

# ERQI 2.0

## Updating the ERQI to a simple and transparent calculation.

After seven seasons of using data to help manage risk, the ERQI calculation has been updated. ERQI 2.0 comes with all of the same benefits in a transparent and easy-to-calculate format.

● **The journey so far**

✕ **The concept behind ERQI 2.0**

○ **The calculation tables**

# ● The journey so far

After seven seasons of using data to help manage risk, the ERQI calculation has been updated. ERQI 2.0 comes with all of the same benefits in a transparent and easy-to-calculate format.



The biggest challenge of a rating is how easy we can make it to understand. At the request of the FEI, we worked for two years on an international ERQI, known as HFI (Horse Form Index) which was based on the principles of being simple to calculate and easy to understand. We are now bringing those learnings to our national federation clients.



# ● The concepts behind ERQI 2.0

The key difference is transparency. The ERQI is a very accurate rating and this update contains no major conceptual improvements. In that sense, our message has remained the same. Poor past performance is an indicator of future poor performance.



×

## Am I ready?

The ERQI 2.0 can be used by riders and owners to make the best decision for themselves and their horses *prior* to competing.

# Quality not just quantity.

Raising the bar on cross country performance quality.

## Supporting officials

The ERQI 2.0 is a useful tool to help officials make evidence-based decisions on and off the field.

**Learning is part of progress.**

The odd mistake will not result in poor ERQI 2.0 values.

**Past performance strongly correlates to future performance.**



# What the ERQI tells us

Across the world, there is a clear correlation between the ERQI categories and the clear rates. These rates below are based on 2016-2022 results and can be skewed slightly by the fact that in Ireland, we have a much more positive picture - low rated ERQIs do not compete at levels beyond their current form.

## EI120 / CCI4\*

| ERQI 2.0 | XCJ Clear Rate |
|----------|----------------|
| A++      | -              |
| A+       | 88%            |
| A        | 80%            |
| B        | 78%            |
| C        | 67%            |
| D        | 62%            |
| E        | 54%            |

## EI115 / CCI3\*

| ERQI 2.0 | XCJ Clear Rate |
|----------|----------------|
| A++      | -              |
| A+       | 97%            |
| A        | 90%            |
| B        | 84%            |
| C        | 78%            |
| D        | 76%            |
| E        | 63%            |

## EI110 / CCI2\*

| ERQI 2.0 | XCJ Clear Rate |
|----------|----------------|
| A++      | 90%            |
| A+       | 90%            |
| A        | 88%            |
| B        | 82%            |
| C        | 77%            |
| D        | 70%            |
| E        | 68%            |

## EI105 / CCI1\*

| ERQI 2.0 | XCJ Clear Rate |
|----------|----------------|
| A++      | -              |
| A+       | 94%            |
| A        | 92%            |
| B        | 84%            |
| C        | 82%            |
| D        | 84%            |
| E        | 75%            |

## EI100

| ERQI 2.0 | XCJ Clear Rate |
|----------|----------------|
| A++      | 95%            |
| A+       | 90%            |
| A        | 86%            |
| B        | 84%            |
| C        | 79%            |
| D        | 71%            |
| E        | 70%            |

## EI90

| ERQI 2.0 | XCJ Clear Rate |
|----------|----------------|
| A++      | 97%            |
| A+       | 87%            |
| A        | 84%            |
| B        | 79%            |
| C        | 73%            |
| D        | 70%            |
| E        | 64%            |



## ERQI 2.0 Categories

|            |     |
|------------|-----|
| 5 or above | A++ |
| 4 - 4.9    | A+  |
| 3 - 3.9    | A   |
| 2 - 2.9    | B   |
| 1 - 1.9    | C   |
| 0 - 0.9    | D   |
| Below 0    | E   |

- **The calculation tables**

# ERQI 2.0



# How can I calculate my ERQI 2.0 in 2023?

**The new, transparent system.**

## → 01

Select the level of competition **at which you want to enter** your horse - for example, EI115.

## → 02

Use the 'EI115 / CCI3\*' table on the following pages to assign an ERQI value to each of your horse's last 6 runs.

Average the assigned ERQI values from your last 6 runs. This gives your horse an ERQI score and associated category (see right).

## → 03

Horses will have a different ERQI depending on the level you wish to enter.

## → 04

Use the information to help guide your decision-making around suitability and readiness to compete at the level. The Performance Guide on page 14 can help.



### ERQI 2.0 Categories

|            |     |
|------------|-----|
| 5 or above | A++ |
| 4 - 4.9    | A+  |
| 3 - 3.9    | A   |
| 2 - 2.9    | B   |
| 1 - 1.9    | C   |
| 0 - 0.9    | D   |
| Below 0    | E   |



# ERQI 2.0 Calculation Tables

Use the table for the level you wish to enter, get the assigned value for each of your last 6 XC results, take the average of the assigned values.

| Calculation Values to Enter a CCI5* Class       |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*) | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 4.5   | 1.0    | -1.0     | -3.0  | -4.5       |
| EI120, CCI4*                                    | 3.0   | -2.0   | -3.5     | -4.5  | -5.0       |
| EI115, CCI3*                                    | 1.5   | -3.0   | -4.5     | -5.0  | -6.0       |
| EI110, CCI2*                                    | 0.0   | -3.5   | -5.0     | -5.5  | -6.0       |
| EI105, CCI1*                                    | 0.0   | -3.5   | -5.0     | -5.5  | -6.0       |
| EI100   | 0.0   | -4.0   | -5.0     | -5.5  | -6.0       |
| EI90  | 0.0   | -4.0   | -5.0     | -5.5  | -6.0       |
| EI80  | 0.0   | -4.0   | -5.0     | -5.5  | -6.0       |

| Calculation Values to Enter an EI120 / CCI4* Class |   |        |          |       |            |
|--|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*)    | Assigned value based on XC result at that level |        |          |       |            |
|  | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*  | 6.0   | 1.5    | 0.0      | -2.0  | -4.0       |
| EI120, CCI4*                                       | 3.5   | -1.5   | -3.0     | -4.0  | -5.0       |
| EI115, CCI3*                                       | 2.5   | -2.5   | -4.0     | -4.5  | -5.0       |
| EI110, CCI2*                                       | 1.5   | -3.0   | -4.5     | -5.0  | -6.0       |
| EI105, CCI1*                                       | 1.0   | -3.5   | -5.0     | -5.5  | -6.0       |
| EI100  | 0.5   | -4.0   | -5.0     | -5.5  | -6.0       |
| EI90   | 0.0   | -4.0   | -5.0     | -5.5  | -6.0       |
| EI80   | 0.0   | -4.0   | -5.0     | -5.5  | -6.0       |

## DEFINITIONS

### Clear:

You finished XC with 0 jumping penalties.\*\*

### Single Fault:

You finished XC with one penalized jumping error (e.g. one flag, one frangible device activation, one refusal).

### Multiple:

- You finished XC with more than one jumping error on course (more than 20 jumping penalties), or
- You had *more than 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified

### Elim:

- You were eliminated during the XC phase for something other than a horse fall (horse fall has its own category).
- If you experienced a rider fall on course and were not eliminated (were allowed to continue), do still count that as an 'Elim' result for ERQI purposes.
- However, if you were eliminated for 'other technical' and *had 0 jumping penalties* up to the point of that EL, do *not* count that run as one of your previous 6 results.

### Horse fall:

You had a horse fall or trapped horse on the XC course.

\*\* National federations may assign a 10 point XC penalty. ERQI does not count these as a jumping fault. In all cases, consider it 0 for ERQI purposes.

## \* WHICH RUNS TO COUNT

The number of counting runs, after all non-counting results are omitted, should total 6. If your horse has not yet had 6 counting runs, use as many counting runs as the horse has, down to a minimum of 3.

### Non-counting results:

Do *not* count any result where you:

- Didn't start the XC phase
- Had 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified
- Were eliminated for 'other technical' *with 0 jumping penalties* up to the point of elimination.



# ERQI 2.0 Calculation Tables

Use the table for the level you wish to enter, get the assigned value for each of your last 6 XC results, take the average of the assigned values.

| Calculation Values to Enter a EI115 / CCI3* Class |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*)   | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 6.5   | 2.5    | 0.0      | -1.0  | -2.0       |
| EI120, CCI4*                                      | 4.5   | 1.0    | -1.5     | -2.5  | -4.0       |
| EI115, CCI3*                                      | 3.0   | -1.5   | -2.5     | -3.5  | -5.0       |
| EI110, CCI2*                                      | 2.5   | -2.5   | -4.0     | -4.5  | -5.0       |
| EI105, CCI1*                                      | 2.0   | -3.0   | -4.5     | -5.0  | -5.5       |
| EI100   | 1.5   | -3.5   | -5.0     | -5.5  | -6.0       |
| EI90  | 0.5   | -4.0   | -5.0     | -5.5  | -6.0       |
| EI80  | 0.0   | -4.0   | -5.0     | -5.5  | -6.0       |

| Calculation Values to Enter a EI110 / CCI2* Class |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*)   | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 7.0   | 3.0    | 0.0      | 0.0   | 0.0        |
| EI120, CCI4*                                      | 6.0   | 1.0    | -1.0     | -1.5  | -2.5       |
| EI115, CCI3*                                      | 5.0   | 0.5    | -1.5     | -3.0  | -4.5       |
| EI110, CCI2*                                      | 3.5   | -1.0   | -2.5     | -3.5  | -5.0       |
| EI105, CCI1*                                      | 3.0   | -2.0   | -3.5     | -4.5  | -5.0       |
| EI100   | 2.0   | -2.5   | -4.0     | -5.0  | -5.5       |
| EI90  | 1.0   | -3.0   | -4.5     | -5.5  | -6.0       |
| EI80  | 0.5   | -3.5   | -5.0     | -5.5  | -6.0       |

## DEFINITIONS

### Clear:

You finished XC with 0 jumping penalties.\*\*

### Single Fault:

You finished XC with one penalized jumping error (e.g. one flag, one frangible device activation, one refusal).

### Multiple:

- You finished XC with more than one jumping error on course (more than 20 jumping penalties), or
- You had *more than 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified

### Elim:

- You were eliminated during the XC phase for something other than a horse fall (horse fall has its own category).
- If you experienced a rider fall on course and were not eliminated (were allowed to continue), do still count that as an 'Elim' result for ERQI purposes.
- However, if you were eliminated for 'other technical' and *had 0 jumping penalties* up to the point of that EL, do *not* count that run as one of your previous 6 results.

### Horse fall:

You had a horse fall or trapped horse on the XC course.

\*\* National federations may assign a 10 point XC penalty. ERQI does not count these as a jumping fault. In all cases, consider it 0 for ERQI purposes.

## \* WHICH RUNS TO COUNT

The number of counting runs, after all non-counting results are omitted, should total 6. If your horse has not yet had 6 counting runs, use as many counting runs as the horse has, down to a minimum of 3.

### Non-counting results:

Do *not* count any result where you:

- Didn't start the XC phase
- Had 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified
- Were eliminated for 'other technical' *with 0 jumping penalties* up to the point of elimination.

Continued



# ERQI 2.0 Calculation Tables

Use the table for the level you wish to enter, get the assigned value for each of your last 6 XC results, take the average of the assigned values.

| Calculation Values to Enter a EI105 / CCI1* Class |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*)   | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 7.5   | 3.0    | 0.0      | 0.0   | 0.0        |
| EI120, CCI4*                                      | 6.5   | 1.5    | 0.0      | -1.0  | -2.0       |
| EI115, CCI3*                                      | 5.5   | 1.0    | -1.0     | -2.0  | -2.5       |
| EI110, CCI2*                                      | 4.5   | -0.5   | -2.0     | -3.0  | -4.5       |
| EI105, CCI1*                                      | 3.5   | -1.0   | -2.5     | -4.0  | -5.0       |
| EI100   | 3.0   | -1.5   | -3.0     | -4.5  | -5.5       |
| EI90  | 2.0   | -2.5   | -4.0     | -5.0  | -6.0       |
| EI80  | 0.5   | -3.0   | -4.5     | -5.5  | -6.0       |

| Calculation Values to Enter a EI100 Class       |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*) | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 7.5   | 3.0    | 0.0      | 0.0   | 0.0        |
| EI120, CCI4*                                    | 6.5   | 2.0    | 0.0      | 0.0   | 0.0        |
| EI115, CCI3*                                    | 5.5   | 1.5    | 0.0      | -1.0  | -2.0       |
| EI110, CCI2*                                    | 5.0   | 0.5    | -1.0     | -2.0  | -4.0       |
| EI105, CCI1*                                    | 4.5   | -0.5   | -2.0     | -3.0  | -5.0       |
| EI100   | 4.0   | -1.0   | -2.5     | -4.0  | -5.0       |
| EI90  | 3.0   | -1.5   | -3.5     | -5.0  | -6.0       |
| EI80  | 1.5   | -2.5   | -4.0     | -5.5  | -6.0       |

## DEFINITIONS

### Clear:

You finished XC with 0 jumping penalties.\*\*

### Single Fault:

You finished XC with one penalized jumping error (e.g. one flag, one frangible device activation, one refusal).

### Multiple:

- You finished XC with more than one jumping error on course (more than 20 jumping penalties), or
- You had *more than 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified

### Elim:

- You were eliminated during the XC phase for something other than a horse fall (horse fall has its own category).
- If you experienced a rider fall on course and were not eliminated (were allowed to continue), do still count that as an 'Elim' result for ERQI purposes.
- However, if you were eliminated for 'other technical' and *had 0 jumping penalties* up to the point of that EL, do *not* count that run as one of your previous 6 results.

### Horse fall:

You had a horse fall or trapped horse on the XC course.

\*\* National federations may assign a 10 point XC penalty. ERQI does not count these as a jumping fault. In all cases, consider it 0 for ERQI purposes.

## \* WHICH RUNS TO COUNT

The number of counting runs, after all non-counting results are omitted, should total 6. If your horse has not yet had 6 counting runs, use as many counting runs as the horse has, down to a minimum of 3.

### Non-counting results:

Do *not* count any result where you:

- Didn't start the XC phase
- Had 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified
- Were eliminated for 'other technical' *with 0 jumping penalties* up to the point of elimination.

Continued



# ERQI 2.0 Calculation Tables

Use the table for the level you wish to enter, get the assigned value for each of your last 6 XC results, take the average of the assigned values.

| Calculation Values to Enter a EI90 Class        |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*) | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 7.5   | 3.0    | 0.0      | 0.0   | 0.0        |
| EI120, CCI4*                                    | 7.5   | 2.0    | 0.0      | 0.0   | 0.0        |
| EI115, CCI3*                                    | 6.5   | 1.5    | 0.0      | 0.0   | 0.0        |
| EI110, CCI2*                                    | 5.5   | 1.0    | 0.0      | -1.0  | -2.0       |
| EI105, CCI1*                                    | 5.0   | 0.5    | -1.0     | -2.0  | -4.0       |
| EI100   | 4.5   | 0.0    | -1.5     | -3.0  | -4.5       |
| EI90  | 4.0   | -1.0   | -2.0     | -3.5  | -5.0       |
| EI80  | 3.0   | -1.5   | -2.5     | -4.0  | -5.0       |

| Calculation Values to Enter a EI80 Class        |   |        |          |       |            |
|---|---|--------|----------|-------|------------|
| Previous level<br>(for each of<br>last 6 runs*) | Assigned value based on XC result at that level |        |          |       |            |
|   | Clear   | Single | Multiple | Elim. | Horse Fall |
| CCI5*   | 7.5   | 3.0    | 0.0      | 0.0   | 0.0        |
| EI120, CCI4*                                    | 7.5   | 2.0    | 0.0      | 0.0   | 0.0        |
| EI115, CCI3*                                    | 7.0   | 1.5    | 0.0      | 0.0   | 0.0        |
| EI110, CCI2*                                    | 6.0   | 1.0    | 0.0      | 0.0   | 0.0        |
| EI105, CCI1*                                    | 5.5   | 0.5    | 0.0      | -1.0  | -2.0       |
| EI100   | 5.0   | 0.5    | -0.5     | -2.0  | -4.0       |
| EI90  | 4.5   | 0.0    | -1.0     | -2.0  | -4.0       |
| EI80  | 4.0   | -1.0   | -1.5     | -2.0  | -4.0       |

## DEFINITIONS

### Clear:

You finished XC with 0 jumping penalties.\*\*

### Single Fault:

You finished XC with one penalized jumping error (e.g. one flag, one frangible device activation, one refusal).

### Multiple:

- You finished XC with more than one jumping error on course (more than 20 jumping penalties), or
- You had *more than 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified

### Elim:

- You were eliminated during the XC phase for something other than a horse fall (horse fall has its own category).
- If you experienced a rider fall on course and were not eliminated (were allowed to continue), do still count that as an 'Elim' result for ERQI purposes.
- However, if you were eliminated for 'other technical' and *had 0 jumping penalties* up to the point of that EL, do *not* count that run as one of your previous 6 results.

### Horse fall:

You had a horse fall or trapped horse on the XC course.

\*\* National federations may assign a 10 point XC penalty. ERQI does not count these as a jumping fault. In all cases, consider it 0 for ERQI purposes.

## \* WHICH RUNS TO COUNT

The number of counting runs, after all non-counting results are omitted, should total 6. If your horse has not yet had 6 counting runs, use as many counting runs as the horse has, down to a minimum of 3.

### Non-counting results:

Do *not* count any result where you:

- Didn't start the XC phase
- Had 0 XC jumping penalties* before you: \*\*
  - Retired
  - Fell on the flat
  - Had a missed jump
  - Were disqualified
- Were eliminated for 'other technical' *with 0 jumping penalties* up to the point of elimination.

Continued



# ERQI 2.0 Performance Guide

Using observed clear rates at EI110 / CCI2\* (2016 -2022) to demonstrate

| EI ERQI Category | ERQI 2.0 Value | Observed X CJ Clear Rate |
|------------------|----------------|--------------------------|
| A++              | 5 or above     | 90%                      |
| A+               | 4 - 4.9        | 90%                      |
| A                | 3 - 3.9        | 88%                      |
| B                | 2 - 2.9        | 82%                      |
| C                | 1 - 1.9        | 77%                      |
| D                | 0 - 0.9        | 70%                      |
| E                | Below 0        | 68%                      |
| Pending          | N/A            | 78%                      |