

**GYGA DATA FORM FOR A GIVEN CROP ROTATION IN A REFERENCE WEATHER STATION BUFFER ZONE**

**COUNTRY:** Argentina

**WEATHER STATION NAME:** Pehuajo

**LATITUDE/LONGITUDE (decimal degrees):** -35.87°/ -61.83°

**NEAREST LOCATION (district, county, municipality, city):** Pehuajo, Bs. As.

**SOURCES OF THE REPORTED DATA BELOW (e.g. national soil maps, expert opinion, etc):** see Table page 2

| Cropping system <sup>1</sup> | Crop <sup>2</sup> | Water regime <sup>3</sup> | % crop area under this system <sup>4</sup> | Sowing date / rule <sup>5</sup> |                 | Cultivar maturity <sup>6</sup> | Plant density <sup>7</sup> |         | Dominant soil types <sup>8</sup> | Soil type description <sup>9</sup> |            |       | % rotation under each soil <sup>10</sup> |
|------------------------------|-------------------|---------------------------|--|---------------------------------|-----------------|--------------------------------|----------------------------|---------|----------------------------------|------------------------------------|------------|-------|--|
|                              |                   |                           |  | Actual                          | Optimal (mm/dd) |                                | Actual                     | Optimal |                                  | Texture                            | Soil depth | Slope |  |
| Wheat /Soy                   | Wheat             | Rainfed                   | 12.2                                       | 06/05                           | 06/05           | Spring, long type              | 320,000                    | 320,000 | Typic Hapludolls                 | 65-20-15                           | >200       | 0.5   | 50                                       |
|                              |                   |                           |  | 12/15                           | 12/15           |                                | IV short                   | 400,000 | 400,000                          | Entic Hapludolls                   | 78-14-8    | >200  | 1.5                                      |
|                              | Soy               | Rainfed                   |  |                                 |                 |                                |                            |         | Soil 3. NA                       |                                    |            |       |  |
|                              |                   |                           |  |                                 |                 |                                |                            |         |                                  |                                    |            |       |  |

- <sup>1</sup> Dominant 12-month crop rotation within which the target GYGA crops are grown. For example: single crop (rice), double crop (wheat-rice), triple crop (rice-rice-rice). [NOTE: Intercropping systems are not considered].
- <sup>2</sup> Target GYGA crop within specified rotation.
- <sup>3</sup> Water regime of the specific GYGA crop: rainfed, irrigated, partially irrigated.
- <sup>4</sup> Proportion of total harvested area within the buffer zone that is planted with the target GYGA crop under specified cropping system and crop cycle.
- <sup>5</sup> Average or median planting date (transplanting date for flooded rice) for target GYGA crops under the specified crop cycle. Also report recommended optimal sowing date if different from actual. Planting rules can be reported for crops in which sowings depend, for example, on reaching a critical soil water or temperature threshold.
- <sup>6</sup> Cultivar maturity reported as (in order of preference): growing degree days (GDD), or average dates of flowering and physiological maturity (day of year), or average days to physiological maturity (days), or average date of harvest for the dominant cultivar of target GYGA crops under specified crop cycle.
- <sup>7</sup> Average actual plant population (plants per ha) for each target GYGA crop. Also report recommended optimal plant populations if different from actual. When only seeding rate data are available, estimate (target) plant density based on an justifiable germination/establishment efficiency. In case of rice, report hills per ha and seeds/plants per hill.
- <sup>8</sup> Soil types of the specified crop rotation are defined in terms of soil texture, effective rooting depth, and slope. Dominant soil types can be reported using (in order of preference) soil series name (Holdrege silt loam), or soil order (Typic Argiudoll), or generic names ('black soil'). Only report soil types that account for a large portion of the area of the specified crop rotation (no more than three).
- <sup>9</sup> Description requires: dominant soil texture (USDA classification), soil depth (m), and slope (%).
- <sup>10</sup> Proportion of the specified rotation area under each soil type.

**GYGA DATA FORM SOURCE TABLE FOR A GIVEN CROP ROTATION IN A REFERENCE WEATHER STATION BUFFER ZONE**

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Indicate in this table as much as possible the sources of the data

| Cropping system <sup>1</sup>   | Crop <sup>2</sup> | Water regime <sup>3</sup> | % crop area under this system <sup>4</sup> | Sowing date / rule <sup>5</sup> |                              | Cultivar maturity <sup>6</sup> | Plant density <sup>7</sup>   |                              | Dominant soil types <sup>8</sup>       | Soil type description <sup>9</sup> | % rotation under each soil |
|--------------------------------|-------------------|---------------------------|--|---------------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|--|------------------------------------|----------------------------|
|                                |                   |                           |  | Actual                          | Optimal                      |                                | Actual                       | Optimal                      |  |                                    |                            |
| Ministry of Agriculture (Arg.) | Wheat             | Rainfed                   | Ministry of Agriculture (Arg.)             | Juan Martín Capelle (AACREA)    | Juan Martín Capelle (AACREA) | Juan Martín Capelle (AACREA)   | Juan Martín Capelle (AACREA) | Juan Martín Capelle (AACREA) | Soil 1. Ministry of Agriculture (Arg.) |                                    |                            |
|                                |                   |                           |  |                                 |                              |                                |                              |                              | Soil 2. Ministry of Agriculture (Arg.) |                                    |                            |
|                                | Soy               | Rainfed                   |  | Juan Martín Capelle (AACREA)    | Juan Martín Capelle (AACREA) | Juan Martín Capelle (AACREA)   | Juan Martín Capelle (AACREA) | Juan Martín Capelle (AACREA) | Soil 3. NA                             |                                    |                            |
|                                |                   |                           |  |                                 |                              |                                |                              |                              |  |                                    |                            |