

Table 1. 1990 Demographic and Socioeconomic Development Indicators: China, Gansu and Interior Provinces

Region	Demographic Characteristics			Socio-Economic Characteristics				Economic Growth Indicators			
	Percent Minority (%)	CBR (‰)	CDR (‰)	College Education Rate (%)	Illiteracy Rate (%)	Non-Agricultural Labor Force (% of Total)	National Income (Per Capita Yuan)	Net Income of Peasant Households (Per Capita Yuan)	Total Agricultural Output Value (1990/1986)	Total Industrial Output Value (1990/1986)	Net Income of Peasant Households (1990/1980)
<i>National:</i>	8	21.0	6.3	1.59	20.61	39.77	1,178	630	1.91	2.14	3.29
<i>Gansu:</i>	8	22.9	5.9	1.27	36.73	34.58	859	399	1.83	1.93	2.60
<i>Other West Region:</i>											
Inner Mongolia	19	20.1	5.8	1.67	20.42	44.25	991	607	2.03	2.05	3.35
Guangxi	39	20.7	6.0	0.92	16.62	23.46	726	500	2.12	2.14	2.88
Sichuan	5	17.8	7.1	1.07	19.83	27.52	813	505	1.88	2.04	2.69
Guizhou	35	23.8	7.1	0.89	34.51	21.76	631	435	1.83	2.02	2.70
Yunnan	33	23.6	7.7	0.92	35.02	21.76	774	490	2.20	2.35	3.26
Tibet	96	27.6	9.2	0.66	70.40	19.89	785	437	1.73	1.82	N.A.
Qinghai	42	22.7	6.8	1.69	38.55	39.99	1,044	514	1.74	2.06	N.A.
Ningxia	33	24.6	5.1	1.86	31.36	37.74	978	534	1.74	2.28	3.00
Xinjiang	62	24.7	6.4	2.16	18.92	39.33	1,230	622	2.21	2.25	3.14

Source: Adapted from Hannum and Xie 1998, Table 2.

Note: Figures are from 1990, with the exception of per capita national income (1989). 'CBR' refers to the number of births per thousand population; 'CDR' refers to the number of deaths per thousand population. 'Yuan' refers to nominal Ren Min Bi (Yuan). Growth figures were calculated using ratios of nominal RMB.

Table 2. Summary of Health Measures for Adolescents

Physical health concept	Description & Measure	IFLS ¹	CHNS ²	PHDCN ³	PSID-CDS ⁴
Other/Self Reports of Health Status					
Self-perceived general health	“(Compared to that of other people of your age), how would you rate your health?”	✓	✓	✓	✓
Interviewer-observed health status	According to the interviewer, how does the health of the person compare, in general, to the health status of other people of the same age and sex?	✓			
Child acute morbidity	(1) Whether or not the child had experienced one of several morbidities during the four weeks prior to the survey (e.g., cough, fever, diarrhea, eye infection, rash, toothaches, worms, headaches, measles, stomach ache, etc.)	✓	✓		✓
	(2) "During the past 4 weeks, how many days did you spend in bed due to poor health?"	✓	✓		
Child chronic morbidity	Whether or not the child had experienced chronic diseases such as anemia, eye disease, asthma, paralysis, tuberculosis, edema, etc.				✓
Myopia	Self-report		✓		
Health Assessments					
	(1) Lung capacity	✓			
	(2) Time to rise from sitting to standing	✓			
	(3) Hemoglobin level	✓			
	(4) Pulse	✓	✓		
	(5) Blood pressure	✓	✓		
	(6) Upper arm circumference		✓		
	(7) Tricep skin fold		✓		
Nutritional Status					
	(1) Anthropometric measures (height, weight, age)	✓	✓	✓	✓
	(2) Household dietary data	✓	✓		
	(3) Individual dietary data		✓		
Health Behaviors					
substance use / dependence	self-report			✓	
	mother-report (primary care-giver)			✓	
Sexual history	self-report			✓	
Activity diary	primary care-giver				✓
History of smoking	self-report		✓		
	mother-report				
	teacher-report				
Passive smoking	self-report				
	mother-report				
Risky behaviors in reproduction					
History of eating habits	mother-report				
Health-care seeking behaviors	self-report	✓	✓		

Table 2. Summary of Health Measures for Adolescents

Mental Health Concept	Description	Measure	IFLS¹	CHNS²	PHDCN³	PSID-CDS⁴
Internalizing problems	Depression, seriously emotionally disturbed, anxiety, withdrawal	Children Depression Inventory (CDI) Child Behavior Checklist (CBCL) Youth Self Report (YSR; adapted)			✓ ✓	✓ ✓
Externalizing behavior problems	Delinquency, aggressiveness, truancy	Child Behavior Checklist (CBCL) Youth Self Report (YSR; adapted)			✓ ✓	
Behavior problem index		Survey Diagnostic Instrument				✓
Psychological disorders	MDD, GAD, PTSD, ODD ⁶	Diagnostic Interview Schedule for Children-IV (DISC-IV; adapted)			✓	
Self-perceptions	self-efficacy, self-esteem, self-concept				✓	✓
Attitudes	future orientation toward school / homework				✓ ✓	

¹ IFLS: Indonesia Family Life Survey (1997).

² CHNS: China Health and Nutrition Survey (1993).

³ PHDCN: The Project on Human Development in Chicago Neighborhoods (waves 1 and 2).

⁴ PSID-CDS: the Panel Study of Income Dynamics-Child Development Supplement.

⁵ The hemoglobin test assesses iron deficiency.

⁶ MDD: Major Depressive Disorder; GAD: Generalized Anxiety Disorder; PTSD: Posttraumatic Stress Disorder; ODD: Oppositional Defiant Disorder

Table 3. Summary of Cognitive and Educational Measures for Adolescents

		IFLS ¹	CHNS ²	PHDCN ³	PSID-CDS ⁴
Enrollment and Attainment	self-report/record	✓	✓		✓
Cognitive Test	direct assessment	✓		✓	✓
Math Achievement	direct assessment	✓			
	grades/records	✓			
	self-report	✓			✓
	teacher-report				
Language Achievement	mother-report				✓
	direct assessment	✓		✓	
	grades/records	✓			✓
	self-report	✓			✓
	teacher-report				
Life Skills	mother-report (primary care-giver)			✓	✓
Literacy	self report	✓			✓
Prose Literacy	direct assessment				
Document Literacy	direct assessment				
Numeracy	direct assessment				

¹ IFLS: Indonesia Family Life Survey (1997).

Table 4. Education and Health Measures, GSCF-1, GSCF-2, and GSCF-3

Concept	Description	Mode of Collection	GSCF-1	GSCF-2	GSCF-3
Psycho-Social Health	depression, anxiety, withdrawal	self-report	✓	✓	✓
		mother-report	✓	✓	✓
		teacher-report		✓	✓
	aggression, truancy, delinquency	self-report	✓	✓	✓
		mother-report	✓	✓	✓
		teacher-report		✓	✓
	self-concept, self-esteem risk and resilience	self-report	✓	✓	✓
		self-report		✓	✓
		mother-report		✓	✓
	Satisfaction with life, relationships, and school	teacher-report		✓	✓
teacher-report			✓	✓	
self-report			✓	✓	
Health Behaviors	History of smoking	self-report		✓	✓
		mother-report		✓	✓
		teacher-report		✓	✓
	Passive smoking	self-report		✓	✓
		mother-report		✓	✓
	Reproductive knowledge, attitude practice	self-report		✓	✓
	Hygiene knowledge, attitude, practice	self-report		✓	✓
	History of eating habits	mother-report		✓	✓
	Health-care seeking behaviors	self-report		✓	✓
	Direct Health Assessments	Lung capacity	direct assessment		✓
Blood pressure		direct assessment		✓	✓
Visual acuity		direct assessment		✓	✓
Other/Self Reports of Health Status	Visual acuity	self-report	✓	✓	✓
		teacher-report	✓	✓	✓
		self-report	✓	✓	✓
	Self-perceived general health	self-report	✓	✓	✓
	Interviewer-observed general health	self-report		✓	✓
	Child acute morbidity	self-report		✓	✓
		mother-report	✓	✓	✓
		teacher-report		✓	✓
	Child chronic morbidity	mother-report		✓	✓
		mother-report		✓	✓
teacher-report		✓	✓	✓	
Age at Menarche	direct assessment		✓	✓	
	self-report		✓	✓	
	mother-report	✓	✓	✓	
Menstrual problems	self-report		✓	✓	
	self-report		✓	✓	
Nutrition	Anthropometric measures (height, weight)	self/other report	✓		
		self/other report		✓	✓
Education	Household dietary data	self-report	✓	✓	✓
		self-report		✓	✓
	Enrollment and Attainment	self-report/record	✓	✓	✓
		direct assessment	✓	✓	✓
		direct assessment	✓	✓	✓
	Cognitive Test	grades/records	✓	✓	✓
		self-report	✓	✓	✓
		teacher-report	✓	✓	✓
	Math Achievement	mother-report	✓	✓	✓
		mother-report	✓	✓	✓
direct assessment		✓	✓	✓	
Language Achievement	grades/records	✓	✓	✓	
	grades/records	✓	✓	✓	
	self-report	✓	✓	✓	
Life Skills	teacher-report	✓	✓	✓	
	mother-report	✓	✓	✓	
	mother-report	✓	✓	✓	
Literacy	self-report	✓	✓	✓	
	direct assessment		✓	✓	
	direct assessment		✓	✓	
	direct assessment		✓	✓	
Numeracy	direct assessment		✓	✓	
	direct assessment		✓	✓	

Table 5. Tentative Time Line

Project Year	Date	Activity	Location	Goals	HU	UM	SSB	NWNU	CAS	CAPM	CAAS	MOE
4	Jan, 2005	Project planning	Home Inst.	Discuss Instrumentation	✓	✓	✓	✓	✓	✓	✓	✓
	Feb, 2005	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓
	Mar, 2005	Conduct Focus Group Discussions (FGDs)	Gansu	Participatory Instrument Development	✓			✓	✓	✓		
	Apr, 2005	Analyze FGDs	Home Inst.	↓	✓	✓		✓	✓	✓		
	May, 2005	Instrument Design	Home Inst.	Develop Draft Instrument Components	✓	✓		✓	✓	✓		
	June, 2005	Planning Meeting	Beijing	Compile/Discuss Instrument Components	✓	✓	✓	✓	✓	✓	✓	✓
	July, 2005	Instrument Refinement	Home Inst.	Instrument Development	✓	✓		✓	✓	✓		
	Aug, 2005	Cognitive Pre-testing, Interviewer Debriefing	Gansu	Informal Pretests of Instrument Wording	✓	✓	✓	✓	✓	✓		
	Sep, 2005	Develop Instrument, Manual for Field Test	Home Inst.	Prepare for Simulation of Survey	✓	✓	✓	✓				
	Oct, 2005	Formal Single-County Field Test	Gansu	Test Instruments, Training, Procedures	✓	✓	✓	✓	✓	✓		
	Nov, 2005	Enter Field Test Data	Gansu	↓								
	Dec, 2005	Analyze Test Data & Experiences	Home Inst.	Revise Instruments, Training, Procedures	✓	✓		✓			✓	
5	Jan, 2006	Planning Meeting	Cambridge	↓	✓	✓	✓	✓	✓	✓		
	Feb, 2006	Finalize Instruments	Home Inst.	↓	✓	✓	✓	✓	✓	✓	✓	✓
	Mar, 2006	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓
	Apr, 2006	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓
	May, 2006	Collaborative Visit	Cambridge	Finalizing Documents, Logistics	✓	✓	✓					
	June, 2006	Wave 3 Training, Fieldwork	Gansu	Collecting the Data	✓	✓	✓	✓	✓	✓	✓	
	July, 2006	Wave 3 Data Entry	Gansu	Entering the Data	✓	✓	✓	✓				✓
	Aug, 2006	Wave 3 Data Cleaning	Gansu	Consistency, Valid Range, Logic Checks		✓	✓	✓				
	Sep, 2006	Wave 3 Data Checking	Home Inst.	Section-by-Section Checks	✓	✓						
	Oct, 2006	Wave 3 Analysis & Writing	Home Inst.	Writing Procedural & Research Reports	✓	✓	✓	✓	✓	✓	✓	✓
	Nov, 2006	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓
	Dec, 2006	↓	↓	↓	✓	✓		✓	✓	✓	✓	✓

Note: HU=Harvard University, UM=University of Michigan, SSB=State Statistics Bureau (Gansu), NWNU=Northwest Normal University, CAS=Chinese Academy of Sciences Institute of Psychology, CAPM=Chinese Academy of Preventive Medicine, CAAS=Chinese Academy of Agricultural Sciences Institute of Agricultural Economics, MOE=Ministry of Education National Educational Development Research Institute.