

ICPSR 36151

India Human Development Survey-II (IHDS-II), 2011-12

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User Guide

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India Human Development Survey-II

Users' Guide

Release 01
24 July 2015

Files:

Documentation (this file)	ihds2usersguide01.pdf
Household data	36151-0002-Data.dta
Individual data	36151-0001-Data.dta
Eligible woman data	36151-0003-Data.dta
Birth history data	not yet available
Youth data	not yet available
Nonresident data	not yet available
Tracking sheet from IHDS-I	not yet available
Village data	not yet available
Medical Facility data	not yet available
School data	not yet available
Household codebook	36151-0002-Codebook.pdf
Individual codebook	36151-0001-Codebook.pdf
Eligible woman codebook	36151-0003-Codebook.pdf
Birth history codebook	not yet available
Youth codebook	not yet available
Nonresident codebook	not yet available
Tracking sheet codebook	not yet available
Village codebook	not yet available
Medical Facility codebook	not yet available
School codebook	not yet available
Income and Social Capital questionnaire*	ihds2isq.pdf
Education & Health questionnaire	ihds2ehq.pdf
Learning tests	ihds2learning.pdf
Tracking sheet from IHDS-I	not yet available
Youth questionnaire	not yet available
Village questionnaire	not yet available
Medical Facility questionnaire	not yet available
School questionnaire	not yet available

* The Income and Social Capital Questionnaire was named the "Household Questionnaire" in IHDS-I but this caused confusion with the *household data file* (which has household-level data from both questionnaires), so we have renamed this questionnaire.

Cataloging information:

Principal Investigators: Sonalde Desai, Amaresh Dubey, and Reeve Vanneman

Data file release 01

Files: Household file: 36151-0002-Data.dta (N=42152; variables=872)
Individual file: 36151-0001-Data.dta (N=204568; variables= 502)
Eligible woman file: 36151-0003-Data.dta (N=39523; variables= 686)

Produced 24 July 2015 at the University of Maryland, College Park, MD, USA.

Funded by the National Institutes of Health, grants R01HD041455 and R01HD061048, and by the Ford Foundation.

Bibliographic Citation:

Desai, Sonalde, Amaresh Dubey, and Reeve Vanneman. India Human Development Survey-II (IHDS-II) [Computer file]. University of Maryland and National Council of Applied Economic Research, New Delhi [producers], 2015. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor].

India Human Development Survey-II Release 01

Abstract

The India Human Development Survey 2012 (IHDS) is a nationally representative, multi-topic panel survey of 42,152 households in 384 districts, 1420 villages and 1042 urban neighborhoods across India. Most of these households had been interviewed for IHDS-I. Both surveys cover all states and union territories of India with the exception of Andaman/Nicobar and Lakshadweep. Two one-hour interviews in each household covered health, education, employment, economic status, marriage, fertility, gender relations, and social capital. Children aged 8-11 completed short reading, writing and arithmetic tests. Additional youth, village, school, and medical facility interviews will be available later. IHDS was jointly organized by researchers from the University of Maryland and the National Council of Applied Economic Research (NCAER), New Delhi.

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Description

Purpose:

IHDS has four characteristics that make it unique among Indian surveys:

- breadth of topics;
- depth of human development indicators;
- a panel component;
- a rich array of contextual measures.

Breadth. IHDS was designed to complement existing Indian surveys by bringing together a wide range of topics in a single survey. This breadth permits analyses of associations across a range of social and economic conditions. For example, studying children's outcomes (e.g., learning, immunizations) requires joint consideration of the role of poverty, family structure, gender relations, community context, and the availability of facilities. All of these are available in the IHDS. The questionnaires are similar across the two waves to enable comparisons over time. However, there are additions to the institutional modules to capture new programs and policies, which provide a quasi-experimental framework to test for their effectiveness.

Depth. Studies of human development have traditionally focused on a well-accepted set of social and economic indicators (e.g., poverty, school enrollments). Most of these indicators are available in IHDS but have been supplemented with additional measures that provide a fuller understanding of human development. For example, IHDS measures not only school enrollments but also children's achievements in reading, arithmetic, and writing. Also, the usual consumption based measures of living standards are supplemented with detailed questions on the levels and sources of income in order to better understand how the household came to its current economic position.

Panel. IHDS – I is a nationally representative survey of 41,554 households conducted in 2004-2005. In 2011-12, IHDS-II re-interviewed 83% of these households as well as split households (if located within the same village or town) to trace changes in their lives. With an additional replacement sample of 2134 households, IHDS –II has a sample size of 42,152 households. This has created a unique dataset, which provides a rich description of changes in the Indian society.

In IHDS-II, one more module has been added for youth, 15-18, in the households to investigate transitions to adulthood in India. These youths are primarily the children who were administered the learning tests in IHDS-I.

Panel data will allow better estimation of the influence of development and government policy on families and households than is now possible. Panel data also create new opportunities to investigate the causes of inequalities in employment, education, and health in India. They also enable the study of how early life experiences allow some individuals to gain upward mobility and others to stay behind and how changes in personal, family, and community resources affect subsequent health and well-being.

Files providing the link between IHDS-I and IHDS-II will be available from the IHDS website: <http://ihds.umd.edu/panel2012.html>

IHDS-I also has a link to a 1993-94 study by NCAER of 13,900 rural households that used some of the measures in IHDS. See <http://ihds.umd.edu/panel1994.html>

Contexts. In addition to the household surveys, IHDS-II includes village, school, and medical facility surveys. Extensive Census data are also available to be merged for contextual analyses at the village, district, and state levels. (Not available in Release 01). Within the household survey, several sections also focus on the household's connections to the wider community.

All of these features make IHDS especially useful for analyzing causal patterns underlying changes in human development. However, users who are primarily interested in descriptions of current levels of a particular human development indicator might prefer surveys with larger samples that are more narrowly focused on that topic (e.g., the National Sample Surveys, the Sample Registration System, or the National Family Health Survey). Users who want a state-level measure of a particular human development outcome are especially cautioned against relying exclusively on the smaller state samples of IHDS.

File description:

Release 01 has three files:

	<u>ICPSR file name</u>	<u>IHDS file name</u>	<u># cases</u>	<u># variables</u>
Household	36151-0002-Data.dta	ihds2hh1.dta	42,152	872
Individual	36151-0001-Data.dta	ihds2ind1.dta	2,04,568	502
Eligible woman	36151-0003-Data.dta	ihds2ew1.dta	39,523	581

Future releases will have additional files:

- Birth history
- Tracking sheet
- Youth survey
- Birth history
- Nonresident
- Village
- Medical facilities
- Schools
- Wages
- Crop production
- Census district

Merging and Linking Files:

Merging the household and individual files should be easy. Sort both files by stateid distid psuid hhid hhsplitid (or by idhh which is the 9-digit equivalent) and merge or link using those sort variables. There are no household records without at least one individual record and no individual records without a household record.

Merging the eligible woman file with her individual information from the individual file should also be straightforward. The variable personid is the eligible woman's person id on the eligible woman file and should merge exactly with the individual file.

Data Access:

Data from the India Human Development Survey are publicly available from the Inter-University Consortium for Political and Social Research (ICPSR), study # 36151. The data have been further processed by Data Sharing for Demographic Research.

<http://www.icpsr.umich.edu/icpsrweb/DSDR/studies/36151>

Data are free to all users. ICPSR asks that you login with your email id and a password. You can then download all data and documentation.

Website:

A website describing IHDS and available for downloading documentation is available at:

<http://ihds.umd.edu/index.html>

LIS cross national data center in Luxembourg:

The income, employment, and some other data are available from the LIS data center

<http://www.lisdatacenter.org/>

where they have been harmonised for easy comparison with a wide variety of other middle- and high- income countries.

Email:

Send questions to ihdsinfo@gmail.com

You can also request to receive periodic emails from IHDS by notifying ihdsinfo@gmail.com

Twitter:

IHDS also make announcements of data releases, new publications, and other items of interest over twitter. You can follow the project at [@ihdscorner](https://twitter.com/ihdscorner)

Missing Values:

For the first release, all missing values have been coded to a simple missing (“.”)

In later versions we hope to distinguish among reasons for a missing code:

code

- .a Valid skip, blank
- .c Don't know, 8s (or 88s, 98s, etc.)
- .d Invalid skip
- .e Out of range or otherwise erroneous

In the following sections of the individual file, the questionnaire listed only those household members who fit some criteria (e.g., had a fever, cough, or diarrhoea). If a household member did not fit the overall criteria, then they would be coded as missing (“.”) for the entire section. Users may want to recode these missing values to zero (“No”) for many of the variables in these sections.

<u>Section</u>	<u>ID Variable</u>
Farm work	fm37, fm39
Animal work	an6, an7
Nonfarm business work	nf9, nf29, nf49
Computer knowledge	mm7
Current students	cs2
Short term morbidity	sm2
Major morbidity	mb2
Activities of daily living	ad2
Tobacco and alcohol	to2

Survey Methodology:

The survey was carried out in face-to-face interviews containing the following modules:

1. An interview with a knowledgeable informant – typically the head of the household – regarding socio-economic condition of the household including income, employment, educational status, consumption expenditure, and social capital.
2. An interview with an ever-married woman aged 15-49 regarding health, education, fertility, family planning, marriage, and gender relations in the household and community. Those ever-married women who were interviewed in IHDS – I but were no longer eligible i.e. older than 49 years of age have also been interviewed.
3. An interview with youth in the households aged 15-18 years regarding education, employment, marriage, life skills, future planning, friendship and risky confidential behaviors.
4. Short reading, writing, and arithmetic knowledge tests were administered to all available children aged 8-11 and youth aged 15-18 in the household. These tests were developed in collaboration with researchers from Pratham, India, and were pretested to ensure comparability across languages.
5. Height and weight measurement of children under age 5, aged 8-11, their mothers, and other available household members.
6. Facilities assessment of one government and one private primary school as well as a primary health care facility in the community.
7. Village questionnaire assessing employment opportunities and infrastructure facilities in the village.

The survey instruments were translated into 13 Indian languages and were administered by local interviewers.

Sample:

IHDS-I is a nationally representative survey of 41,554 households conducted in 2004-2005. IHDS –II has re-interviewed 83% of the original households as well as split households residing within the village and an additional sample of 2134 households. The final sample size for IHDS-II is 42,152 households. These households are spread across 33 states and union territories, 384 districts, 1420 villages and 1042 urban blocks located in 276 towns and cities.

The IHDS-I sample consists 27,010 rural and 13,126 urban households. The rural sample was drawn using stratified random sampling and contains 13,900 rural households who were interviewed in 1993-94 in a previous survey by NCAER and 28,428 new households. The urban sample was a stratified sample of towns and cities within states (or groups of states) selected by probability proportional to population (PPP). Of the 612 districts in India in 2001, 382 are included in IHDS-I. The sample is spread across 1503 villages and 971 urban blocks.

Some IHDS-I households had to be replaced in some urban areas where interviewers were unable to locate the former households. Replacement households are identified by a 9 in **hhsplitid**.

Fieldwork:

For IHDS-II, the fieldwork was carried out by 20 collaborating institutions under the supervision of the National Council of Applied Economic Research (NCAER), New Delhi. Locally knowledgeable and linguistically fluent interviewers were hired by the collaborating institutions and trained by senior project personnel from NCAER and the University of Maryland. A team of one male and one female interviewer visited each home; women respondents were interviewed by women interviewers whenever possible.

Fieldwork began in November 2011 and was almost completed by October 2012.

Constructed Variables

Case and Geographic Identification:

hhbase hhfam2 hhid hhsplitid idhh hhid2005 hhid2012 hhsplitid2005 hhsplitid2012 hhwave
idpsu stateid2 dist01 distid district urban urban2001 urban2011 urban4 urban4_2001
urban4_2011 region metro metro6 wt indwt fwt indfwt wt2012 indwt2012 fwt2012 indfwt2012
xwt2005 xfw2005

Consumption

copc co1x-co14x copc5 cototal cototal5 cototalln colnpc coequiv colnequiv

Counts

Npersons Nchildm Nchildf Nteenm Nteenf Nadults Nelderf nelderm Nmarriedf Nmarriedm Nnr

Education (household)

hheduc hheducm hheducf hhedu7 edunder1

Employment

wkfarm wkanimal wkbusiness wkaglab wknonag wknrega wknnonnrega wksalary wkdaya
wkhours wkany5 wkany wknonagd wkaglabd wksalaryd wkbusinessd wkfarmd wkanimald
wknregad wknnonnregad wkany5d wkanyd

Nwknonag Nwkaglab Nwksalary Nwkbusiness Nwkfarm Nwkanimal Nwknrega Nwknrega4
Nwknnonnrega Nwkany5 Nwkany

Household Assets

assets assets5 assets2005 assetsx

Income

income income5 incomepc incomeeq incomepc5 incnonag incaglab incsalary incnrega
incnonnrega inccrop incagprop incanimal incag incbus incbuscalc incother inccarn incbenefits
incremit incomeln incomepc incomelnpc incomelneq nonincome

Poverty

poor povline2012 povline2005

Social Groups

groups groups6 groups8

Constructed Variables: Case and Geographic Identification

IHDS households are uniquely identified by the combination of stateid + distid + psuid + hhid + hhsplitid (where “+” signifies concatenation, not addition). In the individual file, persons are uniquely identified by the combination of those variables + personid. Several other identification variables are available to assist in sorting and merging files and for identifying geographic areas.

Variable	Obs	Unique values	Mean	Min	Max	Label
hhbase	42152	36777	1.24E+09	1.01E+09	2.33E+09	survey wave + hhid at first entry
hhfam2	42152	6	1.16	1	6	
hhid	42152	197	92.94	10	521	HQ0 Household ID (3-digit)
hhsplitid	42152	7	1.57	1	9	HQ0 Split household ID
idhh	42152	42152	na	na	na	Household id, 10 byte string
hhid2005	42152	52	9.25	1	52	household id in 2005 (2-digit)
hhid2012	42152	197	92.94	10	521	household id in 2012 (3-digit)
hhspliid2005	42152	8	0.44	0	7	split household id for 2005
hhsplitid2012	42152	7	1.57	1	9	split household id for 2012
hhwaves	42152	2	10.49	1	11	which surveys hh has been in
stateid2	42152	22	473.89	101	733	State codes, collapsed
dist01	42152	60	14.92	1	68	H1sp: District ID Census 2001
distid	42152	60	14.95	1	68	HQ0 District code
district	42152	380	1852.74	102	3402	State + district 2001 census
urban	42152	2	0.32	0	1	Census 2011: village/town
urban2001	42152	2	0.32	0	1	Census 2001: village/town
urban2011	42152	2	0.35	0	1	Census 2011: village/town
urban4	42152	4	1.95	0	3	4-cat urban/rural from 2011
urban4_2001	42132	4	1.95	0	3	4-cat urban/rural from 2001
urban4_2011	42152	4	1.93	0	3	4-cat urban/rural from 2011
region	42152	7	4.55	1	7	ISO states grouped into 7 regions
metro	42152	2	0.09	0	1	Largest 6 metro areas 0/1
metro6	3912	6	2.99	1	6	Largest 6 metro areas 1-6
wt2012	42152	1433	6053.4	154.1	156647.5	Weights for 2012
indwt2012	42152	10307	28759.7	225.4	1222133	Weights to adjust hh files to population size
fw2012	42152	1312	6053.4	154	156648	Integer weights
indfw2012	42152	8768	28759.7	225	1222136	Integer weights to adjust hh files to population size

hhbase: unique household id at entry to IHDS. All subsequent household splits keep this same id.

hhfam2: household id for each split from the origin household.

idhh: a 10-byte string variable that uniquely identifies each household in IHDS-II; calculated as stateid*10000000 + distid*100000 + psuid*1000 + hhid*10 + hhsplitid.

idpsu: a long integer variable that uniquely identifies each primary sampling unit (psu). It is useful for identifying survey clusters in some statistical analyses.

idpsu is calculated as $\text{stateid} * 10000 + \text{distid} * 100 + \text{psuid}$.

stateid2: a slightly collapsed version of stateid that creates 22 states and state groups from the 33 states in IHDS. **stateid2** also sorts the states into a slightly different regional order. Chandigarh is collapsed into Punjab. All northeast states and Sikkim are treated as a single group. Daman & Diu and Dadra & Nagar Haveli are included in Gujarat. Goa is collapsed into Maharashtra and Pondicherry into Tamil Nadu.

dist01: District identifiers in IHDS (distid) are generally the census 2001 district identification number. In a small number of cases (317 households), distid does not record the correct census code. The correct 2011 census code is always given in **dist01**. However, **dist01** should not be used for sorting or identifying households since psu and household ids are not unique within **dist01**. **stateid** is always the 2011 census state code.

distname: distname is a 4 digit integer code combining the 2011 census state and district codes. Value labels provide the name of each district.

urban: This dichotomy identifies every primary sampling unit that was in an urban area as identified by the 2011 census. It differs slightly from and should be preferred over the code recorded in the urban/rural variable, **id9**, on the household survey which was created from the sampling design. 19 rural PSUs in the sampling design were changed to urban areas in the 2001 census.

metro6: The six largest metropolitan areas (Mumbai, Delhi, Kolkata, Chennai, Bangalore, and Hyderabad) are identified as codes 1-6 in metro6 – households in all other areas are coded as missing. Metropolitan areas were defined as any district included in the census definition of “urban conglomerates” for each of these six areas. These districts often include both urban and rural areas; *all* parts are included in the metro6 categories. Delhi is a slight exception to this definition. The Census of India does not allow urban conglomerates to cross state boundaries, although parts of U.P. and Haryana are clearly part of the larger Delhi metropolitan area. To correct for this, Gurgaon district in Haryana and Ghaziabad and Gautam Buddha Nagar districts in U.P. are included as part of the Delhi metropolitan area.

wt2012: (floating point) weights for estimates of all Indian households in the household file, or all Indian persons in the individual file.

indwt2012: (floating point) weights for estimates of all Indian persons in the household file (e.g., for poverty head counts)

fwt2012: : (long integer) weights for estimates of all Indian households in the household file, or all Indian persons in the individual file.

indfwt2012: (long integer) weights for estimates of all Indian persons in the household file (e.g., for poverty head counts)

Constructed Variables: Consumption/ Expenditure

Variable	Obs	Unique	Mean	Min	Max	Label
copc	42129	37562	27155.07	180	1461484	HQ23 14. hh expenditure /capita
copc5	42129	5	3.29	1	5	HQ23 14. expenditures/ capita quint
co1x	42152	1766	424.86	0	6566	HQ23 14.1 Rice: total Rs
co14x	41980	245	494.41	0	9000	HQ23 14.14 Vegetables: total Rs
cototal	42129	34903	118055.10	180	4080760	HQ23 14. Total hh expenditure
cototal5	42129	5	3.14	1	5	HQ23 14. Total hh expenditure quintiles
cototaln	42129	34903	11.40	5.19	15.22	HQ23 14. log of hh expenditure
colnpc	42129	37551	9.93	5.19	14.19	HQ23 14. log of hh expenditure /capita
colnequiv	42129	40118	10.66	5.19	14.52	HQ23 14. log of hh expenditure equivalenced
coequiv	42129	40341	54984.52	180	2014418	HQ23 14. hh expenditure equivalenced

IHDS-II asked a series of 52 questions about household consumption designed to estimate total household consumption expenditures (see the Income and Social Capital questionnaire pages 23-25). These questions were modeled on the short form of the National Sample Survey Organization. The total expenditure is often used as the best measure of the household's current economic level. The first thirty-three, more frequently purchased items, used a 30-day time frame while the remaining 19 items used an annual time frame. The variable, **cototal**, reports expenditures on a monthly basis, so items **co34-co52** were divided by 12 before being summed in the final variable.

Total monthly consumption had to be calculated for the first fourteen consumption items (page 23 of the questionnaire). These totals are stored as **co1x, co2x, ... co14x** on the data file.

The first five consumption items (rice, wheat, sugar, kerosene, and other cereals) could be purchased in PDS (public distribution system) shops, purchased in the market, or home produced (except kerosene). Total monthly expenditures for these items was calculated from the household's report of the quantity and price purchased from PDS shops plus the report of the quantity home-produced or purchased in the market times the reported market price. Market and home-produced quantities were calculated from the difference between PDS purchases and the total consumed.

For the next nine items, the household could report either the quantity consumed and the market price, or the total value of the items consumed. Sometimes, interviewers reported all three values. In rare cases where all three values were reported there was a discrepancy (the total value did not equal the quantity times the price). In these cases IHDS used the quantity and price reports and disregarded the total value report.

The final consumption total was calculated as the sum of the constructed variables **co1x** to **co14x**, the monthly items **co15** to **co33**, and annual items **co34** to **co52**.

The following variables are from section 14 of the Income & Social Capital questionnaire.

Variable	Description	Page	Q	Mean	Std. Dev.	Min	Max
co1x	Rice	23	1	424.9	429.7	0	6566
co2x	Wheat	23	2	273.5	296.8	0	4638
co3x	Sugar	23	3	149.4	153.2	0	9600
co4x	Kerosene	23	4	48.7	65.4	0	3510
co5x	Other cereals	23	5	52.1	144.7	0	3200
co6x	Pulses	23	6	216.5	177.9	0	7500
co7x	Meat	23	7	304.1	459.2	0	21600
co8x	Sweeteners	23	8	59.1	106.3	0	6000
co9x	Edible oil	23	9	303.8	224.2	0	9600
co10x	Eggs	23	10	41.5	71.4	0	2000
co11x	Milk	23	11	644.1	835.8	0	22500
co12x	Milk products	23	12	164.5	284.2	0	8600
co13x	Cereal products	23	13	87.7	116.7	0	3000
co14x	Vegetables	23	14	494.4	373.5	0	9000
co15	Salt/spices	24	15	195.5	186.3	0	6000
co16	Tea/Coffee	24	16	98.0	97.3	0	2000
co17	Processed food	24	17	90.5	124.9	0	10200
co18	Paan/ tobacco/ intox.	24	18	143.2	290.5	0	12000
co19	Fruits/nuts	24	19	146.6	237.6	0	11000
co20	Eating out	24	20	95.2	313.7	0	20000
co21	Fuel	24	21	316.2	257.6	0	8000
co22	Light	24	22	243.9	950.2	0	88888
co23	Entertainment	24	23	31.7	246.7	0	25000
co24	Telephone	24	24	240.8	446.5	0	60000
co25	Cosmetics/toilet	24	25	130.2	146.9	0	10000
co26	HH items	24	26	41.4	223.9	0	38000
co27	Soap, detergent	24	27	170.6	158.0	0	8000
co28	Conveyance	24	28	361.7	954.9	0	99999
co29	Diesel/petrol/CNG	24	29	343.8	1034.3	0	84000
co30	House/Other rent	24	30	126.3	838.4	0	60000
co30a	house loan	24	30a	78.4	1113.1	0	80000
co30b	Other rent	24	30b	7.3	403.6	0	60000
co31	Consumer tax/fees	24	31	49.0	349.4	0	30500
co32	Services servants	24	32	92.0	331.3	0	25150
co33	Medical out-patient	24	33	477.0	1263.8	0	50000

Annual time frame:

Variable	Description	Page	Q	Mean	Std. Dev.	Min	Max
co34	Medical in-patient	25	34	6414.4	34604.7	0	4000000
co35	School/colleg fee	25	35	4706.0	17650.0	0	1000000
co36	Private tuition	25	36	973.8	4129.8	0	150000
co37	School books	25	37	1672.9	3617.2	0	150000
co38	Clothing/bedding	25	38	3703.2	8554.7	0	1500000
co39	Footwear	25	39	998.4	1141.8	0	40000
co40	Furniture/fixtures	25	40	524.4	15423.6	0	3070000
co41	Crockery/utensils	25	41	287.3	1504.3	0	210000
co42	HH appliances	25	42	287.0	2180.6	0	150000
co43	Recreation goods	25	43	272.4	2070.8	0	100000
co44	Jewelry	25	44	3051.8	30695.0	0	3000000
co45	Transport equipt	25	45	1575.6	16614.9	0	1200000
co46	Therapeutic app	25	46	82.9	734.6	0	83000
co47	Personal care	25	47	131.6	617.5	0	100000
co48	Other personal	25	48	528.9	2557.6	0	202000
co49	Repair/maintenance	25	49	2459.9	18658.6	0	1300000
co50	Insurance premiums	25	50	2518.9	12018.0	0	1000000
co51	Vacations	25	51	517.5	3825.9	0	400000
co52	Social functions	25	52	6657.3	38334.9	0	2000000

Constructed Variables: Counts of Individuals within Households

IHDS households varied from one to 33 persons in size. Counts of total persons and various categories are taken from the household roster in the Income & Social Capital questionnaire (section 2, page 4) and other sections of the individual file.

Variable	Label	Questionnaire	Page	Section	Mean	Std. Dev.	Min	Max
Npersons	N in hh	IS	4	2	4.85	2.32	1	33
Nchildm	N 0-14 boys in hh	IS	4	2	0.71	0.89	0	10
Nchildf	N 0-14 girls in hh	IS	4	2	0.65	0.92	0	10
Nteenm	N 15-20 boys in hh	IS	4	2	0.28	0.55	0	5
Nteenf	N 15-20 girls in hh	IS	4	2	0.29	0.56	0	5
Nadultm	N 21+ males in hh	IS	4	2	1.43	0.88	0	9
Nadultf	N 21+ females in hh	IS	4	2	1.49	0.98	0	9
Nelderf	N 60+ females in hh	IS	4	2	0.27	0.46	0	4
Nelderf	N 60+ females in hh	IS	4	2	0.27	0.46	0	4
Nmarriedm	N married men in hh	IS	4	2	1.14	0.69	0	8
Nmarriedf	N married women in hh	IS	4	2	1.20	0.70	0	8
Nnr	N nonresidents	IS	4	2	0.34	0.71	0	9

Constructed Variables: Education (household)

IHDS collected several useful educational measures for individuals such as literacy (**ed2**), years of schooling (**ed5**), class/division of secondary school exam (**ed9**), and English language fluency (**ed7**). At the household level, the highest school attainment among adult women (**hhed5f**) and among adult men (**hhed5m**) are taken from individual education records. Adults are defined as individuals 21 years or older. In households without an adult 21 or older, the education of the person listed as head or head's spouse is taken. The highest overall adult education (**hheduc**) is the maximum of highest male and highest female education

Variable	Label	Obs	N missing	Mean	Std. Dev.
hheducm	Highest male adult educ	39008	3144	7.9	5.0
hheducf	Highest female adult educ	41455	697	5.6	5.3
hheduc	Highest adult educ	42141	11	8.3	5.1

Constructed Variables: Employment

Variable	Label	Obs	Unique values	Weighted mean	Min	Max
wkany5	HQ work participation (farm, business, wage salary)	204568	5	1.61	0	4
wkfarm	HQ14-16 fm12+ work participation farm	204568	5	0.6	0	4
wkanimal	HQ11 an5+ work participation animals	204568	4	0.56	0	3
wkbusiness	HQ14-16 nf12+ work participation business	204568	5	0.21	0	4
wkaglab	HQ13 7.3 Farm wage labour (5cat)	204568	5	0.27	0	4
wknonag	HQ13 7.3 Nonag wage labour (5cat)	204568	5	0.39	0	4
wknrega	HQ13 7.3 NREGA work (5cat)	204568	5	0.13	0	4
wknonnrega	HQ13 7.3 Nonnrega wage labour (5cat)	204568	5	0.29	0	4
wksalary	HQ13 7.3 Salary position (5cat)	204568	5	0.3	0	4
Nwkany5	HQ10-16 N wk (>=240hrs): any job	42152	14	1.79	0	13
Nwkfarm	HQ10 fm37,38 N wk (>=240hrs): farm	42152	14	0.65	0	13
Nwkanimal	HQ11 an5 N wk (often): animal	42152	9	0.56	0	8
Nwkbusiness	HQ14-16 nf12,13 N wk (>=240hrs): business	42152	8	0.25	0	7
Nwkaglab	HQ13 7.3 N wk (>=240hrs): farm wage	42152	9	0.39	0	8
Nwknonag	HQ13 7.3 N wk (>=240hrs): nonag wage (including NREGA)	42152	8	0.48	0	7
Nwknrega	HQ13 7.3 N wk (>=240hrs): NREGA	42152	7	0.11	0	6
Nwknnonnrega	HQ13 7.3 N wk (>=240hrs): nonag wage not NREGA	42152	8	0.4	0	7
Nwknrega4	HQ13 7.3 N wk, any hours: NREGA	42152	8	0.25	0	8
Nwksalary	HQ13 7.3 N wk (>=240hrs): salary position	42152	8	0.37	0	7

IHDS collected labour force participation data based on its extensive income questions. Within each income section, IHDS asked who in the household participated in this activity and what was their level of participation. Thus, when IHDS asked whether the household owns any animals, it then asked who takes care of these animals. Similarly, if the household farmed, IHDS asked who worked on the farm for how many days last year and how many hours on the usual day. Non-farm businesses were treated similarly. The main household respondent also reported who worked for payment in cash or kind. Interviewers were specifically trained to ask about the participation of women and children as well as adult males in these activities. The combination of information from the different activity streams provides a holistic picture of the types of economic activities undertaken by all individuals in the households in the preceding year.

The public use file summarizes these data in one overall work participation measures (**wkany5**) and eight subtypes of participation (**wkfarm..wkbusiness**) for each individual. **wkany5** includes work in the family farm, the family business, salaried work, agricultural wage labour, and non-agricultural wage labour; It does not include work with household animals.

Wage and salary workers are divided into three types: salary workers (**wksalary**) are paid monthly or annually; agricultural workers (**wkagwage**) are paid daily and report an agricultural occupation (**ws4** = codes 60-68); all other daily wage workers are recorded as nonagricultural wage workers (**wknonag**). A separate variable, **wknrega**, was constructed for participation in the Mahatma Gandhi National Rural Employment Guarantee Scheme; all this MGNREGA work is a sub-category of nonagricultural wage work (and therefore is included as part of **wknonag**). To separate nonagricultural wage work that was not a part of the government employment scheme, there is an additional variable **wknonnrega**.

The individual work variables have five categories:

- 0= none (did not work at this type of employment)
- 1= missing hours (usual hours worked or number days worked was a missing value)
- 2= <240hrs (< 240 hours last year)
- 3= parttime (>= 240 hours last year but not ftyr)
- 4= fulltime yearround (both at least 250 days and at least 2000 hours)

Household-level counts (**Nwkany** .. **Nwkbusiness**) are constructed by adding the number of household members working in each type of activity. For the purposes of the household total measures, an individual must have reported working at least 240 hours in that activity in the last year to be coded as working.

Both the individual work participation measures (**wkany**..**wkbusiness**) and the household counts (**Nwkany** .. **Nwkbusiness**) are in the individual and eligible women files. Only the household counts are in the household file.

Constructed Variables: Household assets and housing

Variable	Label	Obs	Unique values	Mean	Min	Max
assets	Total hh assets (0-33)	42129	34	15.44	0	33
assets2005	Total hh assets as in IHDS-I (0-30)	42129	31	14.85	0	30

IHDS asked a series of questions about what goods the household owned and about the quality of the housing. Similar housing and consumer goods questions are now widely used in developing country surveys as an easily administered scale measuring household economic level. Even more than consumption expenditures, household asset scales reflect the long-term economic level of the household.

The **hassets** scale sums 33 dichotomous items measuring household possessions and housing quality:

Variable	Description	Question naire	Page	Sect.	Q#	Mean
cgvehicle	Any vehicle, bicycle+	IS	26	15	4	0.67
cg5	Sewing Machine	IS	26	15	5	0.26
cg6	Generator set	IS	26	15	6	0.02
cg7	Mixer/Grinder	IS	26	15	7	0.34
cgmotorv	Motor Vehicle, motorcycle+	IS	26	15	8	0.30
cgTV	TV (black & white or colour)	IS	26	15	9	0.65
cg10	Color TV	IS	26	15	10	0.61
cgcooling	Air cooler or AC	IS	26	15	11	0.18
cg12	Clock/watch	IS	26	15	12	0.86
cg13	Electric fan	IS	26	15	13	0.75
cg14	Chair or table	IS	26	15	14	0.78
cg15	Cot	IS	26	15	15	0.89
cg16	Telephone	IS	26	15	16	0.08
cg17	Mobile phone	IS	26	15	17	0.80
cg18	Fridge/Refrigerator	IS	26	15	18	0.28
cg19	Pressure cooker	IS	26	15	19	0.54
cg20	Cable/Dish TV	IS	26	15	20	0.53
cg21	Car	IS	26	15	21	0.05
cg22	Air Conditioner	IS	26	15	22	0.02
cg23	Washing Machine	IS	26	15	23	0.10
cgcomputer	Computer/Laptop	IS	26	15	24	0.07
cg25	Laptop	IS	26	15	25	0.03
cg26	Credit Card	IS	26	15	26	0.03
cg27	Microwave Oven	IS	26	15	27	0.02
cg28	2 Clothes	IS	26	15	28	0.99

cg29	Footwear	IS	26	15	29	0.98
fu1	Electricity	EH	10	7	1	0.87
fuLPG	LPG	EH	11	7	11	0.47
water	Indoor piped drinking water	EH	9	5	1	0.32
sakitchen	Separate kitchen	EH	10	6	2	0.59
satoilet	Flush toilet	EH	10	6	4	0.40
hqwall	Pucca roof	EH	35	23	4	0.71
hqroof	Pucca wall	EH	35	23	5	0.65
hqfloor	Pucca floor	EH	35	23	6	0.65

The **hhassets** scale has a Cronbach's reliability coefficient alpha of 0.914 (unweighted). Three items that had been candidates for the scale were dropped because they substantially lowered the reliability coefficient suggesting that they did not measure the same dimension as the remaining 34 items; **cg6** owns a generator; **hq2a** any excrement observe around the house; and **hq2b** any standing water around the house.

Four consumer goods items were modified because they were less expensive alternatives for other items in the scale: **cg11** air coolers (vs. **cg22** air conditioners); **cg9** a black and white television (vs. **cg10** a colour television); **cg8** a motor scooter (vs. **cg21** an automobile); and a **cg4** bicycle (vs. a **cg8**scooter or **cg21** automobile). In these cases, if the household owned the more expensive alternative (e.g., an air conditioner), then the less expensive item (e.g., air cooler) was recoded as owned, regardless of whether the household reported owning the less desirable item. Without this modification, the less expensive items did not scale well; a household might not own them either because they were too affluent (and owned the more expensive alternative) or because they were too poor (and owned neither alternative).

The resulting **hhassets** scale ranges from 0 to 34, with a weighted median of 15, a weighted mean of 14.6, and a weighted standard deviation of 6.7.

Constructed Variables: Income

Variable	Label	Obs	Unique Values	Mean (unwtd.)	Min	Max
income	HQ Total income	42152	15784	1,27,759.8	-10,37,040	1,13,60,000
incag	HQ7-10 Income from agriculture minus expenses	42152	9658	23,275.7	-9,09,625	1,10,00,000
incbus	HQ14-16 8.5,25,45 All businesses: Net income	42152	1752	18,838.6	-10,50,000	1,14,00,000
incnonag	HQ13 7.3 income: nonag wage	42152	3018	16,768.5	0	7,36,000
incaglab	HQ13 7.3 income: farm wage	42152	1470	6,935.1	0	3,26,900
incsalary	HQ13 7.3 income: salary position	42152	2747	42,962.8	0	34,80,000
incbenefits	HQ17 9.5+13,1-8 all govt benefits	42152	719	1,283.0	0	5,00,000
incremit	HQ5 3.13a Rs received from nonres	42152	279	6270.0	0	9,50,000
incother	HQ17 9.1-3 Property, pensions	42152	618	8,512.8	0	36,12,000

Both IHDS-I and IHDS-II collected detailed income data. Most developing country surveys depend on consumption expenditures or household assets to measure a household's economic level. IHDS collected those data also (see above), but went to great lengths to measure household income as well. Over 50 different income sources were queried. The public use file collects those sources into eight major income types (**incag** .. **incother**) plus a total income variable (**income**). All are household-level variables but all are included in both the household and individual data files.

The most difficult income source to estimate is farm income (**incag**). Over half of IHDS households had some farm income, so this is an important component of the total income estimate. IHDS asked about crop production and prices, use of crop residues, animal ownership and home-produced animal and crop products, expenses for a variety of farm inputs, and agricultural rents paid and received. IHDS staff continue to work on refining these data to produce the best income estimates possible.

Negative farm income is reported by about 11 percent of the sample. Crop failures and high expenses are a frequent source of debate in India so this estimate seems reasonable. Negative farm incomes result in negative total income estimates for about 1 percent of the households.

Wage and salary incomes were summed across all jobs of all individuals in the household. Annual totals were estimated using the report of days worked for workers paid daily wages or monthly salaries. Meals, housing benefits, and bonuses are included in these totals. The public use file divides wage and salary incomes into three subtypes: **incsalary** salary income is defined as income earned monthly or annually (rather than daily); **incagwage** agricultural wages are the total daily wages of workers with agricultural occupations; and **incnonag** nonagricultural wages are all other daily wages

Remittances (**incredit**) were totaled from item 3.13a of the non-resident schedule (page 5 of the Income & Social Capital questionnaire).

Nonfarm business income (**incbus**) was sometimes reported only as net income without specifying gross income and expenses. Therefore, net business income does not always equal gross business income minus expenses.

IHDS also collected data on several sources of cash and noncash support not included in the total income estimate because these sources are not properly defined as income. For example, about 2% of households sold some land in the previous year (**in4a** and **in4b**); and 2% received insurance payments and other payments (**in7**). These data are available in the IHDS files but are not included as income.

The following table details some of the income sources used to calculate total income:

Variable	Description	Mean all hh	% with nonzero income	Max
income	Total income	1,27,760	99	1,14,00,000
incearn	Wages & salaries with bonuses	91,535	73	34,80,000
ws10hh	Annual Rs from daily/monthly wage	87,978	73	34,80,000
ws11mealshh	Meals	474	10	30,000
ws11househh	Housing	783	3	1,62,000
ws12hh	Bonuses	673	10	1,00,000
incsalary	salaries (monthly/annual pay)	42,963	31	34,80,000
incaglab	agricultural wages	6,935	25	3,26,900
incnonag	nonagricultural wages	16,768	39	7,36,000
incnrega	MGNREGA income	855	15	1,00,000
incnonnrega	nonag wage income not MGNREGA	15,926	30	7,36,000
incbus	All businesses: Net income	1,04,358	21	1,14,00,000
incag	Net agriculture income (crops, animals, agprop)	23,276	42	1,10,00,000
inccrop	Crop income minus expenses	18,740		
fm22Rshh	Crop income	27,413	38	1,12,00,000
fm26a	Crop residue total value	1,517	33	9,50,000
fm26b	Crop residue sold	240	6	2,56,000
fm26c	Crop residue kept for own use	1,278	30	9,50,000
fmexpense	total farm expenses exc. rent	8,603	39	11,39,300
fm27b	Hired farm labor Rs	2,272	22	5,00,000
fm27Rs	Rs paid to agriculture laborer	2,322	22	5,00,000
fm28a	Seed cost	1,479	37	6,03,500
fm29	Fertilizer cost	1,977	37	7,20,000
fm30	Pesticides cost	672	26	2,50,000
fm31	Irrigation cost	333	12	4,00,000
fm32	Hired equipment or animals	1,063	29	2,00,000
fm33	Agriculture loan repayment	304	3	71,000
fm34	Miscellaneous expenses	711	18	2,00,000

incanimal	Market + home - cost	2,797	41	7,25,200
animalmkt	animal products sold	2,855	17	10,40,000
animalhome	animal products home-produced	3,637	22	2,70,000
animalcost	animal feed, veterinary, labor costs	3,695	40	5,48,000
an3a1	Fodder purchased	1,871	29	5,00,000
an3a2	Fodder homegrown	1,418	30	1,60,000
an3b1	Veterinary cost	198	20	56,000
an3b2	Grazing labour cost	115	2	1,00,000
an3b3	Other animal costs	93	32	30,000
incagprop	Land, other rented out	4,092	8	9,30,000
fm14b	Land rented out	12,773	3	9,30,000
fm14d	Crop Rs land rented out	6,207	3	7,10,000
fm41b	Equipment rented out	571	2	3,00,000
fm41c	Other farm income	663	2	8,00,000
fmrent	Agricultural rents	1,587	6	16,05,800
fm15b	Land rented in	10,953	2	9,00,000
fm23Rshh	Production to land lord	734	4	16,00,000
incremit	Annual remittances received	47,220	13	9,50,000
incother	Income from property, pensions	8,516	11	36,12,000
in1	Renting property	1,620	3	36,00,000
in2	Interest, dividends	255	2	5,50,000
in3a	Government pensions	6,400	7	8,40,000
in3b	Private pensions	241	1	5,04,000
incbenefits	All government & NGO benefits	1283	34	5,00,000
in5	Scholarship/ gifts	412	19	5,00,000
in13s1	Old Age Pension	436	9	36,000
in13s2	Widows Pension	210	5	19,000
in13s3	Maternity Benefit	43	3	12,700
in13s4	Disability Pension	66	1	24,000
in13s5	Annapurna	4	0	20,000
in13s6	Other govt. sources	15	0	25,000
in13s7	NGOs	22	0	54,000
in13s8	Other	76	1	80,000
Non-income cash flow				
in4a	Sale non-ag land	1539	1	99,00,000
in4b	Sale ag land	1871	1	40,00,000
in6	Other govt. sources	285	3	18,00,000
in7	Other sources	1061	2	15,00,000

Constructed Variables: Poverty

Variable	Label	Obs	Unique values	Mean	Std. Dev.	Min	Max
poor	Expenditure/ capita < poverty line (Tendulkar, 2012)	42129	2	0.16419	0.37045	0	1
povline2012	Tendulkar poverty line, adjusted for month of interview	42152	92	940.67	132.01	695	1398

IHDS calculated household poverty based on the monthly consumption per capita (**copc**, see Consumption) and the Tendulkar poverty line, 2012. **poor** is a dichotomous (0/1) variable indicating whether the household is below this poverty line or not. Users can calculate a poverty line ratio by dividing the monthly consumption per capita (**copc**) by Tendulkar poverty line, 2012 (**povline2012**).

The poverty line varies by state and whether the household is rural or urban. Because of the rapid inflation during 2012 while the survey was in the field, we adjusted the poverty line for the month of the interview.

Constructed Variables: Social Groups

Variable	Label	Obs	Unique values	Mean	Min	Max
groups8	Caste/religion 8 categories	42129	8	3.59	1	8

India has a vast array of jatis (castes) and religions. IHDS asked four questions about the household's caste, sub caste and religion all from page 3 of the Income & Social Capital questionnaire:

id11 asked the religion of the household head seven commonly reported categories (Hindu, Muslim, Christian, Sikh, Buddhist, Jain, and Tribal), plus a residual "Other" category and "None".

id12anm and **id12bnm** records the caste and subcaste of the household informant as reported to the interviewer (e.g., chamar, thakur, bania) however it was listed by the interviewer.

id13 asked the household informant to classify these many responses into one of four commonly used categories: Brahmin, OBC (Other Backward Classes), SC (Scheduled Castes, dalits), and ST (Scheduled Tribes, adivasis), plus a residual "Other" category.

For some overview purposes, it is useful to collapse religion and caste into a single composite variable. (However, IHDS staff analyses have shown that using *both* religion and caste *separately* is generally more informative when analyses permit – "caste" distinctions among non-Hindus are often substantial.) For an overview religion and caste variable, IHDS includes groups8:

		unweighted frequencies	weighted percentage
1	Brahmins	2,175	4.9%
2	Forward castes	7,037	15.5%
3	OBCs	14,286	35.8%
4	Dalits	8,941	22.1%
5	Adivasis	3,644	8.3%
6	Muslims	4,843	11.4%
7	Sikhs, Jains	587	0.8%
8	Christians	616	1.3%

To combine caste and religion, this code follows these rules of precedence:

- Dalits and Adivasis are coded as 4s and 5s, regardless of religion (**id11**);
- Except for a above, Muslims, Jains, and Christians are coded as 6s, 7s, and 8s, regardless of caste (**id13**);
- Except for a above, Sikhs are coded as 3 if OBC, otherwise as 7;
- Hindus are coded as 1-4 according to caste (**id13**).

Users can devise their own combination if they choose, but we repeat the advice to use both religion and caste codes separately whenever possible.

Variables

Variable Names

All IHDS variables (except constructed variables) are named with a two letter code for the section followed by the questions number (e.g., fm14a is from question 14a in the farm section). Variables names are given in the questionnaire .pdf files and in the codebooks.

Variable Labels

Labels for variables record:

- on which questionnaire the variable is located;
- the page number of the questionnaire
- the section number
- the question number,
- a very brief description.

For example “IS3 1.13 Caste category” , the variable label for id13, is from the Income & Social Capital questionnaire, page 3, section 1 (“identification”), question 13.

Codebooks

Detailed codebook available are as separate files:

- 36151-0002-Codebook.pdf for the household file,
- 36151-0001-Codebook.pdf for the individual file,
- 36151-0003-Codebook.pdf for the eligible woman file.

Questionnaires

The questionnaires are available as .pdf files from the website (<http://ihds.umd.edu/ihds/questionnaires2012.html>):

1. Income & Social Capital (Roster and Economic Data) Questionnaire (ihdsisq.pdf)
2. Education and Health Questionnaire (ihdsehq.pdf)
3. Reading and Arithmetic Tests (not yet available)
4. Village Questionnaire (not yet available)
5. Health Facility Questionnaire (not yet available)
6. School Questionnaire (not yet available)
7. Tracking Sheet (not yet available)

[a list of variables will be added later]

Topics

Topics	Q	Sect #	Variable code	hh file Nvar	ind file Nvar	ew file Nvar
Case and Geographic Ident	IS			14	15	15
Constructed Variables	IS			30	38	38
Household cover sheet	IS		hc	9		
Consent form	IS		hs	4		
Household identification	IS	1	id	16		2
Household Roster	IS	2	ro		8	5
Non-resident family members	IS	3	nr			
Migration	IS	4	mg		21	
Farm	IS	5	fm	84	6	4
Animals	IS	6	an	21	4	2
Wage and Salary	IS	7	ws	4	33	4
Nonfarm business	IS	8	nf	62	21	6
Other income	IS	9	in	41	23	
Ration card	IS	10	rc	17		
Education	IS	11	ed		14	5
About Youth	IS	12	yq			
Mass media	IS	13	mm	14	6	
Consumption	IS	14	co	111	2	
Consumer goods	IS	15	cg	35		
Debts	IS	16	db	39		
Social Networks	IS	17	sn	24		
Membership in organizations	IS	18	me	15		
Trust and conflict	IS	19	tr	6		
Crime	IS	20	lc	4		
Confidence in institutions	IS	21	ci	12		
Major Incidences	IS	22	mi	8		
Household identification	IS	23	cc			
Observations (hh interview)	IS	24	oh	21		
Anthropometry	IS	25	ap		7	6
Learning	IS	26	ta		11	
Health and education cover	EH		ge	10		8
Consent form	EH		cd	4		9
Health and education identification	EH	1	hi	1		1
Current Students	EH	2	cs		26	
Children 8-11 schooling	EH	3	ch		21	
Marriage practices	EH	4	mp	35		35
Water	EH	5	wa	19		
Sanitation	EH	6	sa	10		
Fuels and energy	EH	7	fu	38		
Short Term Morbidity	EH	8	sm		21	
Major Morbidity	EH	9	mb		28	
Activities of Daily Living	EH	10	ad		7	
Quality of medical care	EH	11	qc	11		11
Tobacco and Alcohol	EH	12	to		4	
Observation (part 1)	EH	13	o	6		
Eligible woman information	EH	14	ew		3?	38
Health beliefs	EH	15	hb			8
Aids information	EH	16	ai			10
Gender relations	EH	17	gr		1	131
Marital history	EH	18	mh	1	1	40
Fertility history	EH	19	fh	1	1	16
Birth history (contd.)	EH	20	bh			
Fertility preferences	EH	21	fp			14
Natal care Last birth	EH	22	lb			147
Housing quality	EH	23	hq	10		
Observations (ew survey)	EH	24	og	15		15
Anthropometry	EH	25	ap		7	6
Learning	EH	26	ta		11	

NATIONAL CLASSIFICATION OF OCCUPATIONS-1968

DIVISION 0-1: PROFESSIONAL, TECHNICAL AND RELATED WORKERS

Group	00	Physical Scientists
	01	Physical Science Technicians
	02	Architects, Engineers, Technologists and Surveyors
	03	Engineering Technicians
	04	Aircraft and Ships Officers
	05	Life Scientists
	06	Life Science Technicians
	07	Physicians and Surgeons (Allopathic Dental and Veterinary Surgeons)
	08	Nursing and other Medical and Health Technicians
	09	Scientific, Medical and Technical Persons, Other
	10	Mathematicians, Statisticians and Related Workers
	11	Economists and Related Workers
	12	Accountants, Auditors and Related Workers
	13	Social Scientists and Related Workers
	14	Jurists
	15	Teachers
	16	Poets, Authors, Journalists and Related Workers
	17	Sculptors, Painters, Photographers and Related Creative Artists
	18	Composers and Performing Artists
	19	Professional Workers, n.e.c.

DIVISION 2: ADMINISTRATIVE, EXECUTIVE AND MANAGERIAL WORKERS

Group	20	Elected and Legislative Officials
	21	Administrative and Executive Officials Government and Local Bodies
	22	Working Proprietors, Directors and Managers, Wholesale and Retail Trade
	23	Directors and Managers, Financial Institutions
	24	Working Proprietors, Directors and Managers Mining, Construction, Manufacturing and Related Concerns
	25	Working Proprietors, Directors, Managers and Related Executives, Transport, Storage and Communication
	26	Working Proprietors, Directors and Managers, Other Service
	29	Administrative, Executive and Managerial Workers, n.e.c.

DIVISION 3: CLERICAL AND RELATED WORKERS

Group	30	Clerical and Other Supervisors
	31	Village Officials
	32	Stenographers, Typists and Card and Tape Punching Operators
	33	Book-keepers, Cashiers and Related Workers
	34	Computing Machine Operators
	35	Clerical and Related Workers, n.e.c.
	36	Transport and Communication Supervisors
	37	Transport Conductors and Guards

38 Mail Distributors and Related Workers

39 Telephone and Telegraph Operators

DIVISION 4: SALES WORKERS

Group 40 Merchants and Shopkeepers, Wholesale and Retail Trade
 41 Manufacturers, Agents
 42 Technical Salesmen and Commercial Travellers
 43 Salesmen, Shop Assistants and Related Workers
 44 Insurance, Real Estate, Securities and Business Service Salesmen
 and Auctioneers
 45 Money Lenders and Pawn Brokers
 49 Sales Workers, n.e.c.

DIVISION 5: SERVICE WORKERS

Group 50 Hotel and Restaurant Keepers
 51 House Keepers, Matron and Stewards (Domestic and Institutional)
 52 Cooks, Waiters, Bartenders and Related Worker (Domestic and
 Institutional)
 53 Maids and Other House Keeping Service Workers n.e.c.
 54 Building Caretakers, Sweepers, Cleaners and Related Workers
 55 Launderers, Dry-cleaners and Pressers
 56 Hair Dressers, Barbers, Beauticians and Related Workers
 57 Protective Service Workers
 59 Service Workers, n.e.c.

**DIVISION 6: FARMERS, FISHERMEN, HUNTERS, LOGGERS AND RELATED
 WORKERS**

Group 60 Farm Plantation, Dairy and Other Managers and Supervisors
 61 Cultivators
 62 Farmers other than Cultivators
 63 Agricultural Labourers
 64 Plantation Labourers and Related Workers
 65 Other Farm Workers
 66 Forestry Workers
 67 Hunters and Related Workers
 68 Fishermen and Related Workers

**DIVISION 7-8-9: PRODUCTION AND RELATED WORKERS, TRANSPORT
 EQUIPMENT OPERATORS AND LABOURERS**

Group 71 Miners, Quarrymen, Well Drillers and Related Workers
 72 Metal Processors
 73 Wood Preparation Workers and Paper Makers
 74 Chemical Processors and Related Workers
 75 Spinners, Weavers, Knitters, Dyers and Related Workers
 76 Tanners, Fellmongers and Pelt Dressers
 77 Food and Beverage Processors
 78 Tobacco Preparers and Tobacco Product Makers
 79 Tailors, Dress Makers, Sewers, Upholsterers and Related Workers
 80 Shoe makers and Leather Goods Makers
 81 Carpenters, Cabinet and Related Wood Workers

- 82 Stone Cutters and Carvers
- 83 Blacksmiths, Tool Makers and Machine Tool Operators
- 84 Machinery Fitters, Machine Assemblers and Precision Instrument Makers (except Electrical)
- 85 Electrical Fitters and Related Electrical and Electronic Workers
- 86 Broadcasting Station and Sound Equipment Operators and Cinema Projectionists
- 87 Plumbers, Welders, Sheet Metal and Structural Metal Preparers and Erectors
- 88 Jewellery and Precious Metal Workers and Metal Engravers (Except Printing)
- 89 Glass Formers, Potters and Related Workers
- 90 Rubber and Plastic Product Makers
- 91 Paper and Paper Board Products Makers
- 92 Printing and Related Workers
- 93 Painters
- 94 Production and Related Workers, n.e.c.
- 95 Bricklayers and Other Constructions Workers
- 96 Stationery Engines and Related Equipment Operators, Oilers and Greasers
- 97 Material Handling and Related Equipment Operators, Loaders and Unloaders
- 98 Transport Equipment Operators
- 99 Labourers, n.e.c.

DIVISION X WORKERS NOT CLASSIFIED BY OCCUPATION

NATIONAL INDUSTRIAL CLASSIFICATION (NIC)-1987

This classification groups the industries into:

10	Sections (0 to 9 and `X')
73	Divisions

The sections and divisions with their code numbers are listed below:

DIVISIONS

(Two-digit level of classification)

SECTION 0: AGRICULTURE, HUNTING, FORESTRY AND FISHING

00	Agricultural production
01	Plantations
02	Raising of livestock
03	Agricultural services
04	Hunting, trapping and game propagation
05	Forestry and logging
06	Fishing (including collection of sea products)

SECTION 1: MINING AND QUARRYING

10	Mining of coal and lignite, extraction of peat
11	Extraction of crude petroleum, production of Natural gas
12	Mining of iron ore
13	Mining of metal ores other than iron ore
14	Mining of uranium and thorium ores
15	Mining of Non-metallic minerals not elsewhere classified
19	Mining services not elsewhere classified

SECTION 2 AND 3: MANUFACTURING

20-21	Manufacture of food products
22	Manufacture of beverages, tobacco and related products
23	Manufacture of cotton textiles
24	Manufacture of wool, silk and man-made fibre textiles
25	Manufacture of jute and other vegetable fibre textiles (except cotton)
26	Manufacture of textile products (including wearing apparel)
27	Manufacture of wood and wood products, furniture and fixtures
28	Manufacture of paper and paper products and printing, publishing and allied industries
29	Manufacture of leather and products of leather, fur substitutes of leather
30	Manufacture of basic chemical and chemical products (except products of petroleum and coal)
31	Manufacture of rubber, plastic, petroleum and coal products, processing of nuclear fuels
32	Manufacture of non-metallic mineral products

- 33 Basic metal and alloys industries
 - 34 Manufacture of metal products and parts except machinery and equipment
 - 35-36 Manufacture of machinery and equipment other than transport equipment (manufacture of scientific equipment, photographic/cinematographic equipment and watches and clocks is classified in Division 38)
 - 37 Manufacture of transport equipment and parts
 - 38 Other manufacturing industries
 - 39 Repair of capital goods
- SECTION 4: ELECTRICITY, GAS AND WATER**
- 40 Electricity generation, transmission and distribution
 - 41 Gas and steam generation and distribution through pipes
 - 42 Water works and supply
 - 43 Non-conventional energy generation and distribution
- SECTION 5: CONSTRUCTION**
- 50 Construction
 - 51 Activities allied to construction
- SECTION 6: WHOLESALE, RETAIL TRADE AND RESTAURANTS, HOTELS**
- 60 Wholesale Trade in agricultural raw materials, live animals food, beverages, intoxicants and textiles
 - 61 Wholesale trade in wood, paper, skin, leather and fur, fuel, petroleum, chemicals, perfumery, ceramics, glass and ores and metals
 - 62 Wholesale trade in all types of machinery equipment including transport equipment
 - 63 Wholesale trade not elsewhere classified
 - 64 Commission agents
 - 65 Retail trade in food and food articles, beverages, tobacco and intoxicants (Note-Non-specialised retail trade establishments such as departmental stores super bazars and central stores are classified in group 688 along with non-store retail sale establishments engaged in house-to-house other ambulant sales)
 - 66 Retail trade in textiles
 - 67 Retail trade in fuels and other household utilities and durables
 - 68 Retail trade n.e.c.
 - 69 Restaurants and hotels
- SECTION 7: TRANSPORT, STORAGE AND COMMUNICATION**
- 70 Land transport
 - 71 Water transport
 - 72 Air transport
 - 73 Services incidental to transport n.e.c.
 - 74 Storage and warehousing services
 - 75 Communication services

SECTION 8: FINANCING, INSURANCE, REAL ESTATE & BUSINESS SERVICES

- 80 Banking activities including financial services
- 81 Provident and insurance services
- 82 Real estate activities
- 83 Legal services
- 84 Operation of lotteries
- 85 Renting and leasing (Financial leasing is classified in financial activities) not else where classified
- 89 Business services not elsewhere classified

SECTION 9: COMMUNITY, SOCIAL AND PERSONAL SERVICES

- 90 Public administration and defence services
- 91 Sanitary services
- 92 Education, scientific and research services
- 93 Health and medical services
- 94 Community services
- 95 Recreational and cultural services
- 96 Personal services
- 97 Repair services
- 98 International and other extra territorial bodies
- 99 Services not elsewhere classified

SECTION 10: ACTIVITIES NOT ADEQUATELY DEFINED

District Codes

2001 District Codes

State	District
1 Jammu & Kashmir	2 Baramula
1 Jammu & Kashmir	3 Srinagar
1 Jammu & Kashmir	5 Pulwama
1 Jammu & Kashmir	12 Rajauri
1 Jammu & Kashmir	13 Jammu
2 Himachal Pradesh	1 Chamba
2 Himachal Pradesh	2 Kangra
2 Himachal Pradesh	4 Kullu
2 Himachal Pradesh	5 Mandi
2 Himachal Pradesh	6 Hamirpur
2 Himachal Pradesh	8 Bilaspur
2 Himachal Pradesh	9 Solan
2 Himachal Pradesh	10 Sirmaur
2 Himachal Pradesh	11 Shimla
3 Punjab	1 Gurdaspur
3 Punjab	2 Amritsar
3 Punjab	3 Kapurthala
3 Punjab	4 Jalandhar
3 Punjab	5 Hoshiarpur
3 Punjab	6 Nawanshahr
3 Punjab	7 Rupnagar
3 Punjab	8 Fatehgarh
3 Punjab	9 Ludhiana
3 Punjab	10 Moga
3 Punjab	11 Ferozpur
3 Punjab	16 Sangrur
3 Punjab	17 Patiala
4 Uttarakhand	4 Chandigarh
5 Uttarakhand	5 Dehradun
5 Uttarakhand	8 Bageshwar
5 Uttarakhand	9 Almora
5 Uttarakhand	11 Nainital
5 Uttarakhand	12 Udham Singh Nagar
5 Uttarakhand	13 Hardwar
6 Haryana	1 Panchkula
6 Haryana	2 Ambala
6 Haryana	3 Yamunanagar
6 Haryana	4 Kurukshetra
6 Haryana	5 Kaithal
6 Haryana	6 Karnal
6 Haryana	8 Sonapat
6 Haryana	9 Jind

2001 District Codes

State	District
6 Haryana	10 Fatehabad
6 Haryana	12 Hissar
6 Haryana	13 Bhiwani
6 Haryana	17 Rewari
6 Haryana	18 Gurgaon
6 Haryana	19 Faridabad
7 Delhi	0 Delhi
8 Rajasthan	3 Bikaner
8 Rajasthan	4 Churu
8 Rajasthan	5 Jhunjhunu
8 Rajasthan	6 Alwar
8 Rajasthan	7 Bharatpur
8 Rajasthan	8 Dhaulpur
8 Rajasthan	9 Karauli
8 Rajasthan	10 Sawai Madhopur
8 Rajasthan	11 Dausa
8 Rajasthan	12 Jaipur
8 Rajasthan	13 Sikar
8 Rajasthan	14 Nagaur
8 Rajasthan	15 Jodhpur
8 Rajasthan	18 Jalor
8 Rajasthan	20 Pali
8 Rajasthan	21 Ajmer
8 Rajasthan	24 Bhilwara
8 Rajasthan	25 Rajsamand
8 Rajasthan	26 Udaipur
8 Rajasthan	29 Chittaurgarh
8 Rajasthan	30 Kota
8 Rajasthan	31 Baran
8 Rajasthan	32 Jhalawar
9 Uttar Pradesh	1 Saharanpur
9 Uttar Pradesh	2 Muzaffarnagar
9 Uttar Pradesh	3 Bijnor
9 Uttar Pradesh	4 Moradabad
9 Uttar Pradesh	5 Rampur
9 Uttar Pradesh	6 Jyotiva Phule Nagar
9 Uttar Pradesh	7 Meerut
9 Uttar Pradesh	9 Ghaziabad
9 Uttar Pradesh	10 Gautam Buddha Nagar
9 Uttar Pradesh	13 Hathras
9 Uttar Pradesh	14 Mathura
9 Uttar Pradesh	15 Agra
9 Uttar Pradesh	19 Budaun
9 Uttar Pradesh	20 Bareilly

2001 District Codes

State	District
9	Uttar Pradesh 23 Kheri
9	Uttar Pradesh 24 Sitapur
9	Uttar Pradesh 28 Lucknow
9	Uttar Pradesh 29 Farrukabad
9	Uttar Pradesh 30 Kannauj
9	Uttar Pradesh 33 Kanpur Dehat
9	Uttar Pradesh 34 Kanpur Nagar
9	Uttar Pradesh 36 Jhansi
9	Uttar Pradesh 40 Banda
9	Uttar Pradesh 41 Chitrakoot
9	Uttar Pradesh 43 Fatehpur
9	Uttar Pradesh 44 Kaushambi
9	Uttar Pradesh 45 Allahabad
9	Uttar Pradesh 46 Barabanki
9	Uttar Pradesh 47 Faizabad
9	Uttar Pradesh 48 Ambedkar Nagar
9	Uttar Pradesh 49 Sultanpur
9	Uttar Pradesh 50 Bahraich
9	Uttar Pradesh 51 Sharawasti
9	Uttar Pradesh 54 Siddharathnagar
9	Uttar Pradesh 58 Gorakhpur
9	Uttar Pradesh 59 Kushinagar
9	Uttar Pradesh 60 Deoria
9	Uttar Pradesh 62 Mau
9	Uttar Pradesh 63 Baliya
9	Uttar Pradesh 65 Ghazipur
9	Uttar Pradesh 66 Chandauli
9	Uttar Pradesh 67 Varanasi
9	Uttar Pradesh 68 Sant Ravidas Nagar
10	Bihar 2 Purbi Champaran
10	Bihar 5 Madhubani
10	Bihar 6 Supaul
10	Bihar 9 Purnia
10	Bihar 12 Saharsa
10	Bihar 14 Muzaffar Pur
10	Bihar 16 Siwan
10	Bihar 17 Saran
10	Bihar 22 Bhagal Pur
10	Bihar 23 Banka
10	Bihar 26 Sheikhpura
10	Bihar 27 Nalanda
10	Bihar 28 Patna
10	Bihar 30 Buxar
10	Bihar 31 Kaimur (Bhabua)

2001 District Codes

State	District
10 Bihar	32 Rohtas
10 Bihar	35 Gaya
11 Sikkim	0 Sikkim
12 Arunachal	0 Arunachal
13 Nagaland	0 Nagaland
14 Manipur	0 Manipur
15 Mizoram	0 Mizoram
16 Tripura	0 Tripura
17 Meghalaya	0 Meghalaya
18 Assam	2 Dhubri
18 Assam	3 Goalpara
18 Assam	6 Kamrup
18 Assam	9 Marigaon
18 Assam	14 Tinsukia
18 Assam	17 Jorhat
18 Assam	19 Karbi Amglong
18 Assam	21 Cachar
19 West Bengal	1 Darjiling
19 West Bengal	2 Jalapiguri
19 West Bengal	4 Uttar Dinajpur
19 West Bengal	6 Maldah
19 West Bengal	7 Murshidabad
19 West Bengal	8 Birbhum
19 West Bengal	9 Barddhaman
19 West Bengal	10 Nadia
19 West Bengal	11 North 24 Parganas
19 West Bengal	12 Hugli
19 West Bengal	13 Bankura
19 West Bengal	16 Haora
19 West Bengal	17 Kolkata
19 West Bengal	18 South 24 Parganas
20 Jharkhand	2 Palamu
20 Jharkhand	12 Dhanbad
20 Jharkhand	13 Bokaro
20 Jharkhand	14 Ranchi
20 Jharkhand	17 Pashchimi Singbhum
20 Jharkhand	18 Purbi Singbhum
21 Orissa	1 Bargarh
21 Orissa	2 Jharsuguda
21 Orissa	3 Sambalpur
21 Orissa	5 Sundargarh
21 Orissa	6 Kendujhar
21 Orissa	7 Mayurbhanj
21 Orissa	8 Baleshwar

2001 District Codes

State	District
21 Orissa	9 Bhadrak
21 Orissa	12 Cuttack
21 Orissa	13 Jajapur
21 Orissa	14 Dhenkanal
21 Orissa	15 Anugul
21 Orissa	16 Nayagarh
21 Orissa	17 Khordha
21 Orissa	18 Puri
21 Orissa	19 Ganjam
21 Orissa	20 Gajapati
21 Orissa	21 Kandhamal
21 Orissa	22 Baudh
21 Orissa	23 Sonapur
21 Orissa	24 Balangir
21 Orissa	26 Kalahandi
21 Orissa	27 Rayagada
21 Orissa	28 Nabarangapur
21 Orissa	29 Koraput
21 Orissa	30 Malkangiri
22 Chhattisgarh	1 Koriya
22 Chhattisgarh	2 Sarguja
22 Chhattisgarh	3 Jashpur
22 Chhattisgarh	4 Raigarh
22 Chhattisgarh	5 Korba
22 Chhattisgarh	6 Janjgir
22 Chhattisgarh	7 Bilas Pur
22 Chhattisgarh	8 Kawardha
22 Chhattisgarh	9 Rajnandgaon
22 Chhattisgarh	10 Durg
22 Chhattisgarh	11 Raipur
22 Chhattisgarh	12 Mahasamund
22 Chhattisgarh	13 Dhamtari
22 Chhattisgarh	14 Kanker
22 Chhattisgarh	15 Bastar
23 Madhya Pradesh	1 Sheopur
23 Madhya Pradesh	2 Morena
23 Madhya Pradesh	4 Gwalior
23 Madhya Pradesh	5 Datia
23 Madhya Pradesh	8 Tikamgarh
23 Madhya Pradesh	9 Chhatarpur
23 Madhya Pradesh	10 Panna
23 Madhya Pradesh	12 Damoh
23 Madhya Pradesh	13 Satna
23 Madhya Pradesh	15 Umaria

2001 District Codes

State	District
23 Madhya Pradesh	16 Shahdol
23 Madhya Pradesh	17 Sidhi
23 Madhya Pradesh	20 Ratlam
23 Madhya Pradesh	21 Ujjain
23 Madhya Pradesh	22 Shajapur
23 Madhya Pradesh	23 Dewas
23 Madhya Pradesh	25 Dhar
23 Madhya Pradesh	26 Indore
23 Madhya Pradesh	27 West Nimar
23 Madhya Pradesh	28 Barwani
23 Madhya Pradesh	29 East Nimar
23 Madhya Pradesh	30 Rajgarh
23 Madhya Pradesh	32 Bhopal
23 Madhya Pradesh	35 Betul
23 Madhya Pradesh	36 Harda
23 Madhya Pradesh	37 Hoshangabad
23 Madhya Pradesh	38 Katni
23 Madhya Pradesh	39 Jabalpur
23 Madhya Pradesh	41 Dindori
23 Madhya Pradesh	42 Mandla
23 Madhya Pradesh	44 Seoni
24 Gujarat	1 Kachchh
24 Gujarat	3 Patan
24 Gujarat	4 Mahesana
24 Gujarat	6 Gandhinagar
24 Gujarat	7 Ahmedabad
24 Gujarat	8 Surendranagar
24 Gujarat	9 Rajkot
24 Gujarat	10 Jamnagar
24 Gujarat	12 Junagadh
24 Gujarat	13 Amreli
24 Gujarat	14 Bhavnagar
24 Gujarat	15 Anand
24 Gujarat	16 Kheda
24 Gujarat	19 Vadodara
24 Gujarat	20 Narmada
24 Gujarat	21 Bharuch
24 Gujarat	22 Surat
25 Daman & Diu	0 Daman & Diu
26 Dadra & Nagar Haveli	0 Dadra & Nagar Haveli
27 Maharashtra	1 Nandurbar
27 Maharashtra	2 Dhule
27 Maharashtra	3 Jalgaon
27 Maharashtra	5 Akola

2001 District Codes

State	District
27 Maharashtra	6 Washim
27 Maharashtra	7 Amarawti
27 Maharashtra	8 Wardha
27 Maharashtra	9 Nagpur
27 Maharashtra	10 Bhandara
27 Maharashtra	11 Gondiya
27 Maharashtra	13 Chandrapur
27 Maharashtra	14 Yavatmal
27 Maharashtra	15 Nanded
27 Maharashtra	16 Hingoli
27 Maharashtra	17 Parbhani
27 Maharashtra	18 Jalna
27 Maharashtra	20 Nasik
27 Maharashtra	21 Thane
27 Maharashtra	23 Mumbai
27 Maharashtra	25 Pune
27 Maharashtra	26 Ahmadnagar
27 Maharashtra	27 Bid
27 Maharashtra	29 Osmanabad
27 Maharashtra	30 Solapur
27 Maharashtra	31 Satara
27 Maharashtra	32 Ratnagiri
27 Maharashtra	34 Kolhapur
28 Andhra Pradesh	1 Adilabad
28 Andhra Pradesh	2 Nizamabad
28 Andhra Pradesh	3 Karimnagar
28 Andhra Pradesh	4 Medak
28 Andhra Pradesh	5 Hyderabad
28 Andhra Pradesh	6 Rangareddi
28 Andhra Pradesh	7 Mahbubnagar
28 Andhra Pradesh	10 Khammam
28 Andhra Pradesh	13 Visakhapatnam
28 Andhra Pradesh	14 East Godavari
28 Andhra Pradesh	15 West Godavari
28 Andhra Pradesh	16 Krishna
28 Andhra Pradesh	17 Guntur
28 Andhra Pradesh	18 Prakasam
28 Andhra Pradesh	19 Nellore
28 Andhra Pradesh	20 Cuddapah
28 Andhra Pradesh	21 Kurnool
28 Andhra Pradesh	22 Anantapur
28 Andhra Pradesh	23 Chittoor
29 Karnataka	1 Belgaum
29 Karnataka	2 Bagalkot

2001 District Codes

State	District
29 Karnataka	3 Bijapur
29 Karnataka	5 Bidar
29 Karnataka	6 Raichur
29 Karnataka	7 Koppal
29 Karnataka	8 Gadag
29 Karnataka	9 Dharwad
29 Karnataka	10 Uttar Kannad
29 Karnataka	11 Haveri
29 Karnataka	12 Bellary
29 Karnataka	13 Chitradurga
29 Karnataka	14 Davanagere
29 Karnataka	15 Shimoga
29 Karnataka	16 Udupi
29 Karnataka	17 Chikmagalur
29 Karnataka	18 Tumkur
29 Karnataka	19 Kolar
29 Karnataka	20 Bangalore
29 Karnataka	21 Bangalore Rural
29 Karnataka	22 Mandya
29 Karnataka	24 Dakshin Kannada
29 Karnataka	25 Kodagu
29 Karnataka	26 Mysore
29 Karnataka	27 Chamarajanagar
30 Goa	0 Goa
32 Kerala	2 Kannur
32 Kerala	4 Kozhikode
32 Kerala	5 Malappuram
32 Kerala	6 Palakkad
32 Kerala	7 Thrissur
32 Kerala	8 Ernakulam
32 Kerala	9 Idukki
32 Kerala	10 Kottayam
32 Kerala	11 Alappuzha
32 Kerala	12 Pathanamthitta
32 Kerala	13 Kollam
32 Kerala	14 Thiruvananthapuram
33 Tamil Nadu	1 Thiruvallur
33 Tamil Nadu	2 Chennai
33 Tamil Nadu	3 Kancheepuram
33 Tamil Nadu	4 Vellore
33 Tamil Nadu	5 Dharampuri
33 Tamil Nadu	6 Tiruvannamalai
33 Tamil Nadu	9 Namakkal
33 Tamil Nadu	10 Erode

2001 District Codes

State	District
33 Tamil Nadu	12 Coimbatore
33 Tamil Nadu	13 Dindigul
33 Tamil Nadu	14 Karur
33 Tamil Nadu	15 Tiruchchirappalli
33 Tamil Nadu	16 Perambalur
33 Tamil Nadu	17 Ariyalur
33 Tamil Nadu	23 Sivaganga
33 Tamil Nadu	24 Madurai
33 Tamil Nadu	25 Theni
33 Tamil Nadu	27 Ramanathapuram
33 Tamil Nadu	28 Thoothukkudi
33 Tamil Nadu	29 Tirunelveli
33 Tamil Nadu	30 Kanniyakumari
34 Pondicherry	0 Pondicherry

(N.B. These codes apply to the variable, dist01. The variable, distid, is in most cases the same but has some discrepancies)