

# Previsão de Afluência – Reservatório de Fiu

# 05/03/2021

**Chuva Observada**

Tabela 1: Dados de chuva observada na bacia

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Dia** | **Estação** | | | **Chuva Integrada** |
| **Apucaraninha Montante** | **Barragem PCH Apucaraninha** | **Reservatório Fiu** |
| **Precipitação (mm)** | | | |
| **2021-02-26** | **0,00** | **0,00** | **0,00** | **0,00** |
| **2021-02-27** | **0,00** | **0,00** | **0,00** | **0,00** |
| **2021-02-28** | **3,80** | **5,80** | **4,00** | **4,20** |
| **2021-03-01** | **1,20** | **2,80** | **2,00** | **1,68** |
| **2021-03-02** | **59,60** | **31,20** | **25,20** | **45,79** |
| **2021-03-03** | **5,80** | **3.80** | **4,60** | **5,16** |
| **2021-03-04** | **9,40** | **1,00** | **1,60** | **5,92** |

**Previsão Hidrometeorológica**

**Modelo Sacramento**



Figura 1: Gráfico de previsão de afluência para o reservatório – Modelo Sacramento

**Modelo GR5i**



Figura 2: Gráfico de previsão de afluência para o reservatório – Modelo GR5i

**Detalhamento Previsões**

Tabela 2: Valores de vazão afluente média prevista – Modelo Sacramento

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Hora** | **Simulação c/ Chuva ECMWF** | | | | | **Simulação c/ Chuva WRF** |
| **Mínimo** | **Quantil 25** | **Mediana** | **Quantil 75** | **Máximo** |
| **Vazão Média Prevista (m³/s)** | | | | | |
| **2021-03-05T06** | **5,27** | **5,37** | **5,48** | **5,66** | **6,02** | **5,17** |
| **2021-03-05T12** | **5,36** | **6,20** | **6,94** | **8,36** | **11,09** | **5,16** |
| **2021-03-05T18** | **7,06** | **9,70** | **10,52** | **13,56** | **22,80** | **9,24** |
| **2021-03-06T00** | **9,20** | **13,13** | **14,79** | **18,25** | **34,09** | **14,89** |
| **2021-03-06T06** | **10,44** | **14,67** | **17,30** | **20,74** | **38,58** | **17,57** |
| **2021-03-06T12** | **9,96** | **14,22** | **17,38** | **19,02** | **35,63** | **16,60** |
| **2021-03-06T18** | **8,45** | **12,21** | **14,37** | **16,12** | **28,96** | **14,00** |
| **2021-03-07T00** | **6,96** | **9,91** | **11,57** | **13,04** | **22,33** | **11,83** |
| **2021-03-07T06** | **5,80** | **7,99** | **9,25** | **11,00** | **16,52** | **10,88** |
| **2021-03-07T12** | **4,70** | **6,45** | **7,68** | **9,71** | **12,18** | **9,99** |
| **2021-03-07T18** | **3,93** | **5,41** | **6,32** | **7,94** | **10,97** | **8,77** |
| **2021-03-08T00** | **3,56** | **4,82** | **6,08** | **7,24** | **9,56** | **8,46** |
| **2021-03-08T06** | **3,29** | **4,53** | **5,75** | **7,02** | **12,13** | **8,55** |
| **2021-03-08T12** | **3,06** | **4,14** | **5,05** | **6,44** | **13,26** | **7,74** |
| **2021-03-08T18** | **2,77** | **3,78** | **4,58** | **5,75** | **12,07** | **6,61** |
| **2021-03-09T00** | **2,65** | **3,63** | **4,24** | **5,19** | **10,09** | **5,83** |
| **2021-03-09T06** | **2,52** | **3,43** | **4,08** | **4,79** | **8,23** | **5,28** |
| **2021-03-09T12** | **2,42** | **3,28** | **3,76** | **4,70** | **6,73** | **4,75** |
| **2021-03-09T18** | **2,35** | **3,13** | **3,54** | **4,09** | **5,62** | **4,28** |
| **2021-03-10T00** | **2,29** | **3,05** | **3,47** | **3,99** | **5,22** | **4,19** |
| **2021-03-10T06** | **2,25** | **3,04** | **3,43** | **4,08** | **5,28** | **4,24** |
| **2021-03-10T12** | **2,22** | **2,99** | **3,37** | **4,08** | **5,69** | **4,11** |
| **2021-03-10T18** | **2,20** | **2,89** | **3,33** | **3,98** | **5,50** | **3,83** |
| **2021-03-11T00** | **2,19** | **2,92** | **3,40** | **4,04** | **6,04** | **3,64** |
| **2021-03-11T06** | **2,18** | **2,91** | **3,54** | **4,22** | **7,79** | **3,50** |
| **2021-03-11T12** | **2,17** | **2,90** | **3,51** | **4,05** | **8,49** | **3,35** |
| **2021-03-11T18** | **2,16** | **2,86** | **3,35** | **3,93** | **8,20** | **3,23** |
| **2021-03-12T00** | **2,15** | **2,84** | **3,40** | **3,94** | **7,81** | **3,31** |

**Observações:**

- Horários registrados pelo Tempo Coordenado Universal (UTC) / Hora Mundial.

- Dados indexados no limite de tempo superior. Ex: Registro de hora 06:00 contém previsões de vazão média para período 00:01 a 06:00.

- Simulações com Ensemble ECMWF – Conjunto de 51 forçantes.

- Horário de disparo da previsão: 2021-03-04T00:00 (UTC)

Tabela 3: Valores de vazão afluente média prevista – Modelo GR5i

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Hora** | **Simulação c/ Chuva ECMWF** | | | | | **Simulação c/ Chuva WRF** |
| **Mínimo** | **Quantil 25** | **Mediana** | **Quantil 75** | **Máximo** |
| **Vazão Média Prevista (m³/s)** | | | | | |
| **2021-03-05T06** | **5,82** | **5,95** | **6,081** | **6,268** | **6,62** | **5,681** |
| **2021-03-05T12** | **6,449** | **7,215** | **7,866** | **8,974** | **11,416** | **6,254** |
| **2021-03-05T18** | **8,298** | **10,593** | **11,54** | **14,252** | **22,566** | **9,769** |
| **2021-03-06T00** | **9,923** | **12,894** | **14,253** | **16,838** | **31,129** | **15,101** |
| **2021-03-06T06** | **10,041** | **12,814** | **15,108** | **16,701** | **30,82** | **15,103** |
| **2021-03-06T12** | **9,029** | **12,068** | **13,691** | **15,122** | **26,224** | **12,425** |
| **2021-03-06T18** | **7,721** | **10,342** | **11,524** | **12,938** | **21,318** | **10,757** |
| **2021-03-07T00** | **7,03** | **9,467** | **10,602** | **11,535** | **18,522** | **10,412** |
| **2021-03-07T06** | **6,997** | **9,023** | **10,407** | **11,7** | **17,342** | **11,245** |
| **2021-03-07T12** | **7,032** | **8,733** | **10,48** | **11,635** | **16,865** | **11,509** |
| **2021-03-07T18** | **6,689** | **8,413** | **9,694** | **11,099** | **15,791** | **10,662** |
| **2021-03-08T00** | **6,283** | **8,236** | **9,3** | **10,934** | **14,68** | **10,709** |
| **2021-03-08T06** | **6,011** | **8,036** | **9,567** | **10,679** | **15,327** | **11,401** |
| **2021-03-08T12** | **5,784** | **7,776** | **9,283** | **10,356** | **15,443** | **10,471** |
| **2021-03-08T18** | **5,538** | **7,347** | **8,486** | **9,387** | **13,101** | **9,332** |
| **2021-03-09T00** | **5,302** | **6,931** | **7,831** | **8,693** | **11,398** | **8,616** |
| **2021-03-09T06** | **5,097** | **6,609** | **7,446** | **8,268** | **10,909** | **8,259** |
| **2021-03-09T12** | **4,915** | **6,357** | **7,177** | **8,015** | **10,615** | **7,916** |
| **2021-03-09T18** | **4,724** | **6,126** | **6,844** | **7,621** | **9,913** | **7,504** |
| **2021-03-10T00** | **4,544** | **5,948** | **6,548** | **7,223** | **9,251** | **7,2** |
| **2021-03-10T06** | **4,377** | **5,699** | **6,343** | **7,125** | **8,771** | **6,999** |
| **2021-03-10T12** | **4,222** | **5,568** | **6,131** | **6,951** | **8,513** | **6,71** |
| **2021-03-10T18** | **4,076** | **5,317** | **5,872** | **6,623** | **8,103** | **6,356** |
| **2021-03-11T00** | **3,937** | **5,072** | **5,747** | **6,395** | **8,807** | **6,045** |
| **2021-03-11T06** | **3,805** | **4,982** | **5,578** | **6,189** | **10,63** | **5,788** |
| **2021-03-11T12** | **3,681** | **4,904** | **5,583** | **6,066** | **10,109** | **5,558** |
| **2021-03-11T18** | **3,562** | **4,66** | **5,359** | **5,812** | **8,768** | **5,34** |
| **2021-03-12T00** | **3,449** | **4,459** | **5,054** | **5,574** | **8,525** | **5,172** |

**Observações:**

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- Simulações com Ensemble ECMWF – Conjunto de 51 forçantes.

- Horário de disparo da previsão: 2021-03-04T00:00 (UTC)