supervisor for instructions.
	06	Household unit vacant.
	07	No one at home. (Household unit appears to be lived in but no one has been contacted after three calls.)
	08	Respondent is absent. (Someone is at the house-hold but eligible respondent has been absent on each of the three calls.)
	09	Respondents are incapable or unable to respond. (Respondent is illiterate, doesn't speak the language and no interpreter is available. Respondent is drunk on all calls. Acute illness prevents respondent from being interviewed.)
	10	Respondent refused to be interviewed.
		No interview obtained for a reason other than any of the above (explain)
ł		
ESTIMATED DEMOGRAPHIC CHARACTERISTICS		
E-2 Do you think the probable respondent owns or rents the household unit?	1 🔲	Owns
	2 📙	Rents
	8	Don't know
		Other (specify)



_			E-2
E-3	What is the number of years the probable respondent has lived in the	1 5 years or less	
	household unit?	2 6 - 10 years	
		3 11 - 20 years	
		4 21 or more years	
		8 Don't know	
E-4	What is the number of people living	1  1	
	in the household unit?	2 🗖 2	
		3 7 3 - 4	
		<b>└</b>	
		5 7 - 10	
		6 11 or more	
		8 Don't know	
	• • • • • • • • • • • • • • • • • • • •		
E-5	Is the probable respondent currently living with spouse?	0 No	
		1 Yes	
		8 Don't know	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
E-6	What is the sex of the probable respondent?	1 Male	
	respondent.	2 Female	
		8 Don't know	
E-7	What is the age of the probable	l Under 18	
	respondent?	2 18 - 29	
		3 30 - 44	
		4 🔲 45 - 64	
		s <b>[</b> 65 +	
		8 Don't know	
₽_0	What is the employment status of	1 Head working	*************************
E-8	the probable respondent?	2 Head going to school	
		3 Head keeping house	
l		4 Head retired	
		5 Head unemployed	
		8 Don't know	
	•••••••••••••••••••••••••••••••••••••••		
E-9	What is the occupation of the probable respondent?		(Job title)
			(
1			(Duties)
}			(
1		8 Don't know	
•			

- E-3
- E-4
- E-5
- E-6
- E-7
- E-8
- E-9

				E-3 .
E-10	What is the ethnicity of the probable respondent?	1		White (Not of Hispanic origin)
		2		Black (Not of Hispanic origin)
		3		Hispanic
		4		American Indian or Alaskan Native
		5		Asian or Pacific Islander
		8		Don't know
E-11	What is the educational attainment	ı		Grade school (1 - 6 years)
	of the probable respondent?	2		Junior high (7 - 9)
		3	H	High school (10 - 12)
		4	H	College
		8	$\exists$	Don't know
ļ			ــا	
E-12	What is the total income of the probable respondent's household?	01		0 - 2999 dollars
	probable respondent b nouseneze.	02		3000 - 5999 dollars
		03		6000 - 8999 dollars
		04		9000 - 11999 dollars
		05		12000 - 14999 dollars
		06		15000 - 17999 dollars
		07		18000 - 20999 dollars
		80		21000 - 23999 dollars
		09		24000 - 26999 dollars
		10		27000 - 29999 dollars
		11		30000 + dollars
		-8		Don't know
				######################################
E-13	From which of the following does this household unit get its drinking water?	01	U	Water system with 15 or more households or that serves more than 25 people
		02		Well
İ		03		Spring
		04		Surface water (pond, lake, river, stream)
		05		Cistern
l		06		Hauled
		07		Purchased, bottled
		-8		Don't know
1				
l				

INTERVIEWER .	INSTRUCTION: If a comment	Note below	any detail	ed comment	s which wo	uld explai	n or clari	fy the no	n-interview
situation.	If a comment	refers to a	: specific q	uestion in	section E	, note the		rumper.	
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