The Measurement of Disability Recommendations for the 2010 Round of Censuses

Washington Group on Disability Statistics (WG)

A new set of questions on disability for use on national Censuses has been developed, tested and adopted by the Washington Group on Disability Statistics (WG). The questions reflect advances in the measurement of disability and use the World Health Organization's International Classification of Functioning, Disability, and Health (ICF) as a conceptual framework.

In 2008 the United Nations Statistical Division (UNSD) presented Principles and Recommendations for Population and Housing Censuses (2nd Revision). Among the recommendations outlined in the document are several that pertain specifically to the measurement of disability. (See: Section VI-8: Disability Characteristics pages 178-183, and Tabulations on Disability Characteristics pages 292-294; available online at: <u>http://unstats.un.org/unsd/demographic/sources/census/docs/P&R_Rev2.pdf</u>). The UNSD Principles and Recommendations also provides suggested tabulations for Population Censuses based on the recommendations for disability measurement. Table shells from the Principles and Recommendations pertaining to reporting disability status by age and sex, educational attainment and employment status are appended to this paper.

Recommended Short Set of Questions on Disability for Censuses:

The WG developed a short set of questions for use in censuses and surveys according to the Fundamental Principles of Official Statistics¹ and which is consistent with the ICF. Cognitive and field testing has shown that the 6 questions produce internationally comparable data.

The questions ask about health-related difficulties in six core functional domains: seeing, hearing, walking, cognition, self care, and communication. The recommended text follows: The next questions ask about difficulties you may have doing certain activities because of a HEALTH PROBLEM.

- 1. Do you have difficulty seeing, even if wearing glasses?²
- 2. Do you have difficulty hearing, even if using a hearing aid?²
- 3. Do you have difficulty walking or climbing steps?
- 4. Do you have difficulty remembering or concentrating?
- 5. Do you have difficulty (with self-care such as) washing all over or dressing?
- 6. Using your usual (customary) language, do you have difficulty communicating, (for example understanding or being understood by others)?

¹ See *Statistical Commission, Report on the Special Session (11-15 April 1994)*, Economic and Social Council, Official Records, 1994, Supplement No.9, Series No. E/CN.3/1994/18, United Nations, New York, 1994, para.59.

 $^{^{2}}$ The inclusion of assistive devices was considered for two domains only, seeing and hearing, as limitations in these domains can often be overcome with the use of glasses or hearing aids.

Each question has four response categories: (1) No, no difficulty, (2) Yes, some difficulty, (3) Yes, a lot of difficulty and (4) Cannot do it at all. The severity scale is used in the response categories in order to capture the full spectrum of functioning from mild to severe.

Determination of disability:

The WG has identified the assessment of equalization of opportunity as the purpose for measuring disability that can best be achieved in a Census. Over the course of time, the Census allows for assessment of equalization of opportunity by monitoring and evaluating outcomes of anti-discrimination laws and policies, and service and rehabilitation programmes designed to improve and equalize the participation of persons with disabilities in all aspects of life.

For the purpose of determining disability status using census data, persons with disabilities are defined as those who are at greater risk than the general population of experiencing limitations in performing specific tasks (activities) or restrictions of participation in society. This group would include persons who experience difficulties in one or more of the six core domains, such as walking or hearing, even if the difficulties they experienced were alleviated by the use of assistive devices, living in a supportive environment or having plentiful resources. Some of these individuals may not experience restrictions in participation such as in shopping, doing household chores, working or going to school, because the necessary adaptations have been made at the level of the person (technical aids, assistive devices or personal assistance) or their environment (physical, social or civic accommodations). They would still, however, be considered to be at greater risk than the general population for participation restrictions because of the presence of difficulties in the six core domains and because, in the absence of their accommodations, their levels of participation would be jeopardized.

The six WG questions cover many but not all areas of functioning. Furthermore, the response categories capture a range of severity of the difficulty experienced. Multiple disability scenarios can be described depending on the domain(s) of interest and the choice of severity cut-off. There is more than one way to capture disability through the application of this set of core questions; resulting in not one but several possible population prevalence estimates that will vary in both size and composition.

The WG recommends that the following cutoff be used to define the populations with and without disabilities for the purpose of computing values for the appended tables.

The sub-population *disabled* includes everyone with at least **one** domain that is coded as *a lot* of *difficulty* or *cannot do it at all*.

A Note on the Use of Census Questions to Screen for Disability:

Countries planning specialized surveys on disability may want to use the census to develop a sampling frame for these surveys and include a screening instrument to identify persons who will subsequently be interviewed. The definitions and the instruments used for the purpose of *screening* are very different from those used to assess *equal opportunities* as was outlined above.

While the six questions developed by the Washington Group for measuring the equalization of opportunities identify the majority of those with disability, they do not identify *all* persons who would fit the conceptual definition. The questions will not, for example, identify all persons with intellectual or psychological functioning difficulties.

The main purpose of a screening instrument, on the other hand, is to be as inclusive as possible in order to identify the largest eligible group of people for further study. This broad approach will allow for the fielding of a follow-up survey that would include questions that would identify false positives. The different aspects of disability could then be studies on the identified population. Given the nature of disability, it has proven very difficult to develop screening questions that are appropriate for the constraints of a Census questionnaire. The limited time allotted to questions on disability usually results in screening questions that fail to identify the complete population of interest.

For these reasons, the recommended short set of questions on disability for censuses as described in this document are not intended as disability screening questions unless it is clearly understood that some persons of interest, such as those with learning or psychological disabilities, will not be appropriately included in the identified population. Work is underway to more clearly describe the population that might not be identified using the short set of questions.

The Washington Group on Disability Statistics:

The Washington Group on Disability Statistics (WG) was organized in 2001 following the United Nations International Seminar on Measurement of Disability to address the need for statistical and methodological initiatives at an international level to facilitate the measurement of disability and the comparison of data on disability cross-nationally. To date, the WG has met ten times, in: Washington DC, USA (2002); Ottawa, Canada (2003); Brussels, Belgium (2004); Bangkok, Thailand (2004); Rio de Janeiro, Brazil (2005); Kampala, Uganda (2006); Dublin, Ireland (2007); Manila, Philippines (2008); Dar es Salaam, Tanzania (2009); and most recently in Luxembourg (2010). All National Statistical Offices are eligible for membership in the WG. Currently, 109 National Statistical Offices are represented, as well as 7 international organizations, 6 organizations that represent persons with disabilities (DPOs), the UNSD, and 3 other UN affiliates. The Secretariat for the WG is located at the National Center for Health Statistics (NCHS), USA. The main objective of the WG is the promotion and coordination of international cooperation in the area of health statistics by focusing on disability measures suitable for censuses and national surveys.

Details of the WG organization, history and accomplishments are available online at: (http://www.cdc.gov/nchs/washington_group.htm). In addition the site provides access to lists of participants, proceedings from the meetings (presentations and papers), reports to the UN Statistical Commission and information on upcoming meetings.

Appendix: Tabulations on disability characteristics

Geographical division, sex				
and age				N <i>i i i i</i>
(in years)	Total	With disabilities	Without disabilities	Not stated
Total country	Population inc	cluded: total population		
Both sexes				
	Classification	s:		
All ages	(a) Geog	graphical divisions: (i) total cou	Intry; (ii) each major civil division;	(iii) each principal
Under 1 year	local	,		
1-4		nguish between urban and rura		
5-9			pilities; with disabilities; not stated	
10-14			ars; 5-9 years; 10-14 years; 15-19	
15-19			ears; 40-44 years; 45-49 years; 50	
20-24			0-74 years; 75-79 years; 80-84 ye	ears; 90-94 years; 95-
25-29		ears; 100 years and over; not	stated.	
30-34	(d) Sex:	both sexes; male; female		
35-39				
40-44		his tabulation:		
40-44 45-49	(ce of statistics:		
43-49 50-54	•	Traditional population census		
55-59	•	Register-based population cer	nsus	
55-59 60-64	•	Registers/Surveys systems		
65-69		Rolling surveys Civil registration		
	(h) Do ii	0	combination with datailed descrip	tion
70-74		nition of urban and rural areas	combination with detailed descrip	
75-79	• • •	t question wording		
80-84				
85-89	Core topics:			
90-94	•	Place of usual residence or Pl	ace where present at time of cen	2112
95-99		Sex	ace where present at time of cen	303
100 years and over		Age		
Not stated	•	Disability status		
Male	Note:			
(age groups as above)	There is wides		e of disability by age and sex in the	
Female			ation of prevalence rates distribute arrangements of persons with dis	
(age groups as above)		india residence and the living		abiiitida.
(490 9:0400 40 400 40)				

Population with and without disabilities by age and sex

* Estimates of the population with and without disability are a function of the exact methods and question wording used in the data collection. Consult the metadata for information on the methods (include the specific questions) used.

Population 5 years of age and over, by disability status*, educational attainment, age and sex

O	Educational attainment								
Geographical division, sex and age (in years)	No schooling	Primary schooling	Secondary education, first cycle	Secondary education second cycle	Post- secondary education	Not classified by level and grade of education	Level not stated		
Both sexes	Population i	ncluded: all pe	sons at or above	the usual age for e	ntrance into scho	ol			
Without	•	·		0					
disabilities	Classificatio								
All ages					division; (iii) each	principal locality. Dist	inguish		
0-4			l for (i), (ii) and (i						
5-9				disabilities; disabilit					
						d grade not stated; se			
95-99						ation, second cycle: b			
100+				on; level of education		ars and grade not stat	tea; not		
Not stated						; 30-34 years; 35-39 y	oore: 40		
						'0-74 years; 75-79 yea			
With				ears; and 100 years			13, 00-04		
disabilities		oth sexes; male;		card, and roo years					
(age groups as	(0) 00x.00		Tomaio						
above)	Metadata for	r this tabulation	n:						
		of statistics:							
Disability	· Tra	aditional populat	ion census						
status not	• Re	gister-based po	pulation census						
stated	• Re	gisters/Surveys	systems						
(age groups as	• Ro	lling surveys	-						
above)	Civil registration								
				ination with detailed	description				
Male	1.7	on of urban and	rural areas						
(as for "Both sexes")	(d) Exact qu	uestion wording							
SEACS)	Core topics:								
Female	• Pla	ace of usual resi	dence or Place w	here present at time	e of census				
(as for "Both	• Se:	х							
sexes")	• Ag								
		ability status							
	-	ucational attainr	nent						
	Note:								
	The tabulation provides data for the comparison of the educational attainment of persons with and without disabilities. The percentage of people with disabilities who have no schooling can be compared with that of								
	persons without disabilities. This gives information on the status of integration of persons with disabilities and on the opportunity that persons with disabilities have to participate in the economic, social and cultural development								
	the opportuni of the country		with disabilities h	ave to participate in	the economic, so	ocial and cultural deve	elopment		
		y.	Parah (Planama a Com						

* Estimates of the population with and without disability are a function of the exact methods and question wording used in the data collection. Consult the metadata for information on the methods (include the specific questions) used.

Population ...* years of age and over, by disability status**, current (or usual) activity status, age and sex

		Current (or usual) activity status								
		Economically active					Not econom	ically active	1	_
Geographical division, sex	Total*			Unemploy	ed Never	-				
and age	years of			Worked	worked	Home-		Income		Not
		Employed	Total				Student		Other	stated
and age (in years) Both sexes Without disabilities All ages Under 15*** 15-19 95-99 100 and over Not stated With disabilities (age groups as above) Disability status not stated (age groups as above) Male (as for "Both sexes") Female (as for "Both sexes")	population Classification (a) Geogr princip (b) Disabi (c) Activiti never not sta (d) Age: a years; years; years; on ecc (e) Sex: b Metadata fo (a) Source (e) Sex: b Metadata fo (a) Source (c) Sex: b Metadata fo (a) Source (b) De jure (c) Definit (d) Exact Core topics Plac Sex Age Disa Activity Note: Access to pa persons with basic measu without disal	aphical division bal locality. Dis lity status: with y status: econo worked before ated all ages, 15 year 45-49 years; 5 85-89 years; 5 should include onomic activity oth sexes; ma r this tabulati e of statistics: ditional popula jister-based po- jisters/Surveys I registration e or de facto p ion of urban an question wordi : ce of usual res	n: (i) tota tinguish l nout disal point disal point disal point disal print disal ars and o 50-54 yea and 14 y le; femal ton cens poulation s systems opulation d rural a ing idence o cial to act well as o al and ecc tions by t	before t or above the l country; (ii) between urb bilities; with of active: (i) em phonomically a ver; 15-19 years; 55-59 years; 95-99 years; 95-99 years; 95-99 years; 95-99 years; 95-99 years; 95-99 years; 96-99 years; 96-99 years; 96-99 years; 97-99	before e minimum a each major an and rural disabilities; d ployed; (ii) u ctive: (i) hom ears; 20-24 y ears; 60-64 y ears; and 100 e minimum is u nation with d e present at reliance and out disabilitie ration of the	maker age adapte civil divisio for (i), (ii) a isability sta nemployed nemaker; (ii years; 25-29 ears; 65-69) years ove age-limit ad under 15 ye etailed deso time of cer ensuring th es. Tabulati population	n; (iii) each r nd (iii) ttus not state (distinguish) student; (iii 9 years; 30-3 9 years; 70-7 r; not stated opted by the ars.) cription	recipient rating the eco minor civil div ad ing persons v) income reci 34 years; 35- 4 years; 75- 7. (The catego country for co country for co gof the adult iomic activity ties as compa	ision; (iv) who ever a pient; (iv) 39 years; 8 ry "under ensus que ensus que population status pro ared with t	stated v active each and other; 40-44 30-84 15 estions

* The minimum age adopted by the country for enumerating the economically active population. ** Estimates of the population with and without disability are a function of the exact methods and question wording used in the data collection. Consult the metadata for information on the methods (include the specific questions) used. *** The category "Under 15 years" should include all ages between the minimum age limit adopted by the country for census questions on economic activity and 14 years, if the minimum is below 15 years.