APPENDICES

- A. Step-by-Step Sample Selection in Arc GIS
- B. STATA batch file for sampling households from a municipal parcel database
- C. Step by step procedure for populating MS Access database with block sample data
- D. Block Maps for a Citywide Disaster
- E. Route Scheduling for a Rapid Epidemiologic Assessment
- F. Excel Spreadsheet for Designing a Daily Schedule
- G. Step-by-Step Guide for Resampling Households
- H. Training Materials
- I. Data Dictionary for RNA Questionnaire
- J. STATA batch file for statistical analysis of 30 by 7 cluster sample
- K. EOC Presentation



Appendix A. Step-by-Step Procedures for Sample Selection Procedures

A. Spatial Join of Parcel Address Points and Census Blocks (ArcGIS 9.2)

In ArcGIS

- 1) Add census polygon layer: U CoB_y2kblockpoly layer
- 2) Add parcel point address layer: U_LA_CoB_addr_ppop_pt
- 3) Highlight parcel point address layer and join the census layer to it
- 4) Name the output file "blks address land use" in the sample selection folder
- 5) Save file as cluster sample.mxd
- B. Universe of Blocks and Address Points for Sample Selection

In Excel

- 6) Open the "blks address land use.dbf" file (created in step 4) in Excel
- 7) Save the fields for

location ID = LOCATION_I
parcel ID = PARCEL_ID
full address with apt = FULL_ADDR
use code = USE_CODE
use description = USE_DESC
block fips = BLOCKFIPS

8) Save files as "blks address land use.txt"

In Word with run cluster sample.do

9) Select census tracts of interest or do nothing for citywide selection

In Stata,

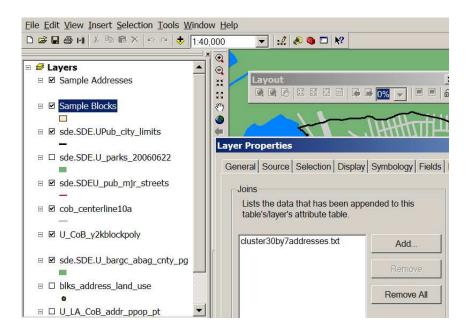
- 10) execute run cluster_sample.do (statistical output is in cluster_sample2008.doc and sample blocks with households to sample are in "cluster30by7addresses.txt")
- D. Visualize Output and Create Maps for Team Assignments (In ArcGIS 9.3)
- 11. Add base map elements to map in step 1 (saved in step 8)

Streets: cob centerline10a

Major Streets: sde.SDEU_pub_mjr_streets.shp City/County areas: sde.SDE.U_bargc_abag_cnty_pg City boundaries: sde.SDE.UPub_city_limits.shp

12. to visualize sample blocks, join census blocks U_CoB_y2kblockpoly to sample blocks (cluster30by7addresses.txt) on <u>block fips</u>; label with the blockID number





13. to visualize sample addresses/households, join census blocks "blks_address_land_use" to sample blocks (cluster30by7addresses.txt) on <u>location ID</u>; label with full_address

To generate an overall map of sample blocks

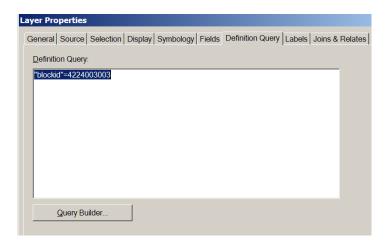
14. Use entire city as the full extent. Turn off labels for centerline and sample address points, turn on labels for major streets, and save map as cluster_sample.mxd

To generate maps of individual blocks to assign to survey teams

- 15. Create copy of cluster_sample.mxd
- 16. Highlight Sample Blocks layer, copy and paste
- 17. Change layer name to block ID, and click layer on and other block layers off
- 18. Move layer to below sample block layer
- 19. Click properties, Definition Query tab: "blockid"=blockidnumber

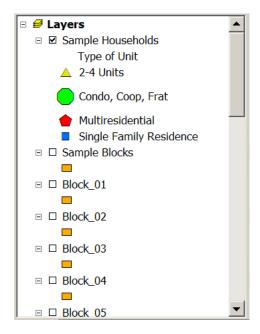
blockid numbers are listed in STATA output cluster_sample.doc





- 20. Change block label using expression "Block " &[cluster_no]
- 21. Set map scale to 1:40,000 to locate block
- 22. Use magnifier tool , draw a rectangle around sample block and include major street
- 23. Adjust map scale to 1:3,000

Note: some address names and parcel address points overlap and will not be shown on map; Interview must have a complete list of parcel addresses.



- 24. Change title of map to match block number
- 25. Cut and paste (from Excel cluster30by7addresses.xls) into map document
- 26. Print to pdf file (Block_01.pdf)



27. repeat steps 16-26 for rest of 30 blocks

1 "blockid" = 4211001006 2 "blockid" = 4212004004 3 "blockid" = 4213003008 4 "blockid" = 4215002001 5 "blockid" = 4216002003 6 "blockid" = 4217001007 7 "blockid" = 4218001003 8 "blockid" = 4219002010 9 "blockid" = 4221001004 10 "blockid" = 4222002002 11 "blockid" = 4223001009 12 "blockid" = 4224001003 13 "blockid" = 4224003003 14 "blockid" = 4225003001 15 "blockid" = 4227003004 16 "blockid" = 4228003008 17 "blockid" = 4230001000 18 "blockid" = 4230003000 19 "blockid" = 4231002003 20 "blockid" = 4232002001 21 "blockid" = 4233002015 22 "blockid" = 4234003002 23 "blockid" = 4235001007 24 "blockid" = 4236011008 25 "blockid" = 4236021002 26 "blockid" = 4236022002 27 "blockid" = 4237002013 28 "blockid" = 4238003008 29 "blockid" = 4239021007 30 "blockid" = 4240013008



B. STATA batch file for sampling households from a municipal parcel database

```
* cluster sample2008.do - 6/11/07 - Neil Maizlish
* Analyzes Parcel and address points, Berkeley, 2006
* and selects a cluster sample of 30 Berkeley blocks and 7 residential
housing
* units/block (N=210)
* Output is comma delimited file of FIPS block IDs, addresses, and housing
* description for housing units included in sample.
* Clusters (blocks) are selected PPS using a systematic sample and housing
units
* within blocks are chosen with equal probability (simple random sample)
* Blocks with 0 residential housing units are excluded
* user can select by approximate city council district(s) or census tract(s)
* Data sources for sample frame is address points of parcels for City/County
* (tax) assessor for 2006
program define title1
 display "PHD" col(40) "Analysis Date: " "$S DATE" newline
display "Parcels, Address Points, and Cluster Sampling, Berkeley, 6/30/2008"
end
set more off
set memory 10M
* set memory 768000
set matsize 800
set logtype text
* Log of data transformations
log using
C:\COB\EmergencyPrep\RapidEpi\SampleSelection\cluster_sample2008.doc, replace
title1
log off
* You must have already spatially joined the parcel database with the Census
* 2000 blocks database, and exported the file
* 1) Add census polygon layer: U CoB y2kblockpoly layer
* 2) Add parcel point address layer: U LA CoB addr ppop pt
* 3) Highlight parcel point address layer and join the census layer to it
* 4) name the output file "blks address land use" in the sample selection
folder
* 5) Open the "blks address land use.dbf" file in Excel
* 6) Save the fields for
    location ID = LOCATION I
   parcel ID = PARCEL ID
    full address with apt = FULL ADDR
   use code = USE CODE
   use description = USE DESC
    block fips = BLOCKFIPS
* 7) Save files as "blks address land use.txt"
```



* read address points with Block fips identifier

```
insheet using
C:\COB\EmergencyPrep\RapidEpi\SampleSelection\blks address land use.txt,
format %20.0g blockfips
* Harmonize names
rename location i loc id in
rename full addr f add
rename parcel id prcl id in
* total number of locator ids
count
* keep addresses with residential use codes
keep if (use code == 7) | (use code >=11 & use code <=17) | (use code >=19 &
use code \langle =29\rangle | (use code \rangle = 71 & use code\langle =79\rangle | (use code== 87\rangle)
* Last 10 digits of FIPS
replace blockfips = blockfips - 6001000000000
sort blockfips
save blks address land use.dta, replace
count
log on
tab1 use code
log off
collapse (count) loc id in, by(blockfips)
* Prepare file for merging
rename loc id in hu cob
sort blockfips
save block fips cob.dta, replace
* Create Census tract
generate ct = blockfips/1000000
replace ct = round(ct, 0.01)
* Select a Cluster Sample Proportional to Size (Number of Housing Units)
* using COB Address Points for Housing Units
* Drop blocks with no or missing number of residential housing units
* See residential use codes above
drop if hu cob == 0 \mid \text{hu cob} == .
* Select Geographic Area of Interest
* By A) Approximate Council District or B) Specific Census Tract(s)
* Create districts from census tracts (approximate)
* District 1
generate district = 1 if ct >= 4219 & ct <= 4223</pre>
* District 2
replace district = 2 if ct >= 4231 \& ct <= 4233 | round(ct, .01) == 4240.02
* District 3
replace district = 3 if ct == 4234 | ct == 4235 | round(ct,.01)==4240.01 |
round(ct,.01) == 4239.01
 District 4
```



```
replace district = 4 if ct == 4224 | ct == 4230 | ct == 4229
* District 5
replace district = 5 if ct >=4212 & ct <=4214 | ct==4217 | ct==4218
* District 6
replace district = 6 if ct ==4211 | ct ==4215 | ct==4216 | ct==4225
* District 7
replace district = 7 if ct ==4225 | ct ==4226 | ct==4228 | ct==4225 |
round(ct,.01) = 4236.02 \mid round(ct,.01) = 4236.01 \mid round(ct,.01) = 4239.02
* District 8
replace district = 8 if ct ==4226 | ct ==4227 | ct==4237 | ct==4238
* A) By District
              * Include district number in following list to select desired district(s)
keep if inlist(district, 1, 2, 3, 4, 5, 6, 7, 8) == 1
* OR (not both)
* B) By Census Tract
****************
* Place an asterisk in column 1 of the census tract(s) to keep
* Asterisk all to select entire City of Berkeley
* drop if ct == 4211
* drop if ct == 4212
* drop if ct == 4213
* drop if ct == 4214
* drop if ct == 4215
* drop if ct == 4216
* drop if ct == 4217
* drop if ct == 4218
* drop if ct == 4219
* drop if ct == 4220
* drop if ct == 4221
* drop if ct == 4222
* drop if ct == 4223
* drop if ct == 4224
* drop if ct == 4225
* drop if ct == 4226
* drop if ct == 4227
* drop if ct == 4228
* drop if ct == 4229
* drop if ct == 4230
* drop if ct == 4231
* drop if ct == 4232
* drop if ct == 4233
* drop if ct == 4234
* drop if ct == 4235
* drop if round(ct,.01) == 4236.01
* drop if round(ct,.01) == 4236.02
* drop if ct == 4237
* drop if ct == 4238
* drop if round(ct,.01) == 4239.01
* drop if round(ct,.01) == 4239.02
* drop if round(ct,.01) == 4240.01
* drop if round(ct,.01) == 4240.02
```



```
* Create series ranges: hu cum ll (lower limit) hu cum (upper limit)
sort blockfips
generate blockid = n
* Cumulative total of housing units
gen hu cum = sum(hu cob)
sort blockid
save blockfips.dta, replace
* Add 1 record
keep blockid hu cum
keep if blockid == 1
* create lower limit
replace blockid = 0
replace hu cum = 0
append using blockfips.dta
replace blockid = blockid + 1
rename hu cum hu cum ll
keep blockid hu cum ll
* merge back
sort blockid
merge blockid using blockfips.dta
drop merge
* Drop last record
drop if _n == _N
* Establish the sampling interval and housing unit sample weight
sum hu cob
generate hu smpl wt = r(sum)/hu cob
generate samp int = int(r(sum)/30)
* Establish the random start
generate randno =uniform()
generate randstart = randno*samp int if blockid==1
replace randstart = 0 if randstart == .
sum randstart
replace randstart = int(r(sum))
generate series no1 = randstart
generate series no2 = randstart + 1*samp int
generate series no3 = randstart + 2*samp int
generate series no4 = randstart + 3*samp int
generate series no5 = randstart + 4*samp int
generate series no6 = randstart + 5*samp int
generate series no7 = randstart + 6*samp int
generate series no8 = randstart + 7*samp int
generate series no9 = randstart + 8*samp int
generate series no10 = randstart + 9*samp int
generate series nol1 = randstart + 10*samp int
generate series_no12 = randstart + 11*samp_int
```



```
generate series no13 = randstart + 12*samp int
generate series no14 = randstart + 13*samp int
generate series_no15 = randstart + 14*samp int
generate series no16 = randstart + 15*samp int
generate series no17 = randstart + 16*samp int
generate series no18 = randstart + 17*samp int
generate series no19 = randstart + 18*samp int
generate series no20 = randstart + 19*samp int
generate series_no21 = randstart + 20*samp int
generate series no22 = randstart + 21*samp_int
generate series no23 = randstart + 22*samp int
generate series no24 = randstart + 23*samp int
generate series no25 = randstart + 24*samp int
generate series no26 = randstart + 25*samp int
generate series no27 = randstart + 26*samp int
generate series no28 = randstart + 27*samp int
generate series no29 = randstart + 28*samp int
generate series no30 = randstart + 29*samp int
generate sample cluster = 1 if series no1 > hu cum ll & series no1 <= hu cum
replace sample cluster = 1 if series no2 > hu cum ll & series no2 <= hu cum
replace sample_cluster = 1 if series_no3 > hu_cum_ll & series_no3 <= hu_cum
replace sample_cluster = 1 if series_no4 > hu_cum_ll & series_no4 <= hu_cum
replace sample cluster = 1 if series no5 > hu cum ll & series no5 <= hu cum
replace sample cluster = 1 if series no6 > hu cum ll & series no6 <= hu cum
replace sample cluster = 1 if series no7 > hu cum ll & series no7 <= hu cum
replace sample cluster = 1 if series no8 > hu cum 11 & series no8 <= hu cum
replace sample cluster = 1 if series no9 > hu cum ll & series no9 <= hu cum
replace sample_cluster = 1 if series_no10 > hu_cum_ll & series_no10<= hu cum</pre>
replace sample_cluster = 1 if series_no11 > hu_cum_ll & series_no11<= hu_cum</pre>
replace sample_cluster = 1 if series_no12 > hu_cum_ll & series_no12<= hu_cum</pre>
replace sample cluster = 1 if series no13 > hu cum 11 & series no13<= hu cum
replace sample cluster = 1 if series no14 > hu cum 11 & series no14<= hu cum
replace sample cluster = 1 if series no15 > hu cum ll & series no15<= hu cum
replace sample cluster = 1 if series no16 > hu cum ll & series no16<= hu cum
replace sample cluster = 1 if series no17 > hu cum ll & series no17<= hu cum
replace sample cluster = 1 if series no18 > hu cum ll & series no18<= hu cum
replace sample cluster = 1 if series no19 > hu cum ll & series no19<= hu cum
replace sample cluster = 1 if series no20 > hu cum 11 & series no20<= hu cum
replace sample cluster = 1 if series no21 > hu cum 11 & series no21<= hu cum
replace sample cluster = 1 if series no22 > hu cum 11 & series no22<= hu cum
replace sample cluster = 1 if series no23 > hu cum 11 & series no23<= hu cum
replace sample_cluster = 1 if series_no24 > hu_cum_11 & series_no24<= hu_cum
replace sample cluster = 1 if series no25 > hu cum 11 & series no25<= hu cum
replace sample cluster = 1 if series no26 > hu cum 11 & series no26<= hu cum
replace sample cluster = 1 if series no27 > hu cum 11 & series no27<= hu cum
replace sample cluster = 1 if series no28 > hu cum 11 & series no28<= hu cum
replace sample cluster = 1 if series no29 > hu cum ll & series no29 <= hu cum
replace sample_cluster = 1 if series_no30 > hu_cum_ll & series_no30<= hu_cum_</pre>
* Drop non-sampled blocks
drop if sample cluster ~=1
* Keep blocfips and number of housing units
keep blockfips hu cob hu smpl wt ct
sort blockfips
 outsheet using block cluster pps.txt, replace
```



```
log on
list blockfips hu cob
sum hu cob
disp r(sum)
log off
* Generate the cluster number (easier than blockfips) to identify selected
gen cluster no = n
* Identify sample addresspoints
joinby blockfips using blks address land use.dta
* Recode property use codes
generate use4cat = 4
replace use4cat = 1 if use code == 72 | use code == 77
replace use4cat = 2 if use code == 11
replace use4cat = 3 if (use code >= 21 & use code <= 27) | use code==12
label define use4label 1 "Multiresidential" 2 "Single Family Residence" 3 "2-
4 Units" 4 "Condo, Coop, Frat"
label values use4cat use4label
* List of All Address Points on Selected Blocks to use for Block Enumeration
* Sort list by street address
* Trim any leading or leaving blanks
replace f add = trim(f add)
* Create block with midpoint in street
generate charpos =strpos(f add," ") - 1
generate str6 streetno = substr(f add,1,charpos)
generate numberlength = length(streetno)
* First 10 characters of streetname to avoid apt numbers sorting last
generate str30 streetname = substr(f add,charpos+1,10)
* To preserve original sort order
save cluster all.dta, replace
sort cluster streetname streetno
* Create sequential number by cluster for all address points
by cluster: gen address no = n
outsheet cluster no address no f add use4cat loc_id_in blockfips using
cluster30by_all_addresses.txt, replace
clear
use cluster all.dta
* Select 7 housing units per cluster
sort cluster
by cluster: sample 7, count
```



```
format %20.0g blockid
generate str15 blockfips = "06001" + string(blockid,"%10.0f")
* List of Housing Units and Addresses to Include in Survey
sort cluster streetname streetno
* Create a sample household number
by cluster: generate sample no = n
* Create sample weights
************
generate double smple_wt = (1/30)*hu_smpl_wt*hu_cob/7
* Create an ID numbe rfor the questionnaire
generate id number = n
outsheet cluster no sample no f add use4cat use code hu cob blockid blockfips
smple wt id number using cluster30by7addresses.txt, replace
* Citywide variable
generate cob = 1
table cob, c(sum smple wt)
* Set PSU and Sample weight
svyset cluster no [pweight=smple wt]
log on
svy:total cob
svy:total cob, over(use code)
* Weighted proportions
svy: prop use_code
* Sample N
tab1 use code use desc
log off
* Erase temporary files
erase block fips cob.dta
erase blockfips.dta
erase blks address land use.dta
erase cluster all.dta
```



Appendix C. Step-by-Step Procedures for Creating an MS Access Database from the Cluster Sample Derived from the Parcel Database

In STATA

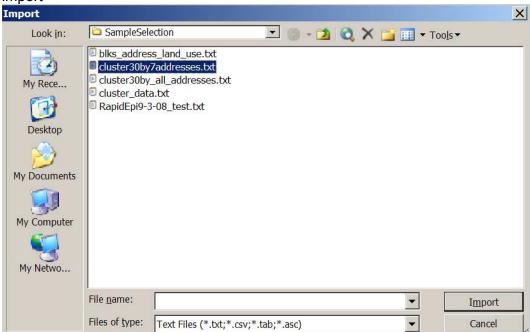
1. Create 30 by 7 (N=210) file named "cluster30by7addresses.txt" by doubleclicking cluster_sample.do

In MS Access

- 2. Open REA9-5-08.mdb
- 3. File>Get External Data>Import . . .

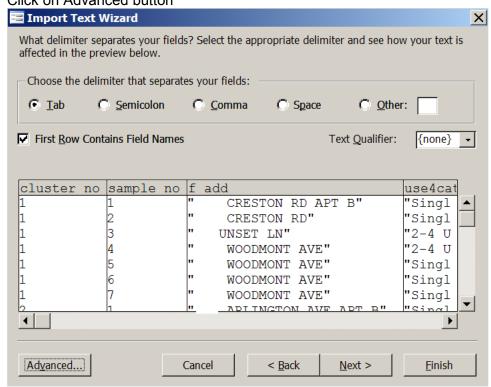


4. Use wizard to navigate to correct director and text file "cluster30by7addresses.txt", click import



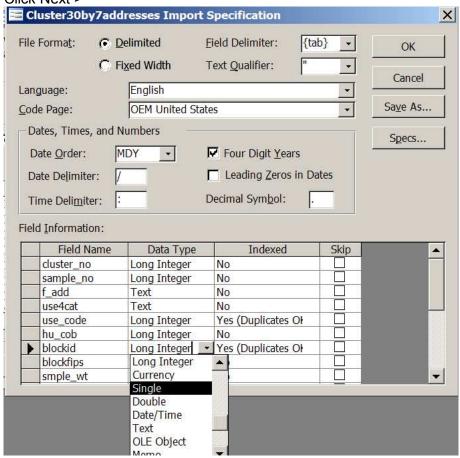


5. Use Import wizard, select Delimited>Next and Click on First Row Contains Field Names Select double quotes " as Text Qualifier Click on Advanced button



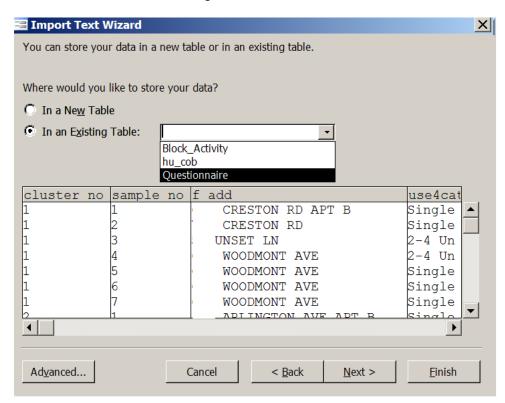


6. Change BlockID datatype to Single (precision number) Click OK to return to wizard above and Click Next >

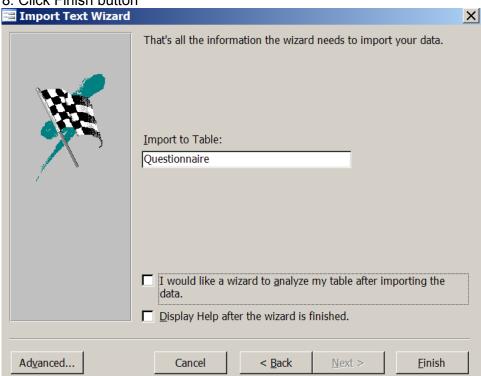




7. Store the data in an existing table called Questionnaire and click Next>

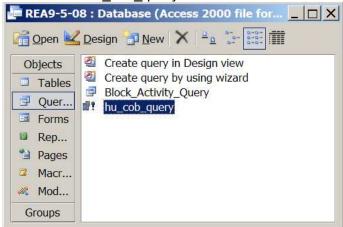


8. Click Finish button



9. Create a table so that the Block Activity Log will show the number of housing units from the parcel database

Double click hu_cob_query



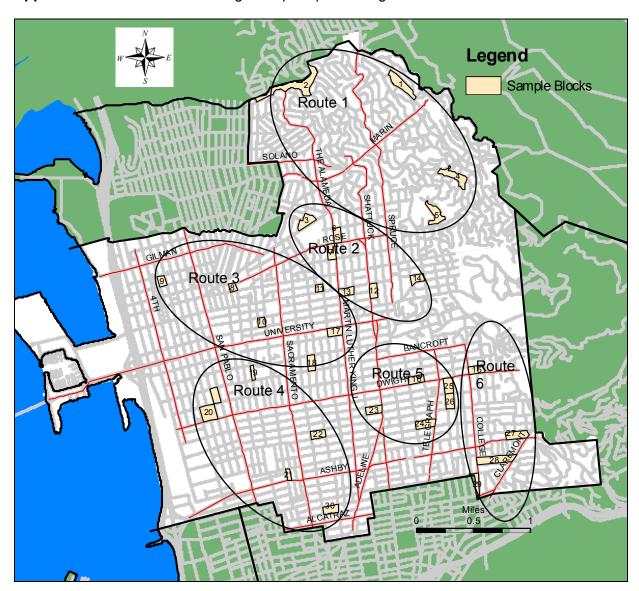


Appendix D. Block Maps for Citywide Disaster (N=30)

PDF files (not shown)



Appendix E. Six Route Scheduling of Rapid Epidemiologic Assessment





Legend Sample Blocks Route 1 Route 2 Route 3 BANCRO Route 4 1 Route 5 ASHBY

Appendix E. Five Route Scheduling of Rapid Epidemiologic Assessment



Appendix F. Excel Spreadsheet for Designing a Daily Schedule

	Α	В	C	D
1	Generic		Interviewers	
2	Start Time	Finish Time	Activity	Duration (min)
3	=TIME(8,0,	=A3+ TIME(0,D3,0)	Assemble	5
4	=B3	=A4+ TIME(0,D4,0)	Training and route assignments	40
5	=B4	=A5+ TIME(0,D5,0)	Travel to Block 1 with partner	30
6	=B5	=A6+ TIME(0,D6,0)	Enumerate households on block with partner	15
7	=B6	=A7+ TIME(0,D7,0)	Household 1-7 interviews and intra-block travel	24
8	=B7	=A8+ TIME(0,D8,0)	Travel to Block 2 with partner	15
9	=B8	=A9+ TIME(0,D9,0)	Enumerate households on block with partner	15
10	=B9	=A10+ TIME(0,D10,0)	Household 1-7 interviews and intra-block travel	24
11	=B10	=A11+ TIME(0,D11,0)	Travel to Block 3 with partner	15
12	=B11	=A12+ TIME(0,D12,0)	Enumerate households on block with partner	15
13	=B12	=A13+ TIME(0,D13,0)	Household 1-7 interviews and intra-block travel	24
14	=B13	=A14+ TIME(0,D14,0)	Travel to central meeting point, exchange data with supervisor	15
15	=B14	=A15+ TIME(0,D15,0)	Break for lunch	30
16	=B15	=A16+ TIME(0,D16,0)	Travel to Block 4 with partner	15
17	=B16	=A17+ TIME(0,D17,0)	Enumerate households on block with partner	15
18	=B17	=A18+ TIME(0,D18,0)	Household 1-7 interviews and intra-block travel	24
19	=B18	=A19+ TIME(0,D19,0)	Travel to Block 5 with partner	15
20	=B19	=A20+ TIME(0,D20,0)		15
21	=B20	=A21+ TIME(0,D21,0)	Household 1-7 interviews and intra-block travel	24
22	=B21	=A22+ TIME(0,D22,0)	Travel to Block 6 with partner	15
23	=B22	=A23+ TIME(0,D23,0)		15
24	=B23	=A24+ TIME(0,D24,0)	Household 1-7 interviews and intra-block travel	24
25	=B24	=A25+ TIME(0,D25,0)	Travel to central meeting point, exchange data with supervisor	15
26	=B25		Travel to Block 7 with partner	15
27	=B26	=A27+ TIME(0,D27,0)	Enumerate households on block with partner	15
28	=B27	=A28+ TIME(0,D28,0)	Household 1-7 interviews and intra-block travel	24
29	=B28	=A29+ TIME(0,D29,0)	Travel to Block 8 with partner	15
30	=B29	=A30+ TIME(0,D30,0)	Enumerate households on block with partner	15
31	=B30	=A31+ TIME(0,D31,0)	Household 1-7 interviews and intra-block travel	24
32	=B31	=A32+ TIME(0,D32,0)	Travel from Block 8 to HQ	30



Appendix G. Step-By-Step Guide For Re-sampling Households

- 1. Combine the lists of "All Households On Block" and "Additional Households".
- 2. Divide the total number of households by 7. If after dividing a whole number is not produced round up to the nearest whole number. This number is your sampling interval.
- 3. Pick a random start with-in the first sampling interval.
 - a. Use the list of random numbers (below) to pick the random start.
 - i. Use the first number you come to on the random number list that is within the sampling interval as the random start.
 - ii. The random number list has several columns start with the first column the first time you perform re-sampling and use the second column the second time you re-sample household.
 - b. After the selecting the random start select six more households adding the sampling interval to the random start and then adding the 2 times the sampling interval to the random start, then 3 times the sampling interval to the random start, and so on until you have sampled 7 households. For example if your sampling interval is 18 and your random start is 12 then the first sample household is 12 the second is 30, the third is 48 etc.



Appendix H. Training Materials

Just In Time Surveyor Training

Rapid Epidemiologic Assessment DRAFT 8/15/08



Public Health Division

1

Survey Purpose

 Rapid Epidemiologic Assessment is an approach to estimating a population's needs by surveying a statistical sample. In a 5 minute household visit using a standardized questionnaire, residents are asked about their health status and access to food, water, are other basic services. The results are statistically extrapolated to <u>all</u> households in the disaster area, and include the number of households and individuals with and without service.



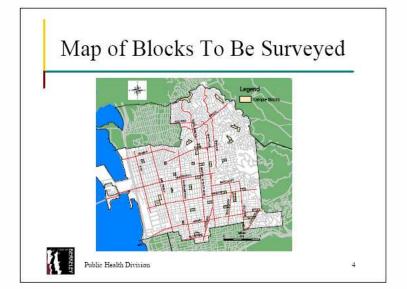
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Number of Surveys

- 210 surveys
- 30 blocks
- 7 households on each block







How To Find Households To Be Surveyed

- Use map to get to selected block
- Use block map and address list to find selected households



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5

What To Do Once You Reach The Selected Block

- Use the list of household on the block to check to make sure no new houses have been added. To do this count all the households on the block.
- If there is more than 10% difference between the number of households on the list and the actual number of households on the block you must resample the households to be surveyed using the following method.



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Re-Sampling Households To Survey

- Add the new households to the list of existing households.
- Divide this new number by 7, this will give you your sampling interval.
- Choose a random household to start with in the first sampling interval using the random number table on the Re-Sampling Guide.



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7

Reselecting Households To Survey Cont.

- Using the random start and the sampling interval select 7 households to survey.
- Reminder: Only do this if there is more than a 10% difference between the listed number of houses and the actual number of houses.



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If No One Is Home

- · Note the time and return later in the day.
- If on the second attempt no one is home, attempt to ask a neighbor for information on the survey about the selected household. DO NOT ask the neighbor for information about his/her house.
- If a neighbor is not available and the house appears to be completely destroyed complete the survey as appropriate.
- If a neighbor is not home and the house is intact note that you were unable to complete the survey.



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How To Handel Refusals

- · Too busy Offer to return later that day
- Won't know answers Reassure there are no right or wrong answers
- Not interested Try one attempt to encourage participation. Thank them & leave if refuses (note the refusal)
- Refused rudely Thank them & leave (note the refusal)
- Refuse to answer specific question leave question blank and go on with next question.



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What To Do When You Get To The Door

- · Introduce Yourself
- Why we are doing survey
- · How long it will take
- · What will be done with the info



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How To End The Survey

- · Thank the respondent
- If you have an incentive give it to them
- Ask if they have any questions



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How To Use The Handhelds



Public Health Division

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How To Use The Radios

- Turn on radio using volume dial.
- Set the channel to 3 (dial at the top of the radio with numbers on it).
- Hold down the large button on the left side when sending a message.
- When using keep the antenna away from your face, and hold radio 4 to 6 inches from your face.
- · Practice using radios.



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Practice

• Do a roll play of the survey with the person next to you.



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Stay Safe

- · Work in pairs
- Check for loose dogs; If there are loose dogs, skip and note
- If you feel in any way unsafe approaching a house or an apartment, skip and tell team leader
- Be conscious of your surroundings Use common sense



Public Health Division



Schedule

Time	Activity	Location
8:00	Meet	Office
8:05	Check supplies	Office
8:15	Review days schedule	
8:30	Depart for meeting point	
9:00	Depart for first block	
9:35	Begin enumerating block	Block
9:50	Begin re-sample process (if necessary)	Block
9:50	Survey Households	Block
10:25	Depart for next block	Block
11:00	Begin enumerating second block	Block
11:15	Begin re-sample process (if necessary)	Block
11:20	Survey Households	Block
11:55	Depart for meeting point	
12:45	Lunch	Meeting Point
12:45	Data check by team leader	Meeting Point
1:00	Meet with runner	Meeting Point



Public Health Division

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List of Items To Bring

- 1. Nametag
- 2. Handheld uploaded with surveys
- 3. Paper copies of surveys
- 4. Pencils
- 5. Clipboard
- 6. Map to the selected block
- 7. Map of houses on selected block
- 8. Map of closest disaster relief stations
- 9. List of existing households on the block
- 10. Cell phone/Radio
- 11. Contact information for other team members



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Rapid Epidemiologic Assessment Step-By-Step Guide

Today's Date:	Assigned Block:
Interviewer:	
Supervisor:	Supervisor's telephone #:

- 1. Arrive a designated block.
- 2. Begin enumeration of all households on the designated block.
 - a. If you are in a group divide the streets on the block, each person can enumerate half of the block.
 - b. Use the list of households titled "All Households On Block" to find houses on block.
 - c. If there is a household that is not on the list "All Households On Block" add the address of the house household to the form titled "Additional Households On Block".
 - d. When you have finished with your designated streets meet with the other member of your group.
 - e. Your team member should have his/her own "Additional Households On Block" form combine the two forms.
 - f. Number the additional households on the block consecutively starting with the one number greater than the number from the list "All Households On Block". For example, if the list of all households on the block ends at 45 begin numbering the additional households on the block at 46.
 - g. If the number of <u>additional</u> households on the block is greater than 10% of the number of households on the list "All Households On Block" follow step-by-step guide to re-sampling.
- 3. Begin survey of designated households.
 - a. If in a group of 2 divide designated households on the "Selected Households" list.
 - b. Survey households either using the handhelds or paper surveys.
 - i. If no one is home note the time and return at a later time to complete the survey.
 - ii. If on the second attempt no one is home ask a neighbor questions about the designated household.
 - c. Finish surveys and meet with other group member.
- 4. Check in with team leader using radios/cell phone.

Continue to your next assigned block and repeat steps 1-4.



Appendix I. Data Dictionary for Rapid Epidemiologic Assessment

1. Questionnaire

home_type What type of house is it (interviewer answers not respondent) Was this survey answered only by the interviewer? (i.e. house was distroyed and respondent is gone) N 1 1=Single family house, 2 family unit, 4= ≥6 units, 5 migrant camp, 6=mobile home N 1 1=yes 0=no 1=None, 2=Damaged/habitable, 3=Damaged/uninhabitable,		efinition	Туре	Width	n Data Validation
blockid Cluster or block ID number N 5 US Census FIPS smpl_wt Sample weight from PPS selection N 10 suv_number Survey number N 10 obligatory address Street address T 30 (populated from parcel database) svyr_id Surveyor ID N 5 hu_cob Number of households in cluster/block according to parcel database hu_new Number of households in cluster not in parcel database observed in field time_trv_to Ime to travel to the block from the public health department offices Time to travel back to the public health department offices from the block Time it takes to enoumerate all the houses on the block Survey is a resampled household N 1 1=yes 0=no nosurvey Unable to complete survey because? N 1 3=Single family house, 2 family unit, 4=≥6 units, 5 migrant camp, 6=mobile home Was this survey answered only by the interviewer? (i.e. house was distroyed and respondent is gone) N 1 1=yes 0=no 1=Single family house, 2 family unit, 4=≥6 units, 5 migrant camp, 6=mobile home N 1 1=yes 0=no 1=None, 2=Damaged/habitable, 3=Damaged/uninhabitable, 3=Damaged/u	svy Dat	ate of survey	D	10	mm/dd/ccyy
smpl_wt Sample weight from PPS selection N 10 (populated from parcel database) suv_number Survey number N 10 obligatory address Street address T 30 (populated from parcel database) svyr_id Surveyor ID N 5 Number of households in cluster/block according to parcel database N 4 continuous hu_new Number of households in cluster not in parcel database according to parcel database N 3 continuous hu_new Number of households in cluster not in parcel database observed in field N 3 continuous time_try_to Time to travel to the block from the public health department offices N 3 minutes time_enum Time to travel back to the public health department offices from the block N 3 minutes time_enum Time it takes to enoumerate all the houses on the block N 3 minutes resample Survey is a resampled household N 1 1=yes 0=no nosurvey Unable to complete survey because? N 1 1=yes 0=no home_type What type of house is it (interviewer answers not respondent) N 1 1=Single family house, 2 family house, 2 family house, 2 family unit, 4= ≥6 units, 6 migrant camp, 6=mobile home ans_type Was this survey answered only by the interviewer? N 1 1=yes 0=no interviewer? (i.e. house was distroyed and respondent is gone) N 1 1=yes 0=no <td< td=""><td>-</td><td></td><td>D</td><td>4</td><td>, , ,</td></td<>	-		D	4	, , ,
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thome dam. Damage to home? 1=None, 2=Damaged/habitable, 3=Damaged/uninhabitab	•	· · · · · · · · · · · · · · · · · · ·	Ν	1	1=yes 0=no
parrable,			N	1	· ·
destroyed					
people_pre Number of people in home pre disaster N 2 continuous	e_pre Nur	umber of people in home pre disaster	Ν	2	•
people_post Number of people in home post disaster N 2 continuous	e_post Nur	umber of people in home post disaster	Ν	2	
shelter Where people who did not stay at home stayed N 1 Shelter, 3=Hotel/Motel	r Wh	here people who did not stay at home stayed	N	1	
less_2years Number of people in home less than 2 N 2 0-9, >9	ovears Nur	imber of people in home less than 2	N	2	4=Neighbor's Home, 5=Other 0-9 >9
preg Number of people in home who are pregnant N 2 0-9, >9	-				•
more_64years Number of people in home over 64 N 2 0-9, >9					
run_water Running water? N 1 1=yes 0=no					
water_source Where they get water from N 1 1=well 2=bottle 3=public 4=none		-	N	1	1=well 2=bottle 3=public
generator Have they used a generator? N 1 1=yes 0=no	ator Ha	ave they used a generator?	Ν	1	



Name	Definition	Туре	Widtl	h Data Validation
gen_loc	Where the generator is located	N	1	1=indoor 2=garage/shed 3=outside 4=carport 5=other
co_alarm	Do they have functioning co alarm	Ν	1	1=yes 0=no
toilet_work	Does the indoor toilet work	Ν	1	1=yes 0=no
toilet_access	Do they have access to a toilet that works	Ν	1	1=yes 0=no
telephone	Do they have a working telephone	Ν	1	1=yes 0=no
transport	Do they have transportation	Ν	1	1=yes 0=no
radio_work	Do they have working radio	Ν	1	1=yes 0=no
media_access	Do they have access to the news	Ν	1	1=yes 0=no
gas_off	Has the gas been turned off to the house	Ν	1	1=yes 0=no
trash_disp	Are they having difficulty with trash disposal	Ν	1	1=yes 0=no
injured	Was anyone injured	Ν	1	1=yes 0=no
inj_care	Were they able to get the care they needed	Ν	1	1=yes 0=no
ill_anyone	Is anyone ill	Ν	1	1=yes 0=no
ill_care	Were they able to get the care they needed	Ν	1	1=yes 0=no
medical	Does anyone now require care	Ν	1	1=yes 0=no
diarrheal	Does anyone have a diarrheal illness	Ν	1	1=yes 0=no
respiratory	Does anyone have a respiratory illness	Ν	1	1=yes 0=no
rash	Does anyone have a rash	Ν	1	1=yes 0=no
cronic	Does anyone have a chronic illness	Ν	1	1=yes 0=no
emo_ill	Does anyone have an emotional illness	Ν	1	1=yes 0=no
rx_access	Are they able to get their medication	Ν	1	1=yes 0=no
rx3days	Do they have enough medication for 3 days	Ν	1	1=yes 0=no
food3days	Do they have enough food for 3 days	Ν	1	1=yes 0=no
emotional	Are they not able to take care of themselves or dependents because of emotional problems	N	1	1=yes 0=no
soc_sup	Do they have access to support networks Have they received disaster relief such as food,	N	1	1=yes 0=no
dis_relief	water, ice, or shelter from disaster relief stations?	N	1	1=yes 0=no
no_dis	If no why?	N	1	1=didn't need relief 2=couldn't get there, 3=didn't know about them, 4=other 1=food 2=water 3=electricity
greatest_need	What is there greatest need	N	1	4=medical care 5=medications 6=transportation 8=other
other_need	What other need do they have	Ν	40	open ended
petsnum	Number of pets in the house	Ν	2	0=none
birds	Number of birds in the house	Ν	2	
cats	Number of cats	Ν	2	
dogs	Number of dogs	Ν	2	
livestock	Number of livestock	Ν	2	
rodents	Number of rodents	Ν	2	
otherpets	Number of other pets	Ν	2	
pet_food	need pet food?	Ν	1	1=yes 0=no
pet_med	need pet meds?	Ν	1	1=yes 0=no
pet_crate	need a crate for pet	Ν	1	1=yes 0=no
		Ν		
_pet_leash	need a leash	N	1	1=yes 0=no



2. Block Activity Form

Name	Definition	Type	Width	Data Validation	
cluster_no	Block identifier (1-30)	N	2	1-30	
blockid	Census ID number	N	5	Census	
	e date of survey	D	10	mm/dd/ccyy	
supervisor	Text name of supervisor	Т	50		
svyr_name	Surveyor name	Т	50		
resample_block resampled household		Ν	1	1=Yes 0=No	
. –	number of households on block based on				
hu_new	direct observation	Ν	3	0-999	
	Hour:minute depart headquarters/last block to				
time_leave_HQ	go to first/next block	D	4	HH:MM	
time on block	Hour:minute arrive first/next block to go to next	Ь	1	HH:MM	
time_arv_block		D	4	HH:MM	
	Hour:minute begin enumeration Hour:minute end enumeration	D	4		
time_end_enu		D D	4 4	HH:MM HH:MM	
time_beg_rs	Hour:minute begin resampling	D	4	HH:MM	
time_end_rs	Hour:minute end resampling Hour:minute arrive household 1	D			
time_arv_h1		D	4 4	HH:MM HH:MM	
	Hour:minute depart household 1 Hour:minute arrive household 2	D	4	HH:MM	
time_arv_h2					
	Hour:minute depart household 2	D	4	HH:MM	
time_arv_h3	Hour:minute arrive household 3	D	4	HH:MM HH:MM	
	Hour:minute depart household 3	D	4		
time_arv_h4	Hour:minute arrive household 4	D	4	HH:MM	
	Hour:minute depart household 4	D D	4	HH:MM	
time_arv_h5	Hour:minute arrive household 5		4	HH:MM	
	Hour:minute depart household 5	D	4	HH:MM	
time_arv_h6	Hour:minute arrive household 6	D	4	HH:MM	
	Hour:minute depart household 6	D	4	HH:MM	
time_arv_h7	Hour:minute arrive household 7	D	4	HH:MM	
	Hour:minute depart household 7	D	4	HH:MM	
time_leave_blo ck Hour:minute depart last block to go to HQ D 4 HH:MM					
time_arv_HQ	Hour:minute depart last block to go to rice	D	4	HH:MM	
com on blk	Comments	T		free text	
COITI_OIT_DIK	Comments		200	IICC ICAL	



J. STATA batch file for statistical analysis of 30 by 7 cluster sample

```
* cluster analysis.do - 9/19/08 - Neil Maizlish
* Analyzes 30 by 7 cluster sample
* Data are exported from an MS Access database Questionnaire)
program define title1
 display "PHD" col(40) "Analysis Date: " "$S DATE"
 display "Sample Data for Rapid Epi Assessment, 30 x 7 Cluster Sample,
Berkeley"
end
set more off
set memory 10M
* set memory 768000
set matsize 800
set logtype text
* Log of data transformations
log using
C:\COB\EmergencyPrep\RapidEpi\SampleSelection\cluster analysis.doc,
title1
log off
* Read block activity and for number of housing units on block
insheet using
C:\COB\EmergencyPrep\RapidEpi\SampleSelection\block activity data.txt,
names
keep cluster no hu new resample block
sort cluster no
save block activity data.dta, replace
* read cluster sample
insheet using
C:\COB\EmergencyPrep\RapidEpi\SampleSelection\cluster data.txt, names
* insheet using
C:\COB\EmergencyPrep\RapidEpi\SampleSelection\questionnaire.txt, names
format %20.0g blockfips
sort cluster no
joinby cluster no using block activity data.dta
* Administrative variables
* ID Number of survey
* Date of survey (MS Access hms=00:00:00 + 1 millisecond to make into
next day)
generate svy date = clock(date svy, "MDYhms") + 100000
format %tcnn/dd/CCYY svy date
* Time of survey
generate svy time =clock(time svy,"###hms")
format %tCHH:MM svy time
* Surveyer ID
label define svyr id cat 1 Neil 2 Kate 3 Kathy 4 Tanya
```



```
label values svyr id svyr id cat
* Was this block resampled
* This gives flexibility in case block activity form not used to
* record whether household was resampled
replace resample=resample block
label values resample yncat
* Observed number of address points on sample block
* Type of respondent (0=resident,
label define ans type cat 0 "Resident" 1 "Neighbor" 2 "Interviewer"
label values ans_type ans_type_cat
* Type of Home
label define home_type_cat 1 "Single family house" 2 "2-5 Family units" 4 "6+ units" 5 "Migrant camp" 6 "Mobile home"
label values home type home type cat
* Damage to Home
label define home dam cat 1 "None" 2 "Damaged/habitable" 3
"Damaged/uninhabitable/repairable" 4 "Damaged/unihabitable/destroyed"
label values home dam home dam cat
* Pre-disaster population
* Post-disaster population
* shelter
label define shelter cat 1 "Shelter" 2 "Special Needs" 3 "Hotel/Motel"
4 "Neighbor " 5 "Other"
label values shelter shelter cat
* Any people <2 year olds
label define yncat 0 "No" 1 "Yes"
label values less 2 years yncat
* Any people 65 and older
label values more 64 years yncat
* Any people pregnant
label values preg yncat
* Running water to No Running water
label values run water yncat
* Water Source
label define water_source_cat 1 Well 2 Bottle 3 Public 4 None
label values water_source_water_source_cat
* Electricity from poewer company
label values electricity yncat
* Use of a generator
label values generator yncat
* Location of Generator
```



```
label define gen loc cat 1 "Indoor" 2 "Garage/shed" 3 "Outside" 4
"Carport" 5 "Other"
label values gen loc gen loc cat
* CO Alarm
label values co alarm yncat
* Working Indoor Toilet
label values toilet work yncat
* Access to Working Toilet
label values toilet access yncat
* Working Telephone
label values telephone yncat
* Access to transportation
label values transport yncat
* Working Radio
label values radio work yncat
* Access to news
label values media access yncat
* Gas turned off to house
label values gas off yncat
* Trash disposal
label values trash_disp yncat
* Anyone injured
label values injured yncat
* Injured get care
label values inj care yncat
* Anyone ill
label values ill anyone yncat
* Ill get care
label values ill care yncat
* Require care now
label values medical yncat
* Types of Illness
* Diarrhea
label values diarrheal yncat
* Respiratory
label values respiratory yncat
* Rash
```



label values rash yncat

```
label values cronic yncat
* Mental
label values emo ill yncat
* Able to get medication
label values rx access yncat
* 3 days supply of meds
label values rx3days yncat
* 3 days of food
label values food3days yncat
* Not able to take care of themselves/dependents due to emotional
problems
label values emotional yncat
* Have network of social support
label values soc sup yncat
* Are there pets living in the house
label values pets yncat
* Number of birds
* Number of cats
* Number of dogs
* Number of livestock
* Number of rodents
* Other pets
* Pet food
label values pet food yncat
* Pet meds
label values pet med yncat
* Pet crates
label values pet crate yncat
* Pet leash
label values pet_leash yncat
* Received disaster relief
label values dis relief yncat
* Reason for not getting disaster relief
label define no dis cat 1 "Didn't need relief" 2 "couldn't get there"
3 "Didn't know about them" 4 "Other"
```



label values no dis no dis cat

```
* Greatest Need
label define greatest_need_cat 1 Food 2 Water 3 Electricity 4 "Medical
care" 5 "Medications" 6 "Transportation" 8 "Other"
label values greatest need greatest need cat
* other need
label define other need cat 1 Soap 2 Towels 3 "Toilet Paper" 4 "First
Aid Kit" 5 "Bedding" 6 "Coffee Filters" 8 "Other"
label values other need other need cat
* Comments
* Descriptive Analysis *********************
* You must remove the asterisk for the sample weight you want
* Re-enumerated blocks in the field
generate double new smple wt = (1/30)*hu smpl wt*hu new/7
* mathematically equivalent to:
* generate double new smple wt = smple wt*(hu new/hu cob)
* Original Sample Weight from parcel Database
* svyset cluster no [pweight=smple wt]
svyset cluster no [pweight=new smple wt]
* Create All City variable
* generate cob=1
* Total Households
log on
svy:total cob
* Home Type
* Households
* Sample N
tab1 home type
* Weighted Proportion
svy:prop home type
* Weighted N
svy:total cob, over(home type)
* Population
svy:total people post, over(home type)
* Estimates of Damaged Homes
* Sample N
tab1 home dam
* Weighted Proportion
svy:prop home_dam
* Weighted N
svy:total cob, over(home dam)
* Population
svy:total people post, over(home dam)
* Estimate of Pre-Disaster Population
tab1 people pre
```

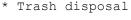


svy:total people pre

```
* Estimate of Post-Disaster Population
tab1 people post
svy:total people post
* Shelter
* Sample N
tab1 shelter
* Weighted Proportion
svy:prop shelter
* Weighted N
svy:total cob, over(shelter)
* Population
svy:total people_post, over(shelter)
* Running water
* Households
tab1 run water
svy:mean run water
svy:total cob, over(run water)
* Population
svy:total people post, over(run water)
* Water Source
* Sample N
tab1 water source
* Weighted Proportion
svy:prop water source
* Weighted N
svy:total cob, over(water_source)
* Population
svy:total people_post, over(water_source)
* Electricity
tab1 electricity
svy:mean electricity
svy:total cob, over(electricity)
* Population
svy:total people post, over(electricity)
* Generator
tabl generator
svy:mean generator
svy:total cob, over(generator)
* Population
svy:total people post, over(generator)
* Location of generator
* Sample N
tab1 gen loc
* Weighted Proportion
svy:prop gen loc
* Weighted N
svy:total cob, over(gen_loc)
* CO Alarm
```



```
tab1 co alarm
svy:mean co alarm
svy:total cob, over(co alarm)
* Population
svy:total people post, over(co alarm)
* Working Indoor Toilet
tab1 toilet work
svy:mean toilet work
svy:total cob, over(toilet work)
* Population
svy:total people post, over(toilet work)
* Access to Working Toilet
tab1 toilet access
svy:mean toilet access
svy:total cob, over(toilet access)
* Population
svy:total people post, over(toilet access)
* Working Telephone
tab1 telephone
svy:mean telephone
svy:total cob, over(telephone)
* Population
svy:total people post, over(telephone)
* Access to transportation
tab1 transport
svy:mean transport
svy:total cob, over(transport)
* Population
svy:total people post, over(transport)
* Working Radio
tabl radio work
svy:mean radio work
svy:total cob, over(radio_work)
* Population
svy:total people post, over(radio work)
* Access to news
tab1 media access
svy:mean media access
svy:total cob, over(media access)
* Population
svy:total people_post, over(media_access)
* Gas turned off to house
tabl gas off
svy:mean gas off
svy:total cob, over(gas off)
* Population
svy:total people post, over(gas off)
```





```
tabl trash disp
svy:mean trash disp
svy:total cob, over(trash_disp)
* Population
svy:total people post, over(trash disp)
* Household with of <2 year olds
recode less 2years 0=0 1/99=1, gen(less 2years cat)
tab1 less 2years cat
svy:mean less_2years_cat
svy:total cob, over(less_2years_cat)
* Population total
svy:total less_2years
* Any people 65 and older
recode more 64 years 0=0 1/9=1, gen(more 64 years cat)
tab1 more 64 years cat
svy:mean more 64years cat
svy:total cob, over(more 64years cat)
* Population total
svy:total more 64years
* Any people pregnant
recode preg 0=0 1/9=1
tab1 preg
svy:mean preg
svy:total cob, over(preg)
* Anyone injured
tabl injured
svy:mean injured
svy:total cob, over(injured)
* Injured get care
tab1 inj care
svy:mean inj care
svy:total cob, over(inj care)
* Anyone ill
tab1 ill anyone
svy:mean ill anyone
svy:total cob, over(ill anyone)
* Ill get care
tab1 ill care
svy:mean ill care
svy:total cob, over(ill care)
* Require care now
tab1 medical
svy:mean medical
svy:total cob, over(medical)
* Type of Illness
* Diarrheal Illness
* Sample N
```



```
tab1 diarrheal
* Weighted Proportion
svy:prop diarrheal
* Weighted N
svy:total cob, over(diarrheal)
* Respiratory Illness
* Sample N
tab1 respiratory
* Weighted Proportion
svy:prop respiratory
* Weighted N
svy:total cob, over(respiratory)
* Rash
* Sample N
tab1 rash
* Weighted Proportion
svy:prop rash
* Weighted N
svy:total cob, over(rash)
* Chronic Illness
* Sample N
tab1 cronic
* Weighted Proportion
svy:prop cronic
* Weighted N
svy:total cob, over(cronic)
* Emotional Illness
* Sample N
tab1 emo ill
* Weighted Proportion
svy:prop emo ill
* Weighted N
svy:total cob, over(emo ill)
* Able to get medication
tab1 rx access
svy:mean rx access
svy:total cob, over(rx access)
* 3 days med supply
tab1 rx3days
svy:mean rx3days
svy:total cob, over(rx3days)
* 3 days food supply
tabl food3days
svy:mean food3days
svy:total cob, over(food3days)
* Population
svy:total people post, over(food3days)
```



```
* Not able to take care of themselves/dependents due to emotional
problems
tab1 emotional
svy:mean emotional
svy:total cob, over(emotional)
* Have network of social support
tabl soc sup
svy:mean soc sup
svy:total cob, over(soc_sup)
* Pets at home
tab1 pets
svy:mean pets
svy:total cob, over(pets)
* Birds
* Sample N
tabl birds
* Weighted Proportion
svy:prop birds
* Weighted N
svy:total birds
* Cats
* Sample N
tab1 cats
* Weighted Proportion
svy:prop cats
* Weighted N
svy:total cats
* Dogs
* Sample N
tabl dogs
* Weighted Proportion
svy:prop dogs
* Weighted N
svy:total dogs
* Livestock
* Sample N
tab1 livestock
* Weighted Proportion
svy:prop livestock
* Weighted N
svy:total livestock
* Rodents
* Sample N
tab1 rodents
* Weighted Proportion
svy:prop rodents
* Weighted N
svy:total rodents
```





```
* Sample N
tabl other pets
* Weighted Proportion
svy:prop other pets
* Weighted N
svy:total other pets
* Pets need food
tabl pet food
svy:mean pet food
svy:total cob, over(pet_food)
* Pets need med
tab1 pet med
svy:mean pet med
svy:total cob, over(pet med)
* Pets need a crate
tab1 pet crate
svy:mean pet crate
svy:total cob, over(pet crate)
* Pets need a leash
tab1 pet leash
svy:mean pet leash
svy:total cob, over(pet leash)
* Received disaster relief
tab1 dis relief
svy:mean dis_relief
svy:total cob, over(dis_relief)
* Population
svy:total people post, over(dis relief)
* Reason for not getting disaster relief
* Sample N
tabl no dis
* Weighted Proportion
svy:prop no dis
* Weighted N
svy:total cob, over(no dis)
* Greatest Need
* Weighted Proportion
svy:prop greatest need
* Weighted N
svy:total cob, over(greatest need)
* Sample N
tab1 greatest_need
* Population
svy:total people post, over(greatest need)
* list other need if other need ~=""
* Other Need
* Sample N
tabl other need
```



* Weighted Proportion
svy:prop other_need
* Weighted N
svy:total cob, over(other_need)
list comments if comments > ""

* Delete temporary file
erase block_activity_data.dta
log off



K. Presentation to management of the Emergency Operations Center (EOC)

Rapid Epidemiologic Assessment

The City of Berkeley Public Health Division

DRAFT - 9/19/2008



Public Health Division

Purpose and Uses of Rapid Epidemiologic Assessment (REA)

- · To provide timely, statistically valid information on households' and population health status, access to housing, food, water, public services and other services in the wake of a disaster.
- · To improve the timeliness and targeting of disaster relief and demobilization.
- · To monitor the effectiveness of disaster relief activities.



Hypothetical Disaster

2



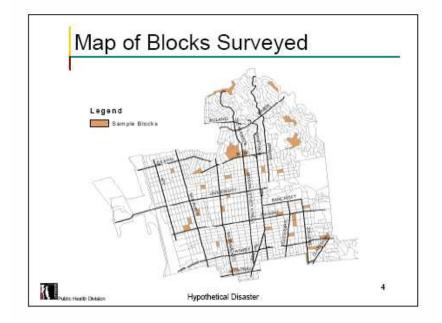
Methods

- On 9/14/2011, interview teams went to 30 randomly selected blocks in the disaster area
- The interviewers randomly selected 7 households on each block and interviewed 1 resident per household.
- In a 5-interview, the resident was asked about food, water, illness/injury, utilities and other services, and their health
- A total of 210 households were interviewed.

Public Health Christon

Hypothetical Disaster

3





Results: Number and Percent of Berkeley Households' and Residents' Post-Disaster Status on Food/Water, Shelter, and Services

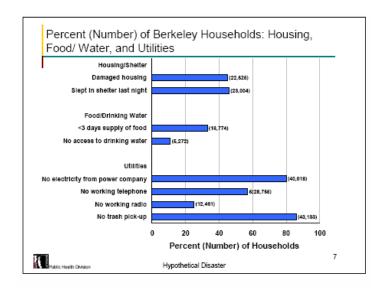
	Households		Population	
Characteristic	Percent	N	Percent	N
Total	100	50,322	100	91,538
Housing/Shelter				
Damaged housing	45	22,525	45	40,976
Slept in shelter last night	46	23,004	46	41,935
Food/Drinking Water				
<3 days supply of food	33	16,774	65	59,188
No access to drinking water	11	5,272	11	10,304
Utilities				
No electricity from power company	80	40,018	81	74,045
No working telephone	57	28,755	55	50,562
No working radio	25	12,461	25	22,765
No trash pick-up	86	43,133	86	79,077

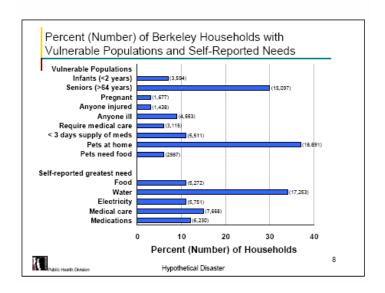
The Public Health Children Hypothetical Disaster

Results: Number and Percent of Berkeley Households' and Residents' Post-Disaster Status on Food/Water, Shelter, and Services

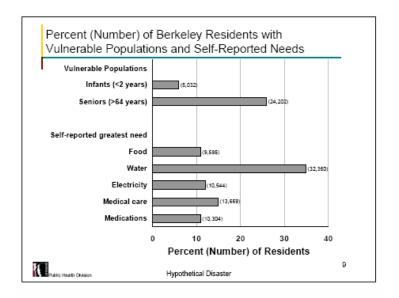
Characteristic	House	Households		Population	
	Percent	И	Percent	И	
Vulnerable Populations					
Infants (<2 years)	7	3,594	6	5,032	
Seniors (>64 years)	30	15,097	26	24,202	
Pregnant	3	1,677			
Anyone injured	3	1,438			
Anyone ill	9	4,553			
Require medical care	6	3,115			
< 3 days supply of meds	11	5,511			
Pets at home	37	18,691			
Food	6	2,876			
Self-reported greatest need					
Food	11	5,272	11	9,585	
Water	34	17,253	35	32,350	
Electricity	11	5,751	12	10,544	
Medical care	15	7,668	15	13,659	
Medications	12	6,230	11	10,304	

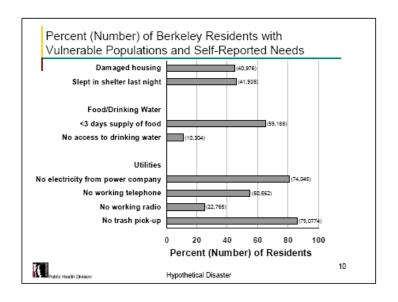














Conclusions

- · Infrastructure
- Vulnerable Populations
- Next Survey



Hypothetical Disaster

11

