

Codebook for Rice Survey 2016 – CSISA Bangladesh

Variable name	Description	Code	Unit	Comment
Table 1.1 Household identification				
q111_country	Country			
q112_hub	Hub			
Q113_district	District			
q114_upazila	Upazila			
q115_village	Village			
q116_farmername	Farmer's name			
q117_farthername	Farmer's father name			
q118_mobile	Mobile number			10 digit
SeasonYear	Season and year for rice crop cut or rice survey	Aus / Aman / Boro for 2016, 2017, 2018, 2019, 2020,2021		
CropCutInfo	Would you like to enter crop cut information?	Yes , No	Sq. m.	
SamplingAreaSqM	Sampling area (in square meter)			
NumberOfHills_1	Number of hills (no. per sampling area 1)			
GrainWeight_1	Grain weight (kg per sampling area 1) after cleaning / winnowing			
MoisturePercent_1	Moisture % of grain at the time of measuring grain weight from sampling area 1			
NumberOfHills_2	Number of hills (no. per sampling area 2)			
GrainWeight_2	Grain weight (kg per sampling area 2) after cleaning / winnowing			
MoisturePercent_2	Moisture % of grain at the time of measuring grain weight from sampling area 2			
NumberOfHills_3	Number of hills (no. per sampling area 3)			
GrainWeight_3	Grain weight (kg per sampling area 3) after cleaning / winnowing			
MoisturePercent_3	Moisture % of grain at the time of measuring grain weight			

Table1.2 Household information				
q121_tothhmember	Total household members			
q122_meminvag	Household members involved in agriculture			Less than q121
q123_totland	Total land holding		Decimal	The unit should be uniform in all questions related to land area
q124_totcult	Total cultivated land		Decimal	
q125_ricearea	Total aman rice area		Decimal	Less than q124
Table 2 Rice Plot Information [Ask data for the plot in which crop cut was done]				
q201_plotarea	Plot area in which crop cut was taken		Decimal	<= q125
q202_prevcrop	Previous crop grown in the crop cut plot			
q203_soiltype	Soil type of the plot	Light, Medium, Heavy		
q204_landtype	Land type of the plot	High, Medium, Low		
q205_variety	Enter name of variety			
q206_vartype	Select type of variety	1 = Hybrid, 2 = OPV, 3 = Traditional / local, 4 = Unknown		
Variable name	Description	Code	Unit	Comment
q207_cropest	Crop establishment type	1 = Random / conventional transplanted, 2 = DSR broadcasted, 3 = DSR line sowing, 4 = Transplanted in line, 5 = Machine transplanted puddled, 6 = Machine transplanted non-puddled		

q208_rowspace	Row to row spacing (line sowing / transplanting)		cm	
q209_totalseed	Total seed required in the plot		kg	
q2010_seedsource	Seed source	1 = Own stored, 2 = BADC, 3 = Private company, 4 = Local trader, 5 = Neighbor / other farmer, 6 = Other		
q2011_othersource	Other seed source			
q2012_nurserydate	Enter nursery establishment date (if TPR)			
q2013_transowdate	Enter transplanting / sowing date			
q2014_fym	Was FYM / Organic manure applied?	Yes, No		
q2015_fymtype	Type of FYM applied	Dry, Wet		
q2016_fymamount	Total FYM applied (in maund)			
q2017_fymunitconv	1 maund equals how many KG?			
Table 2.1 Fertilizer application in crop cut plot				
q2101_fertuse	Did you apply any chemical fertilizer?	Yes, No		
q2102_fertapplied	Select all the fertilizers applied	Urea, DAP, MoP, SSP, TSP, Zinc, Gypsum, Other, SuperGranule NPK (Guti)		
q2110_otherfertnumber	How many fertilizers did you use apart from previously mentioned ones?			
q2111_otherfertname	Enter name of other fertilizer applied			
2.2 Fertilizer application details in crop cut plot				
q2201_basalurea	Enter amount of urea applied as basal dose		Kg	
q2202_basaldap	Enter amount of DAP applied as basal dose		Kg	
q2203_basalmop	Enter amount of MoP applied as basal dose		Kg	
q2204_basalssp	Enter amount of SSP applied as basal dose		Kg	
q2205_basaltsp	Enter amount of TSP applied as basal dose		Kg	
q2206_basalzinc	Enter amount of Zinc applied as basal dose		Kg	
q2207_basalgyypsum	Enter amount of Gypsum applied as basal dose		Kg	
q22071_basalSuperGranuleNPK	Enter basal dose for Super Granule NPK (Guti) applied		Kg	

q2208_basalfert1	Enter name of other fertilizer (1) applied as basal dose			
q2209_basalfertamount	Enter amount of other fertilizer (2) applied as basal dose		Kg	
q2210_topdress1	Did you apply first top dress in the plot?	Yes, No		
q2211_td1urea	Urea first top dress amount		Kg	
q2212_td1ureadays	Days of application of first top dress Urea after sowing / transplanting		Days	
q2213_td1dap	DAP first top dress amount		Kg	
q2214_td1dapdays	Days of application of first top dress DAP after sowing / transplanting			
q2215_td1mop	MoP first top dress amount		Kg	
q2216_td1mopdays	Days of application of first top dress MoP after sowing / transplanting			
q2217_td1ssp	SSP first top dress amount		Kg	
q2218_td1sspdays	Days of application of first top dress SSP after sowing / transplanting			
Variable name	Description	Code	Unit	Comment
q2219_td1tsp	TSP first top dress amount		Kg	
q2220_td1tspdays	Days of application of first top dress TSP after sowing / transplanting			
q2221_td1zinc	Zinc first top dress amount		Kg	
q2222_td1zincdays	Days of application of first top dress Zinc after sowing / transplanting			
q2223_td1gypsum	Gypsum first top dress amount		Kg	
q2224_td1gypsumdays	Days of application of first top dress Gypsum after sowing / transplanting			
q22241_td1SuperGranuleNPK	First Top Dress Super Granule NPK (Guti) (KG) applied			
q22242_td1SuperGranuleNPK	Days of application of first top dress Super Granule NPK			
q2225_td1fert	Other fertilizer (1) name for first top dress		Kg	
q2226_td1fertdays	Amount of first top dress other fertilizer (1) after sowing / transplanting			
q2228_topdress2	Did you apply second top dress in the plot?	Yes, No		

q2229_td2urea	Urea second top dress amount		Kg	
q2230_td2ureadays	Days of application of second top dress Urea after sowing / transplanting		Days	
q2231_td2dap	DAP second top dress amount		Kg	
q2232_td2dapdays	Days of application of second top dress DAP after sowing / transplanting			
q2233_td2mop	MoP second top dress amount		Kg	
q2234_td2mopdays	Days of application of second top dress MoP after sowing / transplanting			
q2235_td2ssp	SSP second top dress amount		Kg	
q2236_td2sspdays	Days of application of second top dress SSP after sowing / transplanting			
q2237_td2tsp	TSP second top dress amount		Kg	
Variable name	Description	Code	Unit	Comment
q2238_td2sspdays	Days of application of second top dress TSP after sowing / transplanting			
q2239_td2zinc	Zinc second top dress amount		Kg	
q2240_td2zinccdays	Days of application of second top dress Zinc after sowing / transplanting			
q2241_td2gypsum	Gypsum second top dress amount		Kg	
q2242_td2gypsumdays	Days of application of second top dress Gypsum after sowing / transplanting			
q22421_td2SuperGranuleNPK	Second Top dress Super Granule NPK (Guti)		kg	
q22422_td2SuperGranuleNPK	Days of application of second top dress Super Granule NPK			
q2243_td2fert	Enter name of other fertilizer applied		Kg	
q2244_td2fertdays	Other fertilizer second top dress amount			
q2247_topdress3	Did you apply third top dress in the plot?	Yes, No		
q2248_td3urea	Urea third top dress amount		Kg	
q2249_td3ureadays	Days of application of third top dress Urea after sowing / transplanting		Days	

q2250_td3dap	DAP third top dress amount		Kg	
q2251_td3dapdays	Days of application of third top dress DAP after sowing / transplanting			
q2252_td3mop	MoP third top dress amount		Kg	
q2253_td3mopdays	Days of application of third top dress MoP after sowing / transplanting			
q2254_td3ssp	SSP third top dress amount		Kg	
q2255_td3sspdays	Days of application of third top dress SSP after sowing / transplanting			
q2256_td3tsp	TSP third top dress amount		Kg	
q2257_td3sspdays	Days of application of third top dress TSP after sowing / transplanting			
Variable name	Description	Code	Unit	Comment
q2258_td3zinc	Zinc third top dress amount		Kg	
q2259_td3zinccdays	Days of application of third top dress Zinc after sowing / transplanting			
q2260_td3gypsum	Gypsum third top dress amount		Kg	
q2261_td3gypsumdays	Days of application of third top dress Gypsum after sowing / transplanting			
q22611_td3SuperGranuleNPK	Third top dress Super Granule NPK (Guti) applied			
q22612_td3SuperGranuleNPK	Days of application of third top dress Super Granule NPK (Guti)			
q2262_td3fert	Name of other fertilizer applied for third top dress		Kg	
q2263_td3fertdays	Enter amount of other fertilizer applied			

Table 2.3 Fertilizer related information in crop cut plot

q231_fertuseinfo	Source of information on fertilizer use rate	1 = Neighbors, 2 = Extension Agents, 3 = Agrodealers, 4 = Cooperatives, 5 = Others		
q232_otherfertuse	Enter other source of information on fertilizer use rate			
q233_fertintime	Were you able to apply fertilizers when you wanted to?	Yes, No		
q234_notapplyintimereason	Why were you unable to apply fertilizer in the time you	1 = Fertilizer not available, 2 =		

	wanted?	Lack of cash, 3 = Other (specify...)		
Q235_notapplyothereason	Enter other reason for not being able to apply fertilizers when you wanted to			
q236_fertpurchase	Source of fertilizer purchase	Agrodealer, Cooperative, Other		
q237_otherfertpurchase	Enter other source of fertilizer purchase			
Variable name	Description	Code	Unit	Comment
Table 2.4 Irrigation related information				
q241_irrigaccess	Do you have access to irrigation?	Yes, No		
q242_irrigsource	Source of irrigation	River, Canal, Pond, Ground water, Other		
q243_otherirrigsource	Other source of irrigation			
q2432_groundwatermachine	Select irrigation machineries for ground water	Private Shallow tubewell, Private Deep tubewell, Collective Shallow tubewell, Collective Deep tubewell		
q2433_surfacewatermachine	Select irrigation machineries for surface water	LLP , Axial Flow Pump		
q244_irrigtimes	Enter number of times of irrigation [Enter '0' if not applied]			
q245_noirrigreason	If q244 = 0 , why did not you irrigate?	1 = Sufficient rainfall, 2 = Cost of irrigation too high, 3 = Irrigation infrastructure present but water unavailable, 4 = Lack of irrigation facility, 5 = Other		
q246_othernoirrig	Enter other reasons for not irrigating			

Table 2.5 Irrigation related information				
q251_pumpuse	Are you using pump for irrigation?	Yes, No		
q252_pumrented	If yes, is the pump rented?	1 = Self owned, 2 = Rented, 3 = Community, 4 = Others		
q254_pumpcostprovision	How do you pay for the irrigation cost?	1 = Crop share, 2 = Pay for machine and fuel cost, 3 = Seasonal contract, 4 = Other (specify...)		
q253_otherprovision	Enter other for paying irrigation cost	Yes, No		
q2531_cropsharingcost	What share of the crop are you providing to the pump owner?			
q2532_machinefuelcost	How much did you pay for machine and fuel?			
q2533_pumpowner33	How much did you pay to the pump owner / 33 decimal?			
q2534_othercostprovision	Enter other cost provision to pay for rented pump			
q2535_otherpayprovisioncost	How much did you pay for aforementioned provision?			
q256_pumpenergy	Source of energy for pump	1 = Fuel, 2 = Electricity, 3 = No fuel applied		
q257_layflat	Do you use lay flat / polyethene pipe?	Yes, No		
q258_maintainstandwater	Did you always maintain standing water in the plot?	Yes, No		
Table 2.6 Supplemental Irrigation				
q271_suppirrig	Do you apply supplemental irrigation? [Yes / No]			
q272_suppirrigstage	At what stage did you apply supplemental irrigation?	1 = Crop establishment, 2 = Vegetative stage, 3 = Reproductive stage		
q273_nosuppirrigreason	Why would you not apply supplemental irrigation?	1 = Sufficient rainfall, 2 = Water not available, 3 = Irrigation facility not available, 4 = Field is bounded by other farmer's plot, 5 = Too expensive, 6 = Other (specify...)		
q274_othernosupirrig	Other reason for not applying supplemental irrigation			

Variable name	Description	Code	Unit	Comment
Table 2.8 Weed management in crop cut plot				
q281_weedensity	Rate the weed density in the plot	Low, Medium, High		
q282_weedcontrol	Did you control weed in the plot?	Yes, No		
q283_weedcmethod	What method did you use to control weed?	1 = Manual, 2 = Herbicide, 3 = Both manual & herbicide		
Variable name	Description	Code	Unit	Comment
Table 2.9 Detail weed management in crop cut plot				
q291_manualtimes	Enter number of times for manual weeding			
q292_maualdays	Days of manual weeding after seedling / transplanting			
q2921_labornumber	Number of labor required for manual weeding			
q2922_manuallaborwage	Labor wage for manual weeding (Taka/person/day)			
q293_herbicidetimes	How many times did you apply herbicide?			
q294_herbicidename	Enter name of herbicide			
q295_herbicidetype	Type of herbicide	Pre emergence / Post emergence		
q296_herbicidedays	Days of herbicide application after seeding / transplanting			
q297_herbicidose	Enter the dose of herbicide (should include unit as well)			
q298_herbicidelabor	Number of labor required to apply herbicide			
q299_herblaborwage	Labor wage for herbicide application			
Table 2.10 Rice stress and Yield in crop cut plot				
q2101_stress	Did you face any stress in the plot?	Yes , No		
q2102_stresstype	If yes, select type of stress faced	1 = Flood, 2 = Drought, 3 = Insects, 4 = Disease, 5 = Other		
q2103_otherstress	Enter other type of stress			
q2105_harvestdate	Enter date of harvest in crop cut plot			
q2106_grainyieldkg	Enter grain yield in KG from crop cut plot		Kg	
q2107_nextcrop	What would you grow after this season?			
GPS from the center of the crop cut plot (Make sure the accuracy level is less than 10 meters !)				