



## 2020 Kellogg Grower Survey English Version

What is your company code? Kellogg gave you this code.

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\*indicates mandatory questions

1. \*Name of person/farmer filling out the survey: \_\_\_\_\_
2. \*Are you a: *(select all that apply)*
  - Farm Owner
  - Farm Renter
  - Farm Manager for an individual land owner
  - Corporate Farming Company Employee
3. \*How many farmers are you answering on behalf of? \_\_\_\_\_
4. \*Gender of farmer(s):
  - Male
  - Female
5. \*Do you use any of the following farmer assessment tools? *(Select all that apply)*
  - Cool Farm Tool
  - Field to Market Fieldprint Calculator or Platform (United States only)
  - Global G.A.P.
  - Potato Sustainability Initiative
  - Sustainable Agriculture Initiative (SAI) Farmer Self-Assessment
  - Sustainable Rice Platform
  - Company (Brand) Specific assessment or survey other than the Kellogg Grower Survey
  - None of the above
6. \*Location
  - \*Region (Select from list)
    - Asia
    - Africa
    - Australia
    - Central America
    - Eastern Europe/Russia
    - North America
    - South America
    - Western Europe
  - \*Country \_\_\_\_\_
  - State/Province \_\_\_\_\_
  - Zip code to nearest major town \_\_\_\_\_
  - GPS coordinates (if available) \_\_\_\_\_

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7. \*For which crop were you asked to complete this survey? This will be the reporting crop for the rest of the survey. *(Select only one crop.)*

- Corn/Maize
- Oats
- Potato
- Rice
- Raisins/Sultanas
- Strawberries
- Sugar Beet
- Wheat

8. \*Total farmable land for current year of production: \_\_\_\_\_ hectares/acres *(Select unit of measure)*

9. \*How many hectares/acres did you grow of the reporting crop for this production season?  
\_\_\_\_\_ hectares/acres *(Select unit of measure)*

10. What seed or crop varieties did you use for the reporting crop?

a. Enter Seed Brand: \_\_\_\_\_

b. Enter Seed Product Name: \_\_\_\_\_

11. What is the agricultural performance of the crop variety(ies) you produced for the reporting crop? (Select all that apply)

- Good performance across all metrics
- Could be better - Low yield
- Could be better -Water intense
- Could be better - Pest/Insect vulnerable
- Could be better - Disease vulnerable
- Could be better – Cost of seed

12. For the reporting crop, please provide the planting density per unit of land area. \_\_\_\_\_

*Select the correct unit of measure:*

*For strawberries and raisins/sultanas: plants/acre, plants/ha.*

*For all other crops: kg/ha, lbs/acre, bags/acre, bags/ha.*

13. \*What was the previous crop planted on field before the reporting crop? (Select all that apply)

- Barley
- Corn / Maize
- Oats
- Potato
- Rice
- Soybean
- Strawberries
- Sugar Beet
- Wheat
- Other crop
- None

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14. \*Do you regularly rotate your crops, that is, grow a series of different types of crops in the same field(s) in subsequent seasons?

Yes

No

15. \*Which planting and harvest method do you use? (Select all that apply)

Hand planting and/or harvesting

Mechanized planting and/or harvesting

16. Please specify the month when planting started for the reporting crop this year: (Select from the list of months)

• January

• February

• March

• April

• May

• June

• July

• August

• September

• October

• November

• December

17. Please specify the month harvesting started for the reporting crop this year: (Select from the list of months)

• January

• February

• March

• April

• May

• June

• July

• August

• September

• October

• November

• December

18. Which of the following farming systems do you use on your farm? (Select all that apply)

Organic

Certified Organic

Conventional

Certified Transitional

**Environmental:**

19. \*How much energy do you use to produce one season of the reporting crop? (Enter all that apply)

- Electricity: \_\_\_\_\_ kWh
- Diesel: \_\_\_\_\_ liters
- Propane: \_\_\_\_\_ liters
- Natural Gas: \_\_\_\_\_ liters
- Oil: \_\_\_\_\_ liters
- Gasoline: \_\_\_\_\_ liters
- Biofuels (biodiesel/biogas/bioethanol): \_\_\_\_\_ liters, kg, or kWh
- I do not measure energy use

(Select correct unit of measure)

20. If you used renewable energy for heat and transportation, what energy sources did you use (Select all that apply)

- Biodiesel
- Biogas
- Biomass
- Solar Thermal
- I did not use renewable energy

21. If you used renewable energy for electricity, what energy sources did you use (Select all that apply)

- Solar
- Hydroelectric
- Wind
- Geothermal
- I did not use renewable energy

22. How do you track your energy usage?

- I keep notes either digitally (e.g., a farm management system) or on paper about my energy usage
- I can estimate my energy usage from experience
- I want to learn more about how to better track my energy usage

23. \*What measures have you taken to maximize energy use efficiency? (Select all that apply)

- I have changed to higher efficiency tractors and/or trucks for hauling
- If biotech seeds are approved for use in my region, I use them to decrease tillage and cultivation
- I am using biofuels to meet some of my energy needs
- I am using wind or solar energy to meet my energy needs
- I use precision agriculture tools to improve efficiency and to reduce fuel and fertilizer inputs
- I have implemented operating strategies to improve energy efficiency such as building full modules and operating tractors and other equipment at reduced RPM
- I use seed treatments to reduce the need for post emergent applications of insecticides and fungicides
- I have conducted an energy audit on my farm
- I have not conducted an energy audit on my farm but will conduct one in the future
- I did not take any measures to maximize energy use efficiency

24. \*Do you have adequate resources to maximize your energy use efficiency?
- Yes, I am maximizing my energy use efficiency with the resources I have
  - No, I lack the financial resources to implement energy efficient practices
  - No, I could use more education on how to maximize my energy use efficiency
25. \*Do you irrigate the reporting crop? (If the answer is “yes,” please answer questions 25a-c. If the answer is “no,” please proceed to question 26.)
- Yes
  - No
- a. What is your irrigation method for the reporting crop and what % of crop is irrigated utilizing that method?
- Center Pivot \_\_\_\_\_% of crop
  - Lateral \_\_\_\_\_% of crop
  - Sprinkler \_\_\_\_\_% of crop
  - Drip \_\_\_\_\_% of crop
  - Flood \_\_\_\_\_% of crop
  - Channel irrigation \_\_\_\_\_% of crop
- b. What is your irrigation water use? \_\_\_\_\_liters/ha or \_\_\_\_\_liters/acre or \_\_\_\_\_acre-feet (Select correct units of measure)
- c. Did you use flow meters to track your irrigation water applied?
- I used flow meters on my entire farm
  - I used flow meters on some of fields
  - I did not use flow meters
26. \*How much fertilizer do you apply per hectare or acre for one rotation of the reporting crop? (Select correct units of measure for amount (kg or lbs) and area (ha or acre))
- N (Urea): \_\_\_\_\_kg/lbs per \_\_\_\_\_ha/acres
  - N (Ammonium): \_\_\_\_\_kg/lbs per \_\_\_\_\_ha/acres
  - N (Nitrate): \_\_\_\_\_kg/lbs per \_\_\_\_\_ha/acres
  - P: \_\_\_\_\_kg/lbs per \_\_\_\_\_ha/acres
  - K: \_\_\_\_\_kg/lbs per \_\_\_\_\_ha/acres
  - Organic fertilizer: \_\_\_\_\_kg/lbs per \_\_\_\_\_ha/acres
27. How often did you apply fertilizer for the reporting crop in this production season?  
\_\_\_\_\_ (Please enter 1, 2, 3, 4, or 5 applications)
28. \*What type of pesticides do you use (“Pesticides” include insecticides, herbicides, fungicides, fumigants, etc.)?
- I apply organic pesticides
  - I apply synthetic pesticides
  - I apply organic and synthetic pesticides
  - I do not apply pesticides

(Please answer question 29 only for wheat and oat production. If you are reporting on a different crop, please proceed to question 30.)

29. \*Do you use glyphosate on the reporting crop to: (Select all that apply)
- Help dry crops before harvest
  - Control weeds late in the season
  - Control weeds before crop emergence
  - Control weeds before crop emergence, in conjunction with minimal tillage or other conservation agriculture practices
  - Fallow application after crop harvest
  - I don't use glyphosate on the reporting crop
30. \*Do you take measures to preserve biodiversity on the farm? (Select all that apply)
- We have a biodiversity plan in place
  - We have practices that support biodiversity
  - No, but I'd like to learn more about how to support biodiversity
  - No, I don't take measures to preserve biodiversity on the farm
31. \* What biodiversity measures have you taken? (Select all that apply)
- I plant crop mixtures and multiple crop varieties
  - I include beneficial flowers, perennials, hedgerows or areas of uncultivated land on the land that I manage
  - I provide nesting areas for pollinators and other wildlife
  - I work with local conservation organizations to assist in improving or increasing biodiversity
  - I do not practice any of these measures
  - Other: \_\_\_\_\_
32. \* Do you use Integrated Pest Management (IPM) principles? In other words, do you combine prevention, biological, cultural, physical, and chemical methods to control pests (weeds, insects, pathogens, or vertebrates) in a way that minimizes risk to people and the environment? (If the answer is "yes," please answer question 32a.)
- Yes, and I've received formal training
  - Yes, I've educated myself using books or the internet
  - No, I could use more education or resources on Integrated Pest Management
  - No, Integrated Pest Management does not apply to my operation
- a. \* What integrated pest management practices do you use? (Select all that apply)
- I rotate Modes of Action (MOA) for resistance management
  - I have a scouting program to identify pests and diseases in my crop
  - I consider the potential environmental impacts when selecting my pest control products
  - I use a consultant to help me plan my pest management strategies
  - I consider timing, pesticide application equipment, neighbors and weather when planning my applications
  - I use a crop rotation, cover crop, trap crop, or other controls to reduce pest populations over time
  - I keep detailed pest management records through a Farm Management System
  - Pesticides are applied only when necessary, based on knowledge of pests, weeds and diseases.

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33. \*Does everyone on your farm use Personal Protective Equipment (PPE) when handling or applying chemicals?
- Yes, and everyone involved in chemical applications has been trained according to legal requirements
  - Yes, but there is no formal training
  - No, PPE is not used for chemical applications
  - No, we do not use chemicals that require PPE
34. Based on a visual assessment, is the soil texture for the crop you are reporting on:
- Coarse (sandy)
  - Medium (silt)
  - Fine (clay)
35. Is the drainage in your field poor? For example, for the reporting crop, does the water pool in your field?
- Yes
  - No
36. For the reporting crop, is the soil in your field: (Select all that apply)
- Dry: 'Dry' if, for any part of the growing season, soil is dry, cracked or crop may be stressed in drought conditions
  - Moist: 'Moist' soils are those (including irrigated soils) without any water constraint during the growing season
37. \*Do you conduct soil tests? (If the answer is "yes," please answer questions 37a-c.)
- Yes I do them and they inform my decisions
  - Yes I do them, but I don't use them
  - I have the resources to conduct soil tests, but I don't conduct soil tests
  - I don't have the resources to conduct soil tests
- a. Which of the following do you soil test for?
- Macronutrients (N, P, K)
  - Micronutrients (Ca, Mg, Zn, Cu, Bo, Mn, Fe, S)
  - pH
  - Electrical Conductivity (EC)
  - Cation exchange capacity (CEC)
  - Soil Organic Matter (SOM)
  - None of the above
- b. What is the average % of soil organic matter (SOM) across your farm?
- $SOM \leq 1.72$
  - $1.72 < SOM \leq 5.16$
  - $5.16 < SOM \leq 10.32$
  - $SOM > 10.32$
  - I don't know my average SOM
- c. What is the average pH of your soil across your farm?
- $pH \leq 5.5$
  - $5.5 < pH \leq 7.3$
  - $7.3 < pH \leq 8.5$
  - $pH > 8.5$
  - I don't know my average pH

38. \*Do you practice any of the following methods on the field(s) where you produced the reporting crop this year? (Select all that apply and indicate the number of years each practice has been implemented.)

- No till: \_\_\_\_\_ years
- Minimum till: \_\_\_\_\_ years
- Stubble retention: \_\_\_\_\_ years
- Permanent soil cover: \_\_\_\_\_ years
- Cover crops: \_\_\_\_\_ years
- Buffer or filter strips: \_\_\_\_\_ years

39. Would you like to learn more about soil health management practices that are appropriate for your area?

- Yes
- No, I already have adequate information about to how to manage soil health

40. What nutrient management practices do you use? (Select all that apply)

- Nutrient management plan
- Rate recommendation based on model optimizing fertilizer cost and crop yield
- Rate recommendation from an agriculture research or university extension program
- Source recommendation from an agriculture research or university extension program
- I time fertilizer applications to match nutrient availability and crop needs
- Reduced tillage including conservation tillage and no-till
- Crop rotation or cover crop with nitrogen fixing crops such as soy, alfalfa, legumes, etc.
- Non-nitrogen fixing cover crops
- Nutrient/Soil management based on soil mapping
- High efficiency/sub-surface drip fertigation (injection of fertilizers, soil amendments, water amendments and other water-soluble productions into an irrigation system)
- I work with an agronomist to evaluate and improve nutrient use efficiency
- Overall rate recommendations optimized using weather data
- Use of a nitrification inhibitor
- I do not use any of the nutrient management practices above

41. Do you laser level your field, or level using local techniques?

- Yes
- No

42. \*Whom do you ask for agronomic advice? (Select all that apply)

- Certified crop advisor or agronomist
- Chemical distributor or input provider
- Seed distributor
- Private technician consultant
- Government extension officer
- Influential village leader



- Co-operatives
  - Family or Friends
  - No one
43. Do you use precision agriculture technology? (If the answer is “yes,” please answer question43a.)
- Yes
  - No
- a. What precision agriculture technologies do you use? (Select all that apply.)
- I use a yield monitor to identify field variability
  - I use an auto steer guidance system on farm implements
  - I use a GPS unit to pinpoint field areas requiring special attention
  - I make use of aerial or satellite images to identify areas needing treatment
  - I use a soil map for management decisions
  - I use variable rate planting
  - I use variable rate fertilizer applications
44. Do you use farm management software to manage your farm?
- Yes
  - No
45. Where is your storage for harvested crops? (If the answer is “I immediately sell my harvested crops without storing,” please proceed to question 46.)
- Harvested crops are stored on my farm
  - Harvested crops are stored with processor or co-op
  - Harvested crops are stored with government supported crop storage
  - I immediately sell my harvested crops without storing
- a. At the location where you store your crops, what storage type is used?
- Concrete/Steel Silos
  - Open Bulkheads
  - Warehouse/Cold Storage (Cooler)
  - Portable Storage
  - Aerated Storage

**Social:**

46. \*Have you ever been required to sign a Code of Conduct or guideline on ethical business practices?
- Yes, a [Kellogg Supplier Code of Conduct](#) has been shared with me.
  - Yes, my customer (e.g. miller) has a code of conduct that I signed.
  - No
47. \* How many workers were employed or subcontracted by your operation during your last harvest? Please do not include unpaid family members who work on the farm. (If the answer is “I do not employ workers,” please proceed to question 48. If you do employ workers, please answer questions 47a-.)
- I do not employ workers
  - 1-10
  - 11-25
  - 26-50
  - 51-100
  - over 100

- a. What percent of your workers on farm are: (These numbers should sum to 100%)
- Men \_\_\_\_\_%
  - Women \_\_\_\_\_%
- b. What percent of your workers on farm are: (should add up to 100%)
- Direct hire \_\_\_\_\_%
  - Contracted hire \_\_\_\_\_%
- c. How do you pay your workers?
- Pay workers directly
  - Pay workers indirectly, through a worker representative
  - Pay workers indirectly, through a labor broker or employment agency
- d. Do you and workers on your farm have regular access to health and safety training?
- Yes, through my processor or trader
  - Yes, through government entities
  - Yes, through opportunities with non-governmental organizations (NGOs)
  - No
- e. What percent of your workers on farm are: (These numbers should sum to 100%.)
- Local Permanent Residents \_\_\_\_\_%
  - Non-local, but permanent residents of the same country \_\_\_\_\_%
  - Non-local permanent residents – from out of country \_\_\_\_\_%

**Economic:**

48. \*What is your average yield in metric tons per hectare or acre for the last growing cycle of the reporting crop?
- \_\_\_\_\_ MT/ha or MT/acre (Select correct units of measure.)
49. \*What was your expected yield for the reporting crop?
- \_\_\_\_\_ MT/ha or MT/acre (Select the correct units of measure)
50. Are you satisfied with your yield returns on the reporting crop?
- Yes, every year
  - Yes, depends on the year
  - No
51. What level of disease pressure did you experience with the reporting crop in this production season?
- High
  - Medium
  - Low
52. What level of weed pressure did you experience with the reporting crop in this production season?
- High
  - Medium
  - Low
53. What level of insect pressure did you experience with the reporting crop in this production season?
- High
  - Medium
  - Low

54. If you experienced crop loss, which of the following were the cause? (Select all that apply)

- Pre-harvest crop rot
- Disease pressure
- Weed pressure
- Insect pressure
- Lack of post-harvest storage
- Extreme weather (for example, drought, heat/cold, hail, wind damage, flooding)
- Market problems (for example, unable to sell, contract cancellation, lack of demand)
- I didn't experience crop loss

55. Do you have a documented training system for ensuring food safety and quality of your products?

- Yes, we are trained in food safety by government agencies or processors to Hazard Analysis And Critical Control Point (HACCP) management system requirements
- Yes, we have had some training in food safety and quality
- No, we haven't had training but this has not impacted our access to sell our food
- No, we haven't had training and it limits the places we can sell

56. Do you have a documented training system for you and your employees on agricultural practices?

- Yes, we receive Global G.A.P. (Good Agricultural Practices) Training
- Yes, we receive training through a third party like government extension
- Yes, we receive training through a processor
- No, we haven't had training

57. Do you have enough access to agronomic resources to operate your business and make improvements over time?

- Yes
- No

58. What are the top three things that would help you improve your business? (Select three options.)

- Access to agronomic education
- Access to new seed technologies
- Access to crop protection products
- Access to markets and market pricing
- Access to digital agriculture tools (e.g., farm management system, scouting)
- Access to precision agriculture tools (e.g. variable rate planters)
- Access to information or investment for conservation practices
- Access to financing

**Climate Risk and Adaptation:**

59. \*Do you feel your farming operation is at risk for extreme weather events (for example, drought, heat/cold, hail, wind damage, flooding) (If the answer is "no" or "I don't know," please proceed to question 60.)

- Yes
- No
- I don't know

- a. \*Do you take actions to lessen your risk from extreme weather events?
- Yes
  - No
- b. Which methods are you using to address extreme weather events? *(Select all that apply)*
- Drought prevention (Ex. rainwater harvesting)
  - Soil Protection (Ex. wind break rows, erosion barriers)
  - Freeze / Frost Protection (Ex. wind machines, sprinkling)
  - Crop Insurance
  - Soil enhancement (Ex. drainage, soil structure, organic matter)
  - Alternate wet dry
  - None

**The remaining questions apply only to crops produced in the following countries:** Bangladesh, Brazil, Chile, China, Colombia, Egypt, India, Mexico, Morocco, South Africa, Thailand, Tunisia, and Turkey.

60. Are you and your family able to meet all of your basic needs (food, housing, clothes, education, and savings) from your income only from farming?
- Yes, all the time
  - Yes, depending on the season
  - No
61. Do you have access to financing options to purchase inputs such as seeds and fertilizer?
- Yes
  - No
62. Do you have access to regular market pricing information for the crops you produce?
- Yes, through supplier-supported resources
  - Yes, through Non-Governmental Organization (NGO)-supported resources
  - Yes, I research on my own
  - No, I don't

(If the answer to question 49 was "I do not employ workers," please skip questions 63-67.)

63. Do you keep any of your employees' identification or travel documents? (e.g. passports, visas, identification)
- Yes, we keep these documents in a central location at all times
  - Yes, but employees can access them upon request within 24 hours
  - Yes, but employees can access them anytime without needing permission
  - No, we do not keep any documents for employees
64. Do your employees pay for any of the following expenses, either directly or through paycheck deductions?
- Medical screening as a condition of employment
  - Job training
  - Worker levy fees
  - Personal protective equipment or other safety items
  - No, employees do not pay for any of these work-related expenses.

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65. Do you have a system for your employees to file complaints about issues?
- Yes, we have a formal system and keep records of complaints and resolutions
  - Yes, we have an informal system and employees can come to a manager if they have a complaint
  - No, we do not have a system for employees to make complaints
66. Do you provide your employees housing during their time of employment?
- Yes, I provide employees with housing, with no restrictions on leaving the housing at any time
  - Yes, I provide employees with housing, with some restrictions on leaving the housing (night curfew, approval needed, only weekends, etc.)
  - No
67. Do you and your employees have regular access to: (Select all that apply)
- Drinking water
  - Bathroom facilities
  - Health and medical services
  - Safety training and equipment
  - Formal education for school age children
  - None of the above