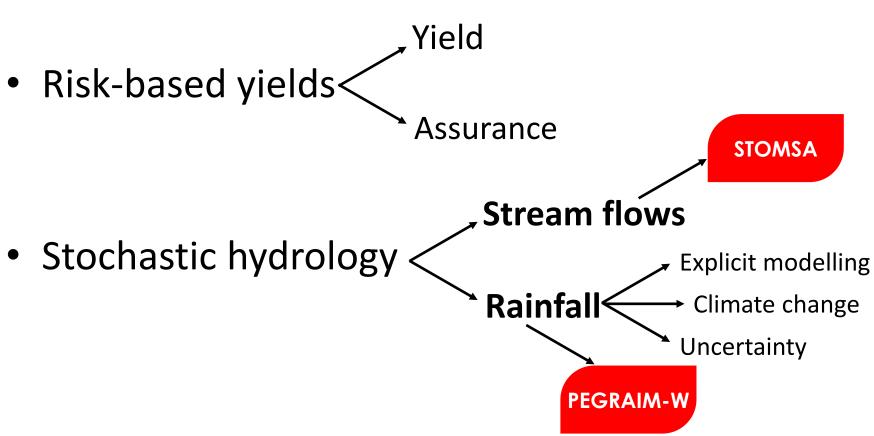


The State of Hydrology (Research) in South Africa: Towards a 10-year Science Plan

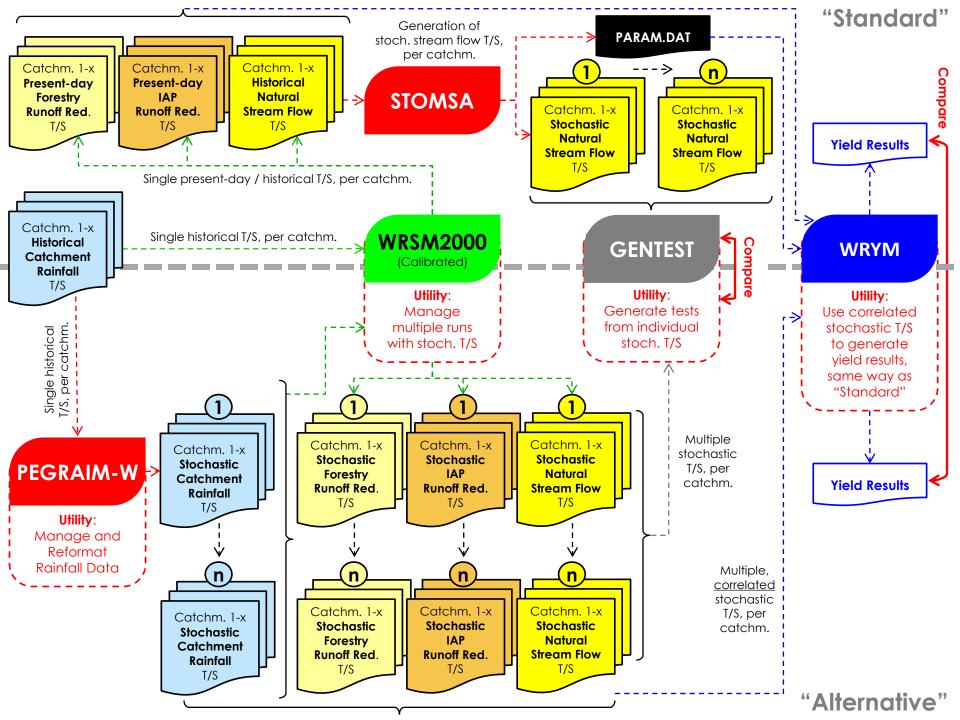
Application of Monthly Stochastic Rainfall in Risk-based Water Resources Yield Assessments (WRC Project K5/2155)

Monday, 31 March 2014, WRC

Project summary



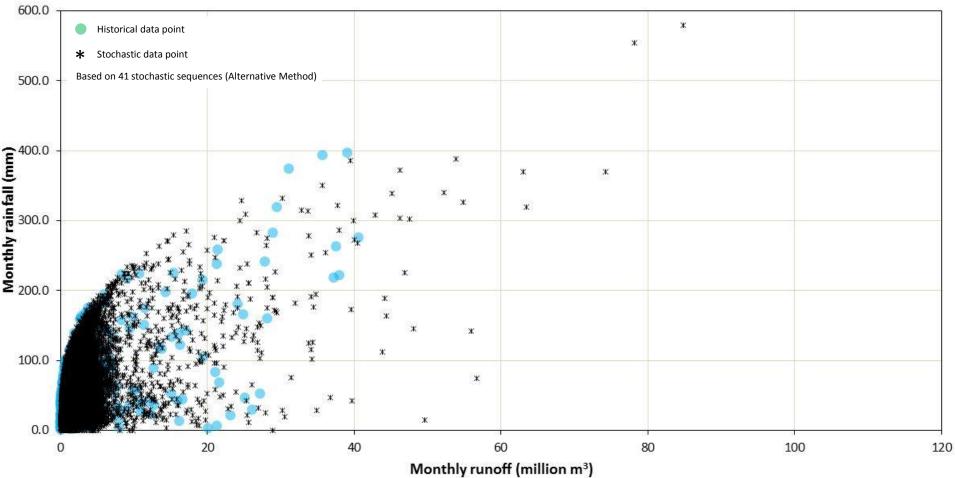
- Conclusion: Yield results compare well
- Recommendation: Implement as alternative



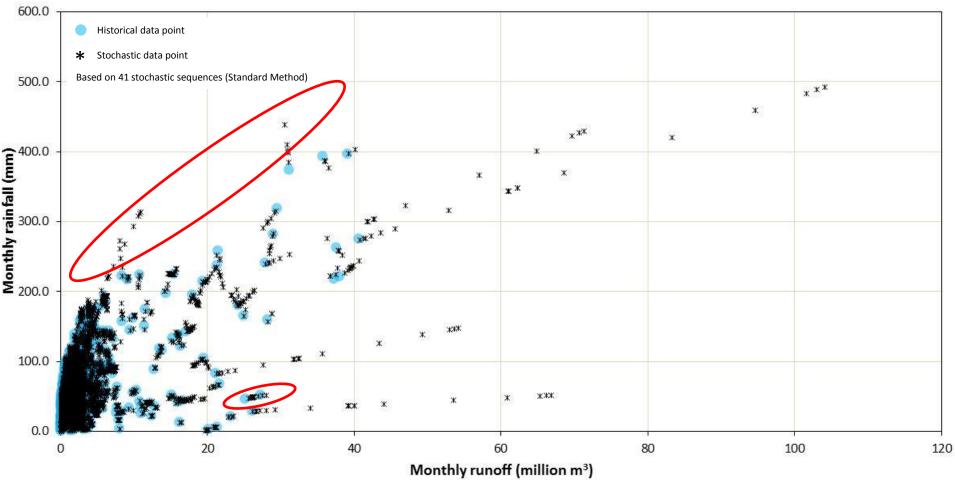


Kouga Dam (L82C)

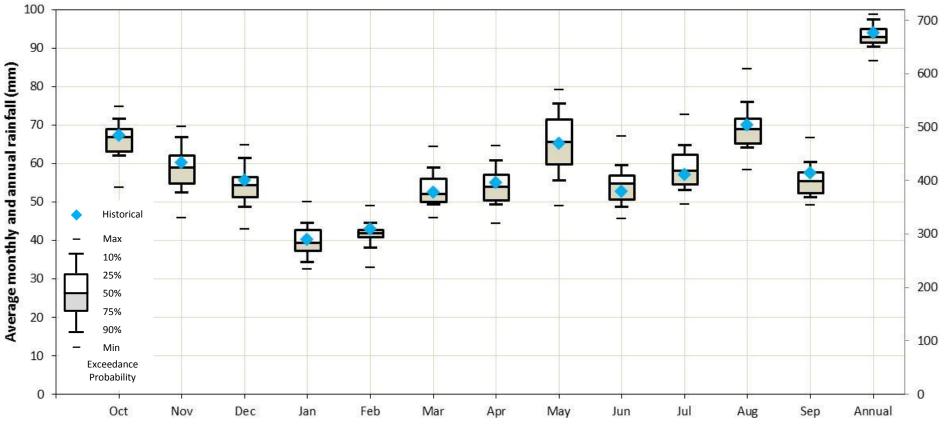
L82C ("Alternative"-method)



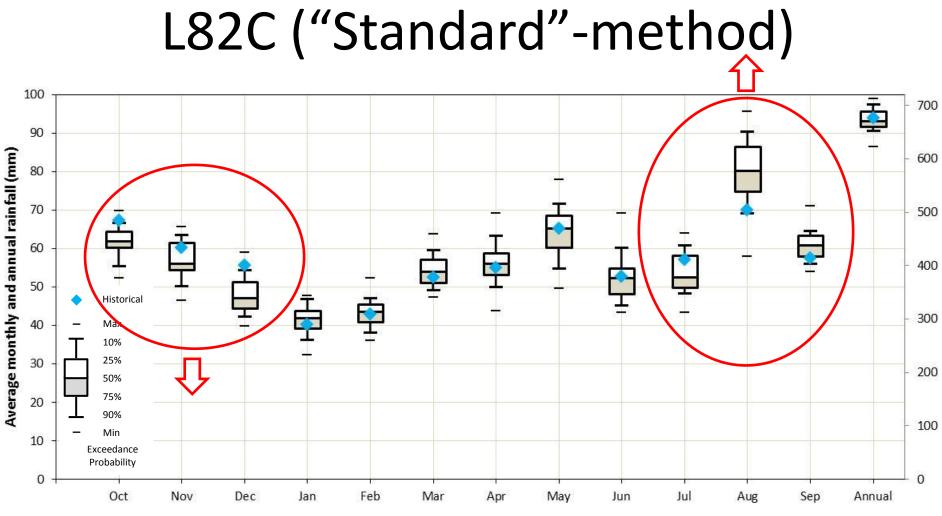
L82C ("Standard"-method)



L82C ("Alternative"-method)

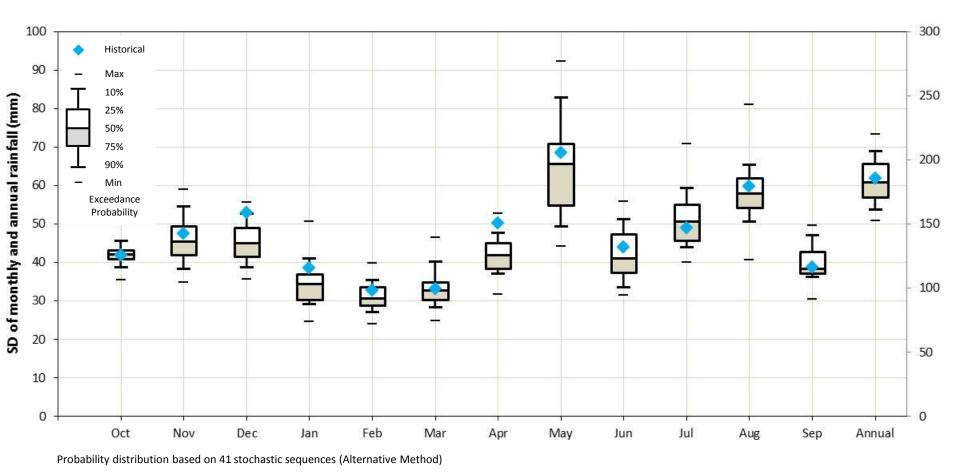




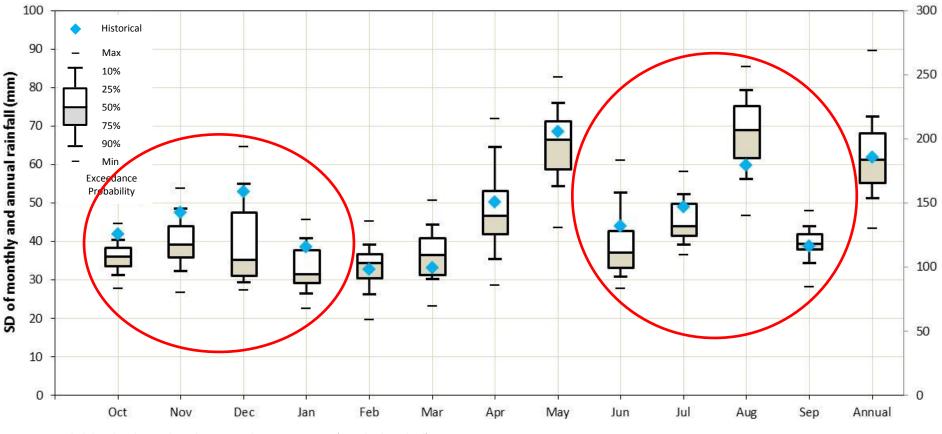


Probability distribution based on 41 stochastic sequences (Standard Method)

L82C ("Alternative"-method)

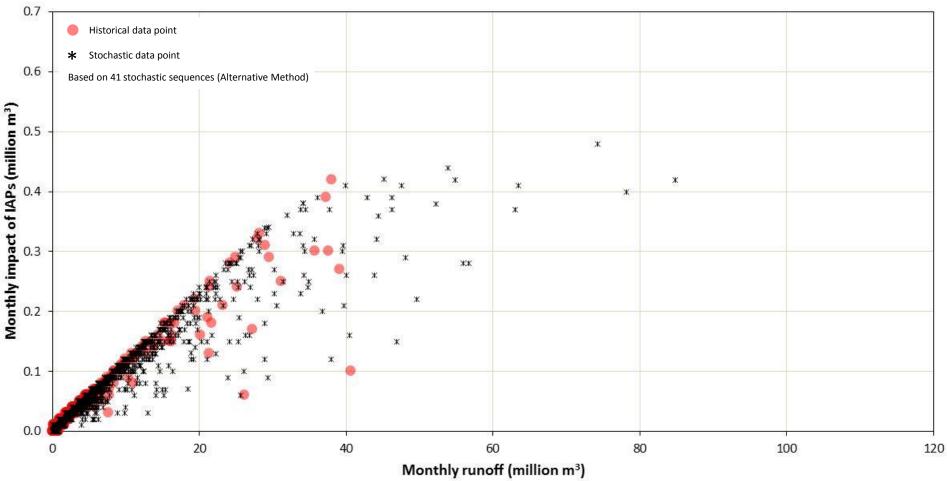


L82C ("Standard"-method)

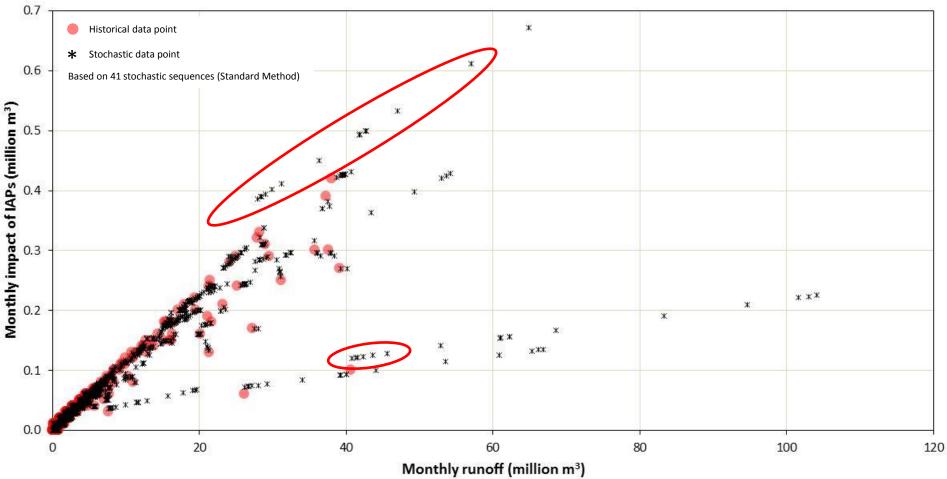


Probability distribution based on 41 stochastic sequences (Standard Method)

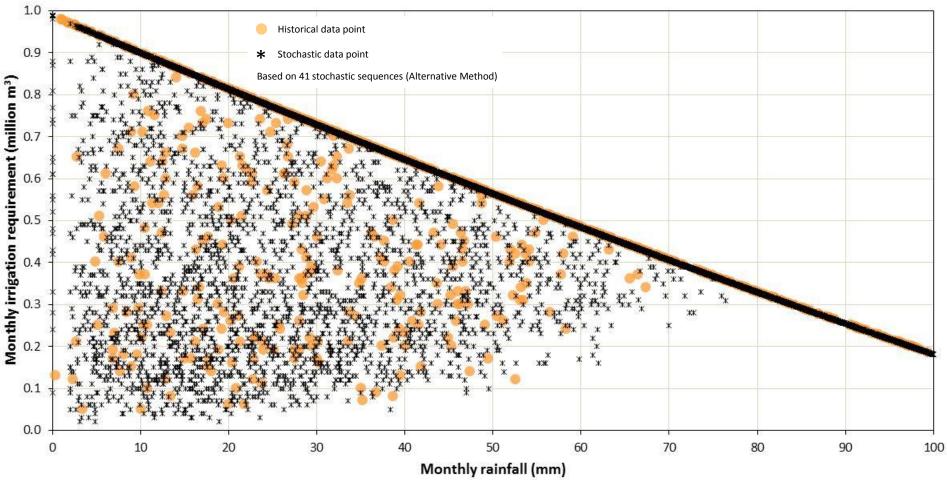
L82C ("Alternative"-method)



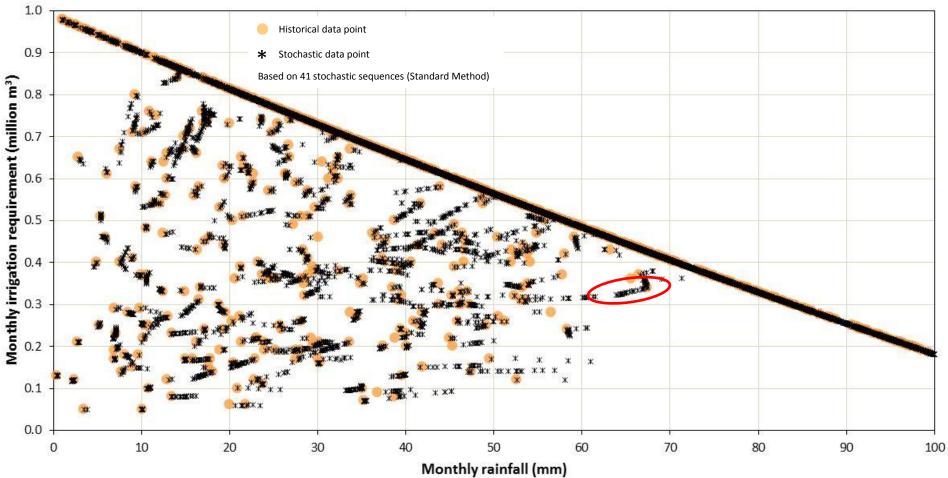
L82C ("Standard"-method)



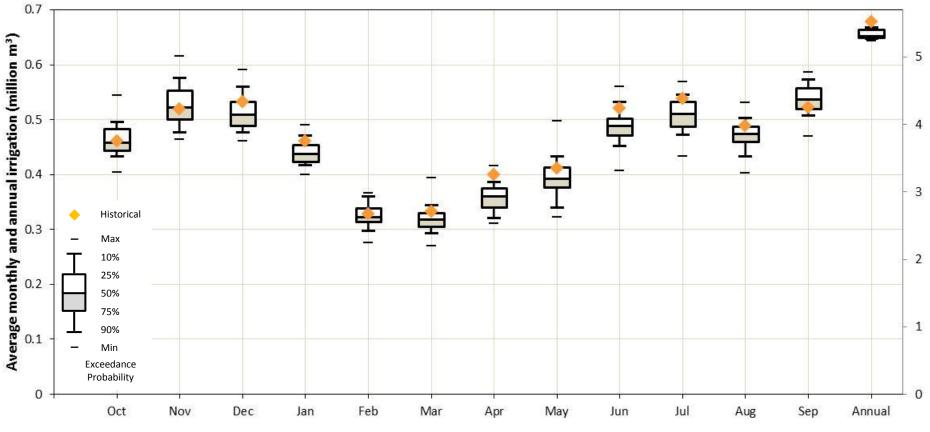
L82C ("Alternative"-method)

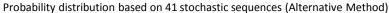


L82C ("Standard"-method)

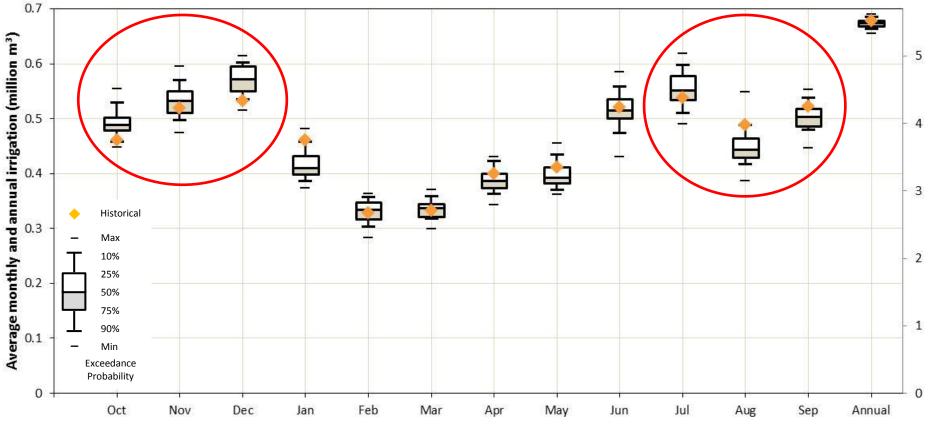


L82C ("Alternative"-method)



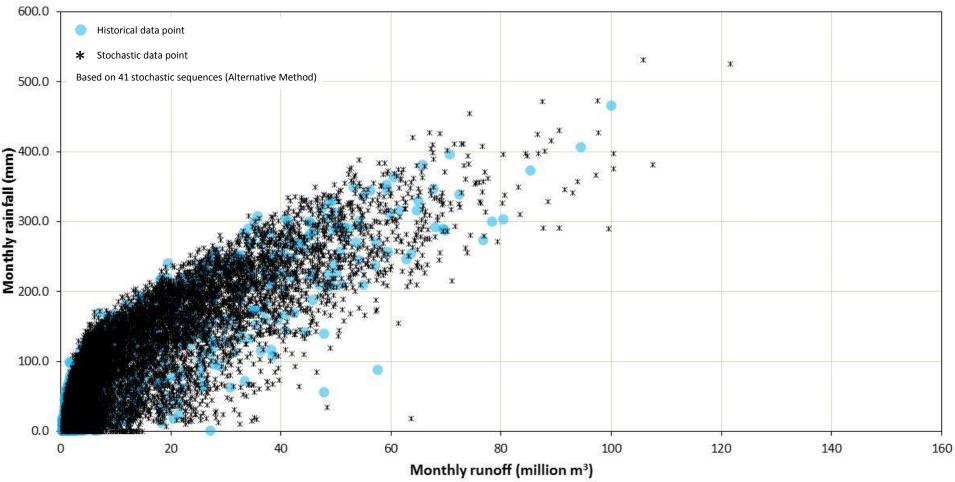


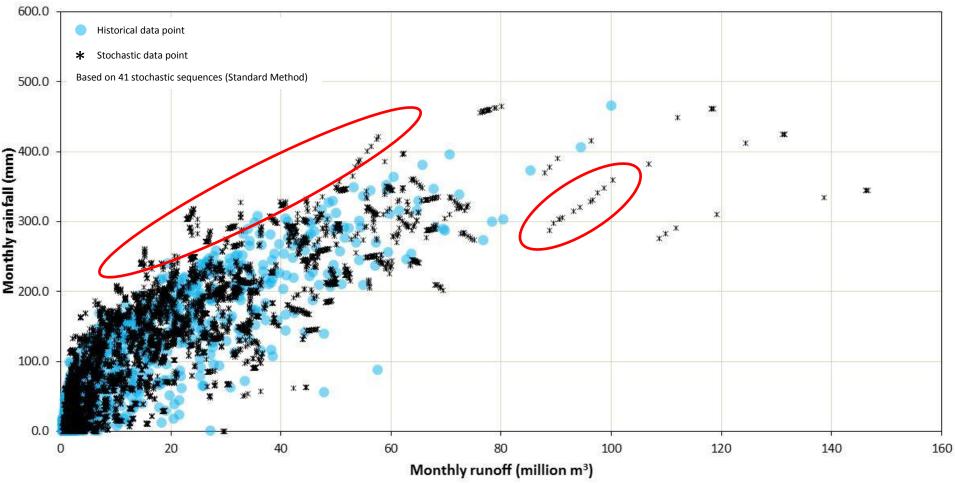
L82C ("Standard"-method)

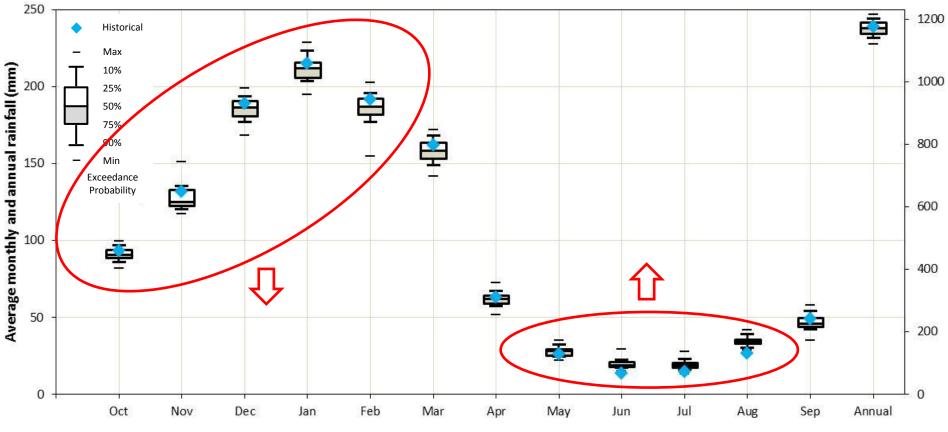




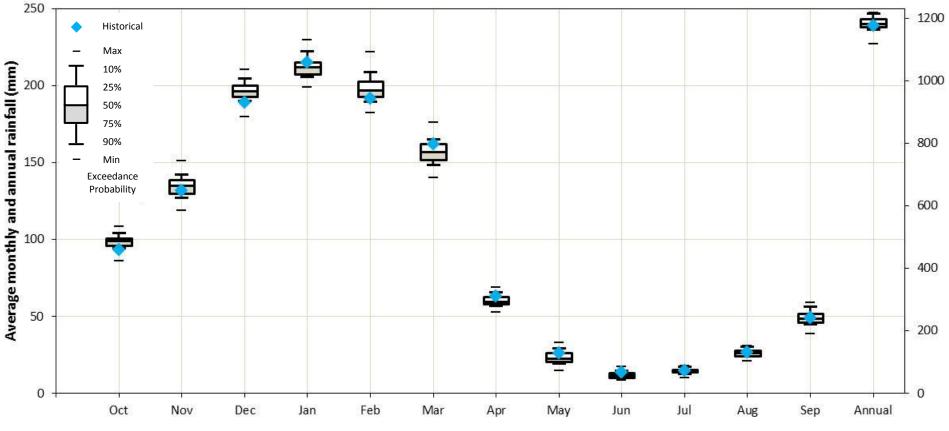
Proposed Smithfield Dam (U10B)



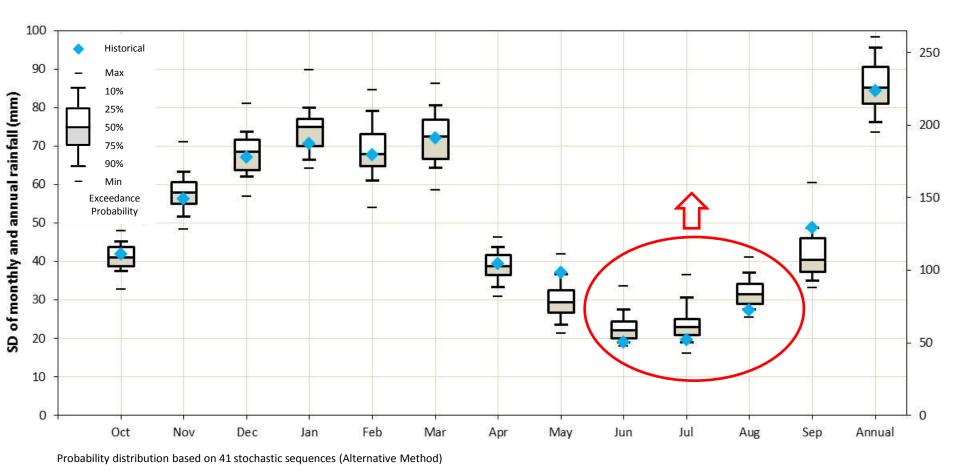


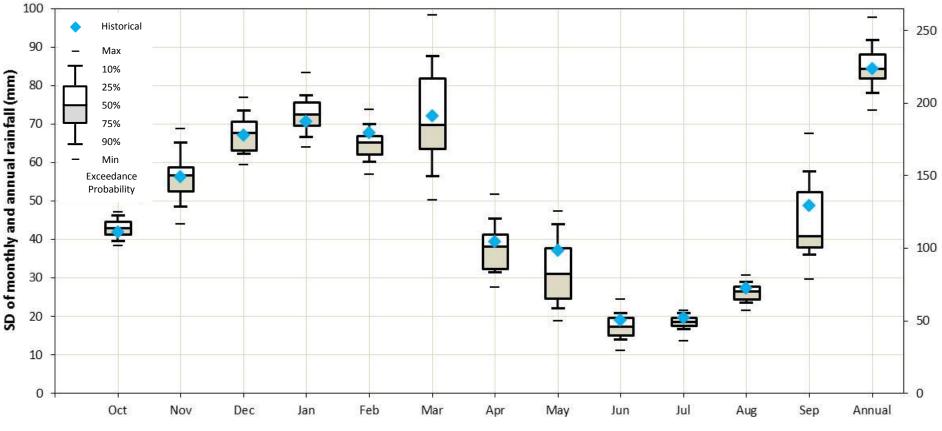


Probability distribution based on 41 stochastic sequences (Alternative Method)

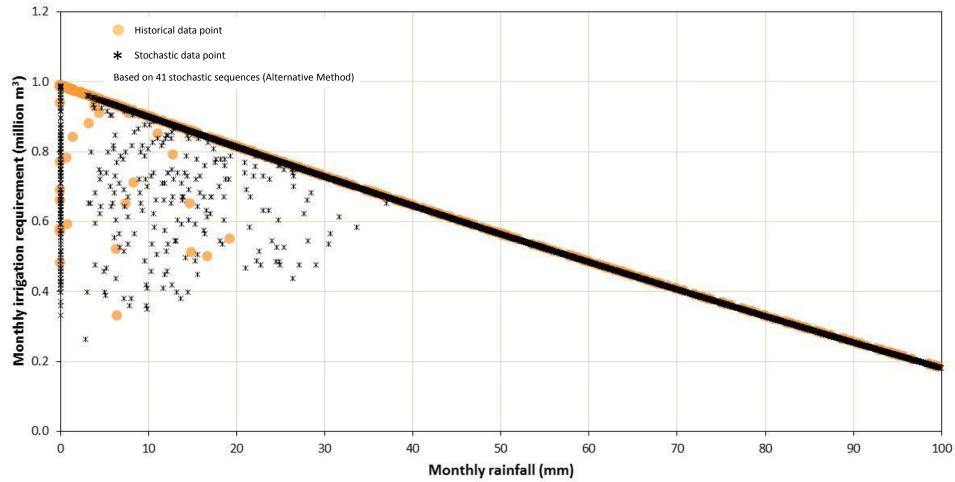


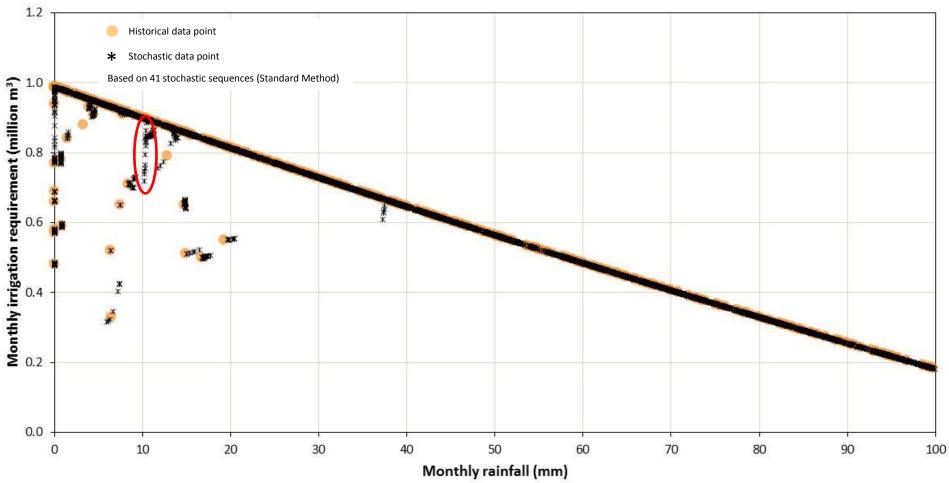
Probability distribution based on 41 stochastic sequences (Standard Method)

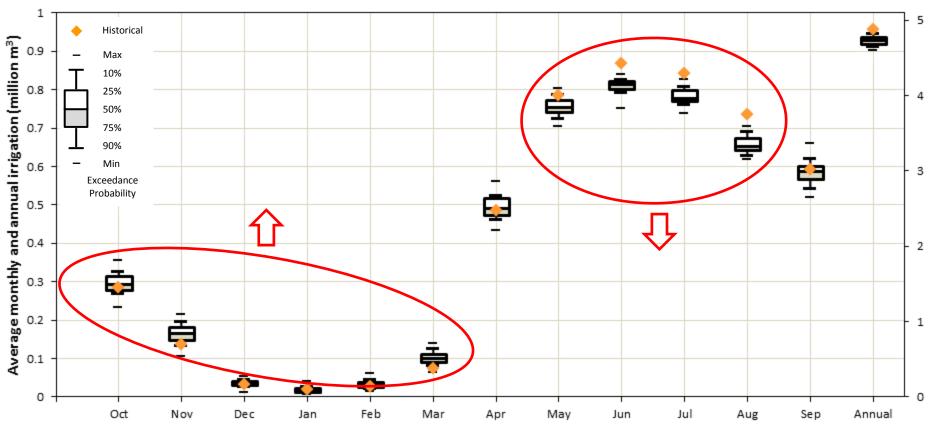




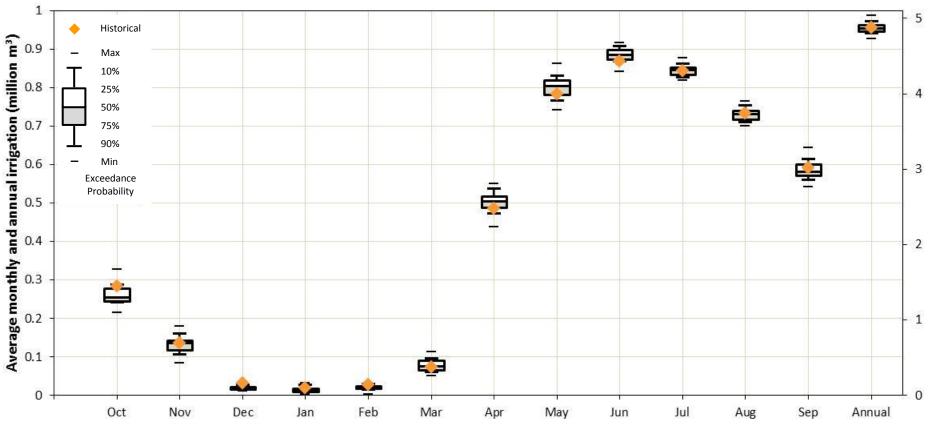
Probability distribution based on 41 stochastic sequences (Standard Method)



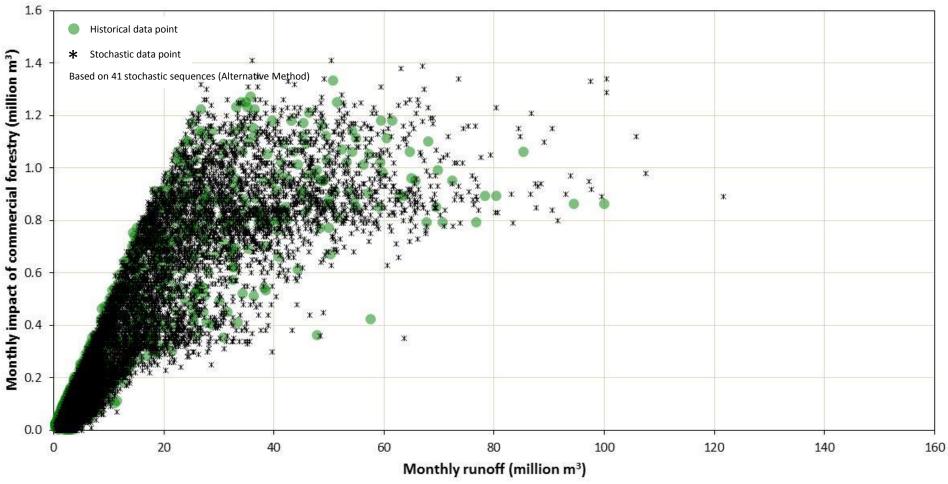


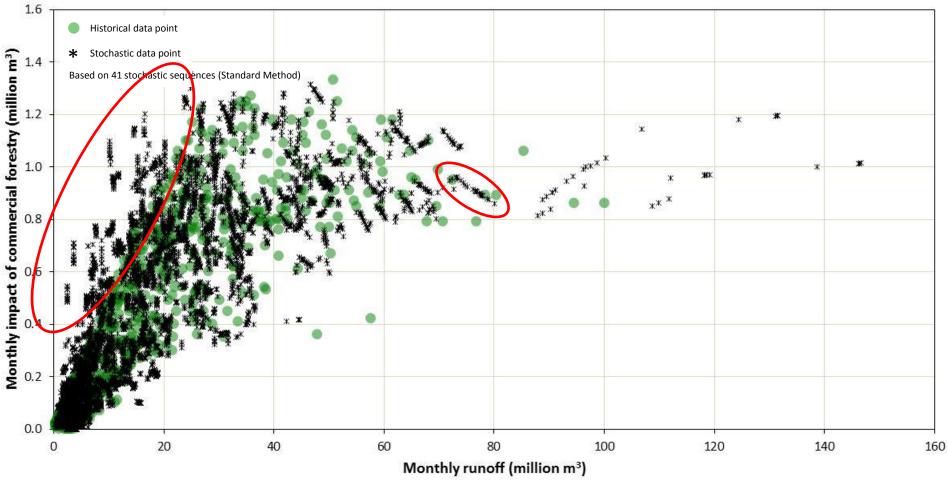


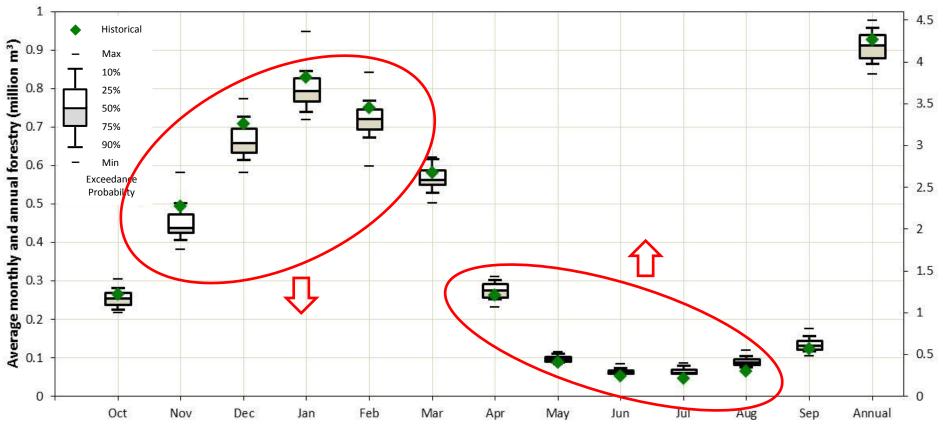
Probability distribution based on 41 stochastic sequences (Alternative Method)



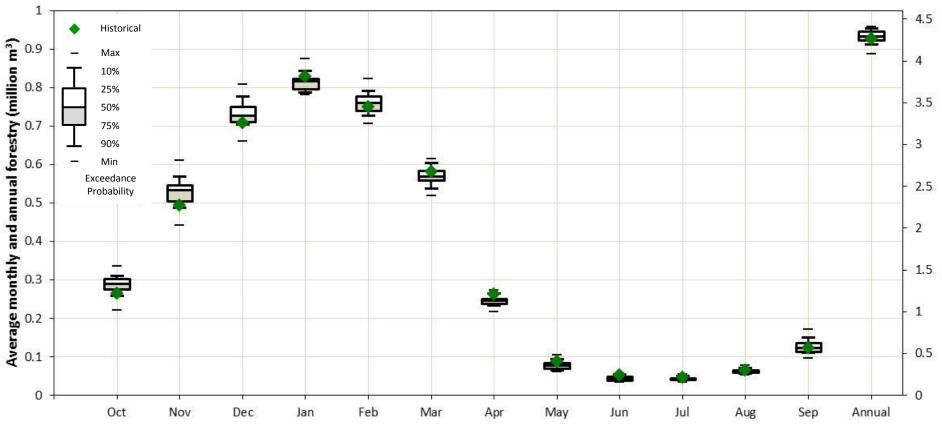
Probability distribution based on 41 stochastic sequences (Standard Method)







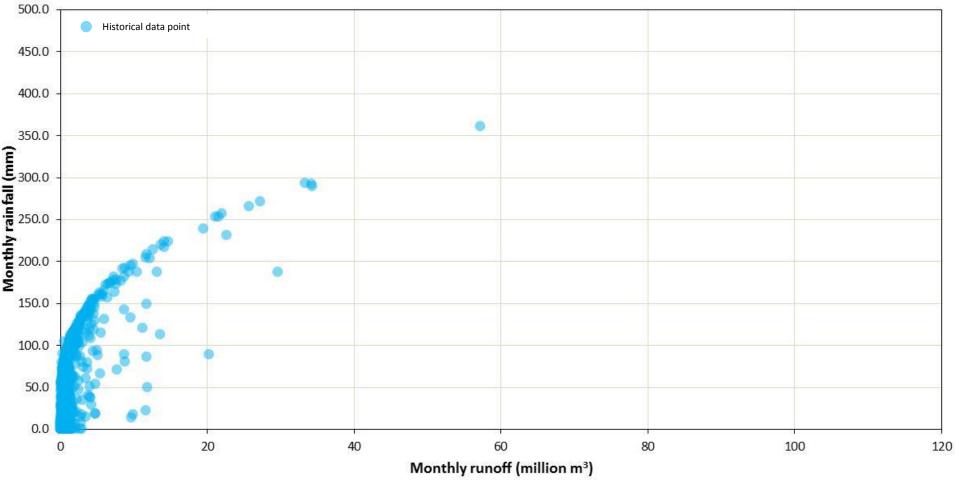
Probability distribution based on 41 stochastic sequences (Alternative Method)

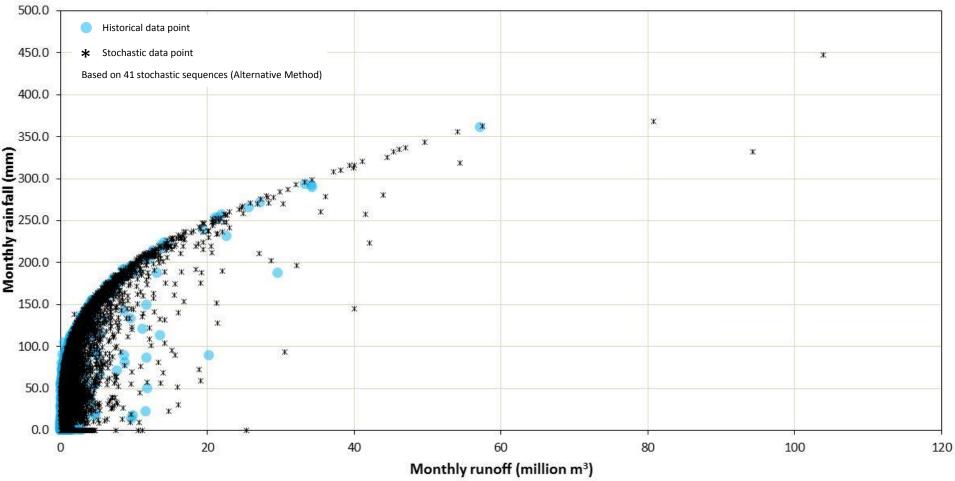


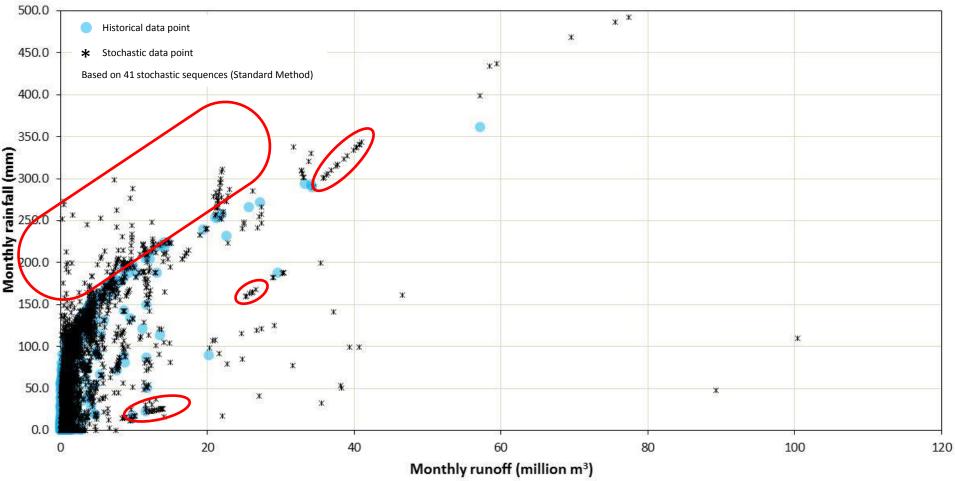
Probability distribution based on 41 stochastic sequences (Standard Method)

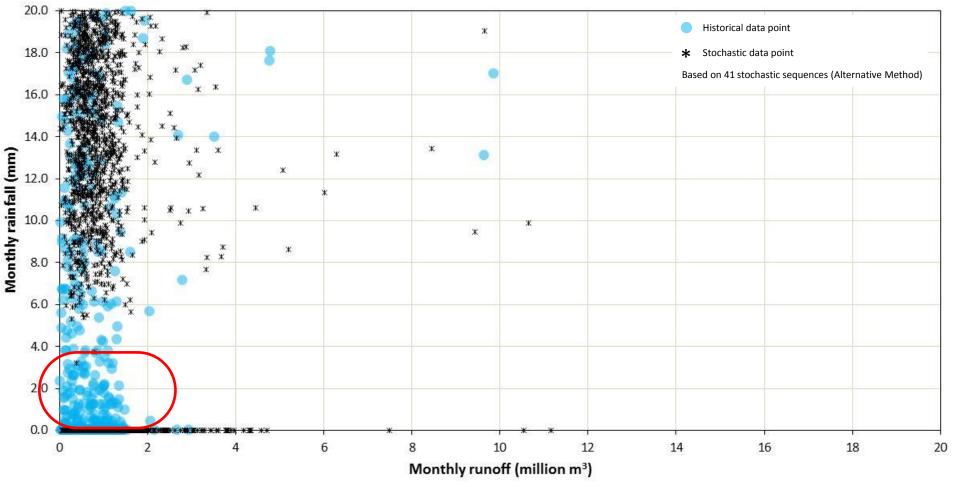
Marico-Bosveld Dam (A31B)

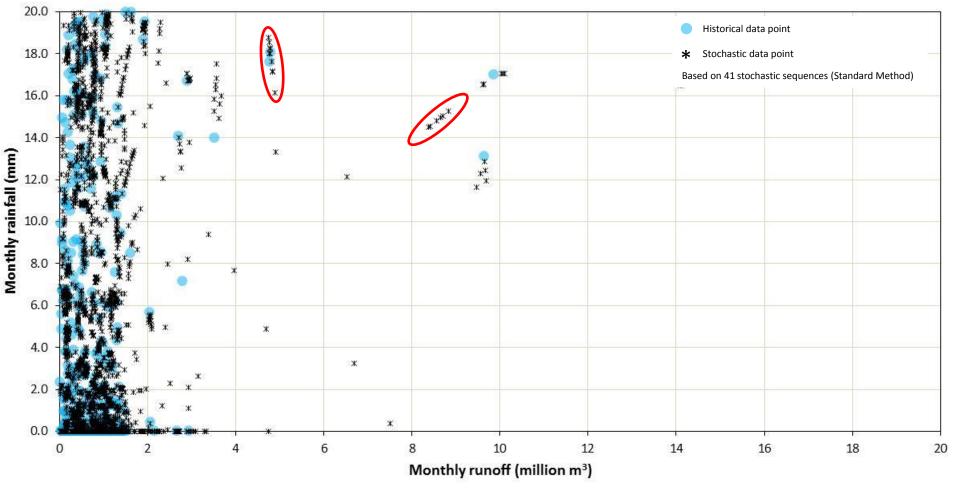
A31B (Historical)



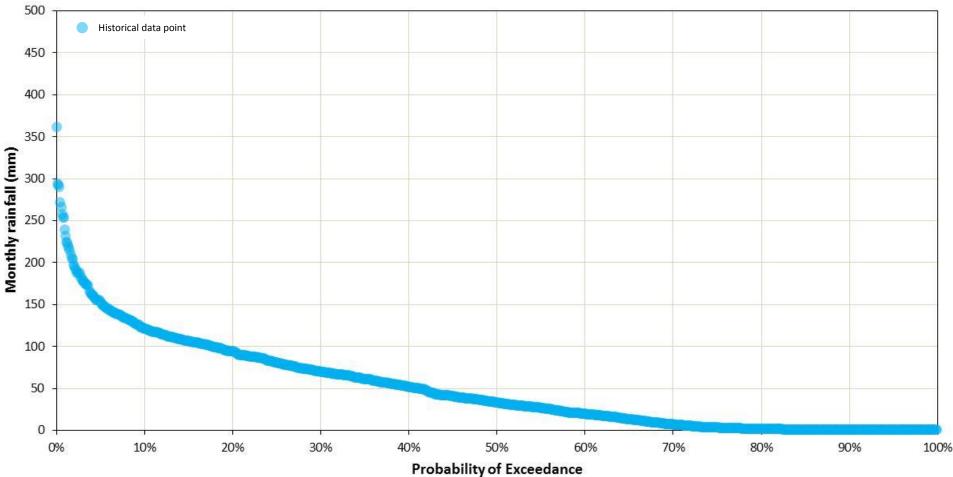


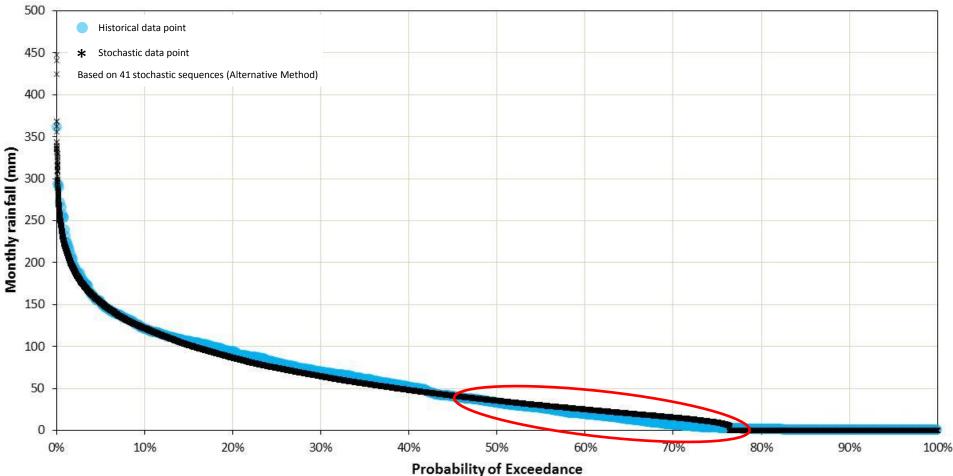


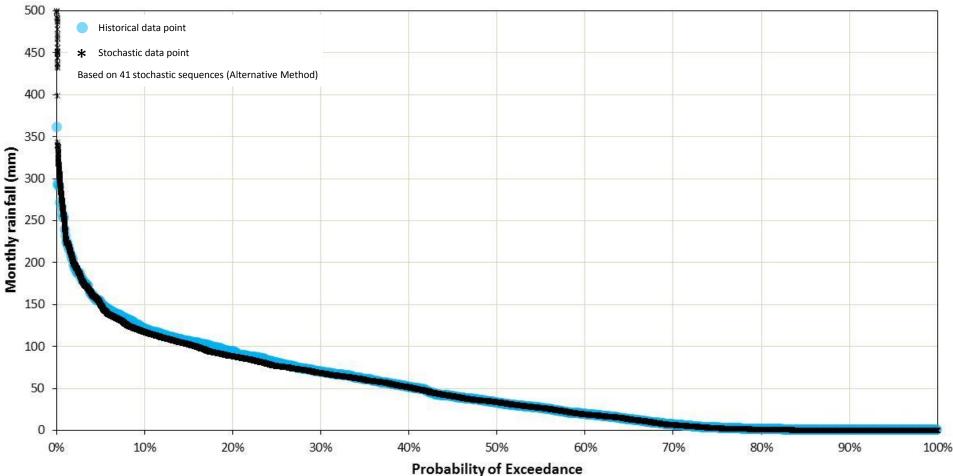


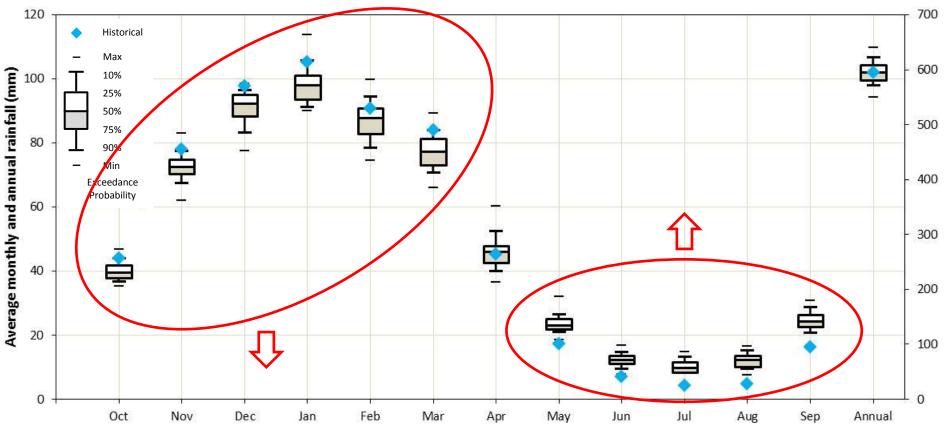


A31B (Historical)

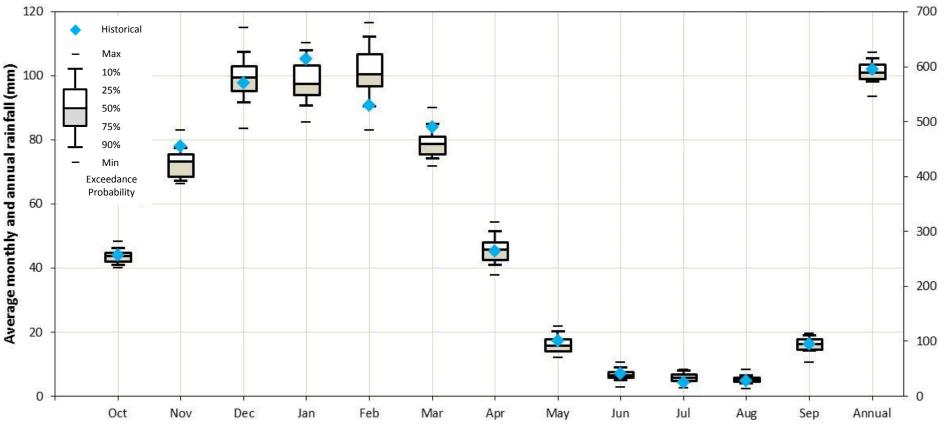




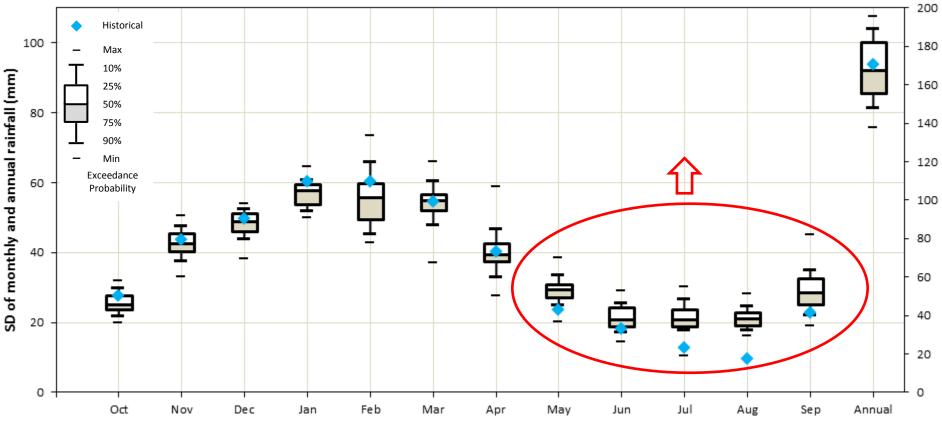




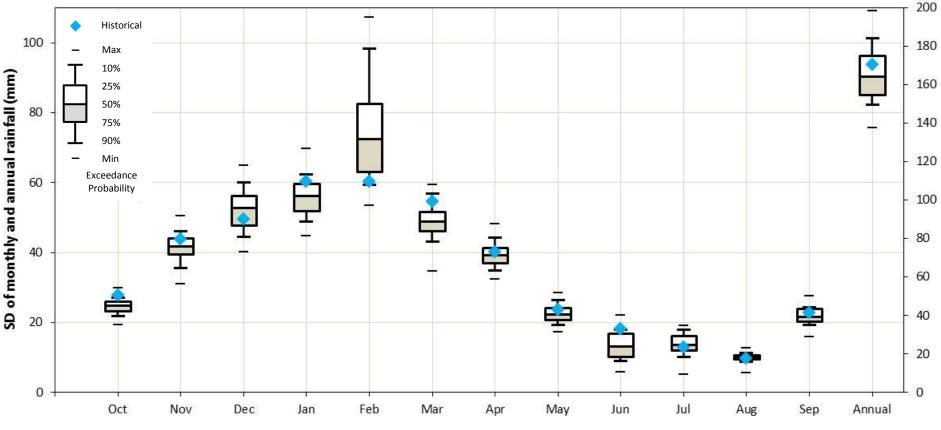
Probability distribution based on 41 stochastic sequences (Alternative Method)



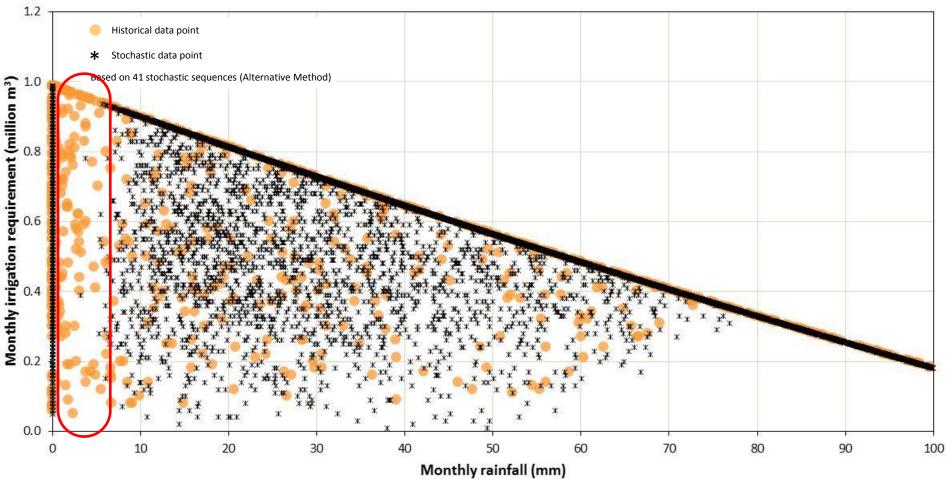
Probability distribution based on 41 stochastic sequences (Standard Method)

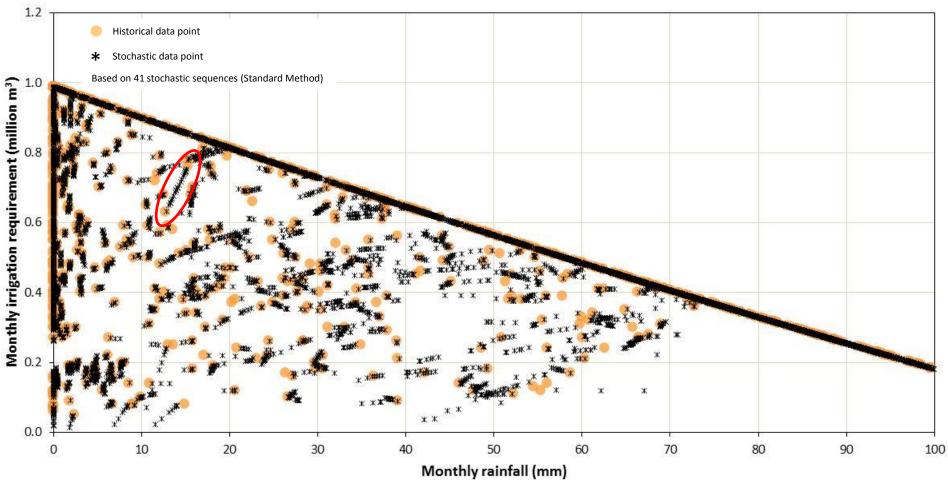


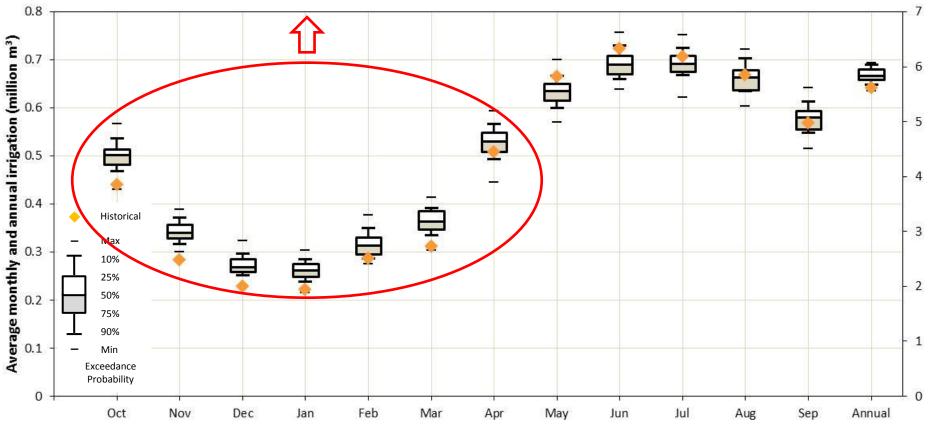
Probability distribution based on 41 stochastic sequences (Alternative Method)











Probability distribution based on 41 stochastic sequences (Alternative Method)

