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Sections: 3, Sub-sections: 3, Questions: 35.
Questions with enabling conditions: 13
Questions with validation conditions:10
Rosters: 2
Variables: 5

Survey Solutions

Welcome to the RCA online survey

SURVEY IDENTIFICATION INFORMATION QUESTIONNAIRE DESCRIPTION

Basic information

Title Welcome to the RCA online survey

CAPACITY AND SUSTAINABILITY

You have been invited to report relevant information to assess the impact that RCA mutation breeding projects have had on social and economic indicators in:

SINGLE-SELECT: COMBO BOX
SCOPE: IDENTIFYING
country

- 01 ○ Australia
- 02 ○ Bangladesh
- 03 ○ China
- 04 ○ Cambodia
- 05 ○ Fiji
- 06 ○ India
- 07 ○ Indonesia
- 08 ○ Japan
- 09 ○ Korea
- 10 ○ Laos
- 11 ○ Malaysia
- 12 ○ Mongolia
- 13 ○ Myanmar
- 14 ○ Nepal
- 15 ○ Pakistan
- 16 ○ Palau

And 4 other symbols [1]

Please write your name

I Please use ALL BLOCK LETTERS

TEXT
SCOPE: IDENTIFYING
respondent

Please write your e-mail address

I Please use ALL BLOCK LETTERS
V1 `self.IsValidEmail()`
M1 Please provide a valid e-mail

TEXT
SCOPE: IDENTIFYING
email

When did %country% start mutation breeding at the national level?

SINGLE-SELECT: COMBO BOX
MB_started

- 1960 ○ 1960
- 1961 ○ 1961
- 1962 ○ 1962
- 1963 ○ 1963
- 1964 ○ 1964
- 1965 ○ 1965
- 1966 ○ 1966
- 1967 ○ 1967
- 1968 ○ 1968
- 1969 ○ 1969
- 1970 ○ 1970
- 1971 ○ 1971
- 1972 ○ 1972
- 1973 ○ 1973
- 1974 ○ 1974
- 1975 ○ 1975

And 45 other symbols [2]

Does %country% have?

MULTI-SELECT: YES/NO — infraestructure

01 ☐ / ☐ A national team in mutation breeding
02 ☐ / ☐ Access to a basic radiation facility
03 ☐ / ☐ Access to a field facility

Approximately, how many individuals from %country% have been trained at the NATIONAL LEVEL in mutation breeding under the RCA projects since 2000?

V1 `self >= 0`
M1 Individuals trained cannot be a negative number. Please check your answer

NUMERIC: INTEGER — people_trained

SPECIAL VALUES
00 None

Approximately, how many of these %people_trained% people trained are women?

E `people_trained>0`
V1 `self <= people_trained`
M1 Ups! the number of women trained is higher than the total number of people trained. Please check [your previous answer](people_trained)

NUMERIC: INTEGER — people_trained_women

SPECIAL VALUES
00 None

Approximately, how many publications in mutation breeding have been developed by %country% since 2000?

I By publications we mean: journal articles, newspaper articles, theses, books (and e-books), websites, conferences and meeting proceedings, onlne blogs, encyclopedia articles, etc.
V1 `self >= 0`
M1 Publications cannot be a negative number. Please check your answer

NUMERIC: INTEGER — publications

SPECIAL VALUES
00 None

Approximately, how many of these %publications% were SCIENTIFIC publications in mutation breeding?

E `publications > 0`
V1 `self <= publications`
M1 Ups! the number of scientific publications is higher than the total number of publications. Please check [your previous answer](publications)

NUMERIC: INTEGER — publications_sci

SPECIAL VALUES
00 None

Has %country% provided services and knowledge related to mutation breeding to other countries?

I Examples of services and knowledge could be: Data, events, funding, infrastructure, jobs, projects, publications, research, skills shares, tools, etc.

SINGLE-SELECT — knowledge_share

01 ○ Yes
02 ○ No

Which services and knowledge products have been shared to other countries?

I Please select ALL THAT APPLY
E `knowledge_share==1`

MULTI-SELECT — knowledge_which

01 ☐ Data
02 ☐ Events
03 ☐ Funding
04 ☐ Infrastructure
05 ☐ Jobs
06 ☐ Projects
07 ☐ Publications
08 ☐ Research
09 ☐ Skill shares
10 ☐ Tools

Approximately, how many companies/institutions have cooperated with %country% for mutation breeding, dissemination of mutant varieties, and contribution to knowledge since 2000	NUMERIC: INTEGER `institutions` SPECIAL VALUES 00 None
Approximately, how many donors have provided funding to research projects in %country% since 2000?	NUMERIC: INTEGER `funders` SPECIAL VALUES 00 None
Please briefly describe the impacts of RCA on the mutation breeding programme in %country%. In particular, what difference does RCA make to the speed, scale, or cost of developing mutant varieties in your country?	TEXT `effect`

RCA COLLABORATION

Please select up to three target crops that are RELEVANT for RCA projects in mutation breeding in %country%.	MULTI-SELECT: ORDERED `target_crops` 01 ☐ Adlai 02 ☐ Banana 03 ☐ Barley 04 ☐ Bean 05 ☐ Blackgram 06 ☐ Chickpea 07 ☐ Groundnut 08 ☐ Lupin 09 ☐ Maize 10 ☐ Mungbean 11 ☐ Oat 12 ☐ Pineapple 13 ☐ Rice 14 ☐ Sesame 15 ☐ Sorghum 16 ☐ Soybean And 3 other symbols [3]
VARIABLE `//index of first selected target_crops[0] == 1 ? "Adlai" : target_crops[0] == 2 ? "Banana": target_crops[0] == 3 ? "Barley" : target_crops[0] == 4 ? "Bean" : target_crops[0] == 5 ? "Blackgram": target` And 488 other symbols [1]	STRING `first_selection`
VARIABLE `//index of first selected target_crops[1] == 1 ? "Adlai" : target_crops[1] == 2 ? "Banana": target_crops[1] == 3 ? "Barley" : target_crops[1] == 4 ? "Bean" : target_crops[1] == 5 ? "Blackgram": target` And 488 other symbols [2]	STRING `second_selection`

VARIABLE

```
//index of first selected target_crops[2] == 1 ? "Adlai"
: target_crops[2] == 2 ? "Banana": target_crops[2] == 3
? "Barley" : target_crops[2] == 4 ? "Bean" : target_crop
s[2] == 5 ? "Blackgram": target
```

And 488 other symbols [3]

STRING third_selection

VARIABLE

```
"("+first_selection +", "+ second_selection +", "+ third
_selection +")"
```

STRING selected_crops

What is the APPROXIMATE combined market value of the selected crops AS A PERCENTAGE of the total market value of all mutant varieties developed under RCA projects in %country%?

I Please report in percentage: 01%, 05%, 10%, 15%, etc.

TEXT mkt_value

STATIC TEXT

Under the RCA projects, how many advanced mutant lines and mutant varieties of each of the following crops have been developed in %country% since 2000?

MUTANT LINES are what also called breeding lines. They don't have name yet but may have qualified for the target trait that it is been bred for. (mostly with breeders to be released later). They have not yet been officially released

MUTANT VARIETIES are those which have name (example Bamati or NERICA rice, ug 99 for wheat blast etc). These have been certified and officially released. Passport data is in the public domain

RCA COLLABORATION

Roster: MUTANT VARIETIES

generated by multi-select question target_crops

mutation_lines

Advanced lines

I How many advanced mutant advanced lines?

NUMERIC: INTEGER mutant_lines

SPECIAL VALUES

00 None

Mutant varieties

I How many mutant varieties?

E `mutant_lines > 0`

V1 `self <= mutant_lines`

M1 The reported mutant variaties are higher than the advanced mutant lines. Are you sure of your answer?

NUMERIC: INTEGER mutant_varieties

SPECIAL VALUES

00 None

STATIC TEXT

QUALITY OF CROPS

STATIC TEXT

Please click on the blue boxes below to answer the questions related to each selected crop.

QUALITY OF CROPS

Roster: CROPS

generated by multi-select question target_crops

crops

E mutant_varieties>0

QUALITY OF CROPS / CROPS

PRODUCTIVITY

Approximately, what is the total accumulated growing area (in ha) of MUTANT %rostertitle% in %country% since 2000?	NUMERIC: INTEGER area
Approximately, what is the yield productivity (in tonnes/ha) of the MUTANT %rostertitle%?	NUMERIC: DECIMAL yield
Approximately, what has been the average yield productivity (in tonnes/ha) of the CONTROL %rostertitle% since 2000?	NUMERIC: INTEGER yield_control
Approximately, what has been the total CHANGE in annual production (in tonnes) of %rostertitle% between 2000 and 2019?	NUMERIC: INTEGER productivity_increase

QUALITY OF CROPS / CROPS

QUALITY TRAITS

Select at least one AGRONOMIC trait improved by the MUTANT variety of %rostertitle%

V1 self.ContainsOnly(99) || !self.Contains(99)

M1 NA can't be combined with other answers

MULTI-SELECT agro_trait

- 01 ☐ Disease resistance
- 02 ☐ Drought tolerance
- 03 ☐ Even pod maturity
- 04 ☐ Herbicide tolerance
- 05 ☐ Iron toxicity tolerance
- 06 ☐ Lodging resistance,
- 07 ☐ Maturity period/Duration
- 08 ☐ Nutrient use efficiency
- 09 ☐ Plant Height
- 10 ☐ Salt tolerance
- 11 ☐ Submergence tolerance
- 12 ☐ Tillering capacity/ability
- 13 ☐ Water use efficient
- 14 ☐ Water-saving capacity
- 15 ☐ Weed competitivenes
- 16 ☐ Yield

And 1 other symbols [4]

Select at least one QUALITY trait improved by the MUTANT variety of %rostertitle%

V1 `self.ContainsOnly(99) || !self.Contains(99)`

M1 NA can't be combined with other answers

MULTI-SELECT `qual_trait`

- 01 ☐ Gluten free
- 02 ☐ Grain size
- 03 ☐ Grain shape
- 04 ☐ Grain color
- 05 ☐ Milling quality
- 06 ☐ Eating quality
- 07 ☐ High mineral content (zinc, iron, provitamin etc)
- 08 ☐ High oil content
- 09 ☐ High seed protein content
- 99 ☐ NA

Did the improvement in quality affect positively the selling price of the primary produce of %rostertitle%?

E `!agro_trait.Contains(99) || !qual_trait.Contains(99)`

SINGLE-SELECT `price_filter`

- 01 ○ Yes
- 02 ○ No

How much, in percentage, did the base price of %rostertitle% increase?

I Please report in percentage: 01%, 05%, 10%, 15%, etc.

E `price_filter ==1`

TEXT `increase_price`

.....

Please provide the CURRENT market price of the primary produce of mutant %rostertitle% per tonne

I Please use local currency

NUMERIC: INTEGER `mkt_price`

- -

VARIABLE

`Math.Round((double)rates[(int)country].xchg * (double)mkt_price)`

DOUBLE `converted_amount`

Roughly, the current market price of the primary produce of MUTANT %rostertitle% that you have provided is: %converted_amount% USD . Is this amount feasible?

E `mkt_price != null`

V1 `self == 1`

M1 If the amount is to low or to high, please verify your answer in the previous question

SINGLE-SELECT `confirm_mktPrice`

- 01 ○ Yes
- 02 ○ No

Apart from price, has any additional benefits been generated from the new/secondary products taken to market due to the improvements in quality of %rostertitle%?

E `!agro_trait.Contains(99) || !qual_trait.Contains(99)`

SINGLE-SELECT `benefits`

- 01 ○ Yes
- 02 ○ No

Please specify which additional benefits have been generated

E `benefits == 1`

TEXT `which_benefits`

.....

QUALITY OF CROPS / CROPS

ENHANCED ENVIRONMENTAL PROTECTION

Do MUTANT varieties of %rostertitle% contribute to any of the following statements without significant reduction in production?

V1 `self.ContainsOnly(99) || !self.Contains(99)`
M1 None cannot be combined with other options

MULTI-SELECT `environment`

01 ☐ Reduction of pesticide use
02 ☐ Reduction of chemical fertilizer
03 ☐ Increase of water efficiency
04 ☐ Increase soil fertility
99 ☐ None

Approximately, compared to the use of pesticide by the control %rostertitle%, by how much has the mutant %rostertitle% contributed to a reduction of the use of pesticide?

I Please report in percentage: 01%, 05%, 10%, 15%, etc.
E `environment.Contains(1)`

TEXT `reduction_pesticide`

.....

Approximately, compared to the use of chemical fertilizer by the control %rostertitle%, by how much has %rostertitle% contributed to a reduction of the use of chemical fertilizer?

I Please report in percentage: 01%, 05%, 10%, 15%, etc.
E `environment.Contains(2)`

TEXT `reduction_fertilizer`

.....

Approximately, compared to the use of water by the control %rostertitle%, by how much has %rostertitle% contributed to an increase of water efficiency?

I Please report in percentage: 01%, 05%, 10%, 15%, etc.
E `environment.Contains(3)`

TEXT `increase_water`

.....

Approximately, compared to the control %rostertitle%, by how much has %rostertitle% contributed to an increase of soil fertility?

I Please report in percentage: 01%, 05%, 10%, 15%, etc.
E `environment.Contains(4)`

TEXT `increase_soil`

.....

APPENDIX A — CATEGORIES

[1] country: You have been invited to report relevant information to assess the impact that RCA mutation breeding projects have had on social and economic indicators in:

Categories: 1:Australia, 2:Bangladesh, 3:China, 4:Cambodia, 5:Fiji, 6:India, 7:Indonesia, 8:Japan, 9:Korea, 10:Laos, 11:Malaysia, 12:Mongolia, 13:Myanmar, 14:Nepal, 15:Pakistan, 16:Palau, 17:Philippines, 18:Sri Lanka, 19:Thailand, 20:Vietnam

[2] MB_started: When did %country% start mutation breeding at the national level?
Categories: 1960:1960, 1961:1961, 1962:1962, 1963:1963, 1964:1964, 1965:1965, 1966:1966, 1967:1967, 1968:1968, 1969:1969, 1970:1970, 1971:1971, 1972:1972, 1973:1973, 1974:1974, 1975:1975, 1976:1976, 1977:1977, 1978:1978, 1979:1979, 1980:1980, 1981:1981, 1982:1982, 1983:1983, 1984:1984, 1985:1985, 1986:1986, 1987:1987, 1988:1988, 1989:1989, 1990:1990, 1991:1991, 1992:1992, 1993:1993, 1994:1994, 1995:1995, 1996:1996, 1997:1997, 1998:1998, 1999:1999, 2000:2000, 2001:2001, 2002:2002, 2003:2003, 2004:2004, 2005:2005, 2006:2006, 2007:2007, 2008:2008, 2009:2009, 2010:2010, 2011:2011, 2012:2012, 2013:2013, 2014:2014, 2015:2015, 2016:2016, 2017:2017, 2018:2018, 2019:2019, 99:This country does not have a national mutation breeding programme at the national level

[3] target_crops: Please select up to three target crops that are RELEVANT for RCA projects in mutation breeding in %country%.
Categories: 1:Adlai, 2:Banana, 3:Barley, 4:Bean, 5:Blackgram, 6:Chickpea, 7:Groundnut, 8:Lupin, 9:Maize, 10:Mungbean, 11:Oat, 12:Pineapple, 13:Rice, 14:Sesame, 15:Sorghum, 16:Soybean, 17:Sugarcane, 18:Tomato, 19:Wheat

[4] agro_trait: Select at least one AGRONOMIC trait improved by the MUTANT variety of %rostertitle%
Categories: 1:Disease resistance, 2:Drought tolerance, 3:Even pod maturity, 4:Herbicide tolerance, 5:Iron toxicity tolerance, 6:Lodging resistance,, 7:Maturity period/Duration, 8:Nutrient use efficiency, 9:Plant Height, 10:Salt tolerance, 11:Submergence tolerance, 12:Tillering capacity/ability, 13:Water use efficient, 14:Water-saving capacity, 15:Weed competitivenes, 16:Yield, 99:NA

APPENDIX B — VARIABLES

[1] first_selection:

//index of first selected target_crops[0] == 1 ? "Adlai": target_crops[0] == 2 ? "Banana": target_crops[0] == 3 ? "Barley" : target_crops[0] == 4 ? "Bean" : target_crops[0] == 5 ? "Blackgram": target_crops[0] == 6 ? "Chickpea" : target_crops[0] == 7 ? "Groundnut" : target_crops[0] == 8 ? "Lupin" : target_crops[0] == 9 ? "Maize" : target_crops[0] == 10 ? "Mungbean" : target_crops[0] == 11 ? "Oat" : target_crops[0] == 12 ? "Pineapple" : target_crops[0] == 13 ? "Rice" : target_crops[0] == 14 ? "Sesame" : target_crops[0] == 15 ? "Sorghum" : target_crops[0] == 15 ? "Soybean": target_crops[0] == 17 ? "Sugarcane": target_crops[0] == 18 ? "Tomato" : target_crops[0] == 19 ? "Wheat": ""

[2] second_selection:

//index of first selected target_crops[1] == 1 ? "Adlai": target_crops[1] == 2 ? "Banana": target_crops[1] == 3 ? "Barley" : target_crops[1] == 4 ? "Bean" : target_crops[1] == 5 ? "Blackgram": target_crops[1] == 6 ? "Chickpea" : target_crops[1] == 7 ? "Groundnut" : target_crops[1] == 8 ? "Lupin" : target_crops[1] == 9 ? "Maize" : target_crops[1] == 10 ? "Mungbean" : target_crops[1] == 11 ? "Oat" : target_crops[1] == 12 ? "Pineapple" : target_crops[1] == 13 ? "Rice" : target_crops[1] == 14 ? "Sesame" : target_crops[1] == 15 ? "Sorghum" : target_crops[1] == 15 ? "Soybean": target_crops[1] == 17 ? "Sugarcane": target_crops[1] == 18 ? "Tomato" : target_crops[1] == 19 ? "Wheat": ""

[3] third_selection:

//index of first selected target_crops[2] == 1 ? "Adlai": target_crops[2] == 2 ? "Banana": target_crops[2] == 3 ? "Barley" : target_crops[2] == 4 ? "Bean" : target_crops[2] == 5 ? "Blackgram": target_crops[2] == 6 ? "Chickpea" : target_crops[2] == 7 ? "Groundnut" : target_crops[2] == 8 ? "Lupin" : target_crops[2] == 9 ? "Maize" : target_crops[2] == 10 ? "Mungbean" : target_crops[2] == 11 ? "Oat" : target_crops[2] == 12 ? "Pineapple" : target_crops[2] == 13 ? "Rice" : target_crops[2] == 14 ? "Sesame" : target_crops[2] == 15 ? "Sorghum" : target_crops[2] == 15 ? "Soybean": target_crops[2] == 17 ? "Sugarcane": target_crops[2] == 18 ? "Tomato" : target_crops[2] == 19 ? "Wheat": ""

LEGEND

Legend and structure of information in this file