

CONTENTS

		<u>Page</u>	
	Foreword.....	i	
*	Hydrology Subcommittee.....	iii	
	Page Revisions to Bulletin 17 and 17A.....	v	*
	I. Introduction.....	1	
	II. Summary.....	2	
	A. Information to be Evaluated.....	3	
	B. Data Assumptions.....	3	
*	C. Determination of the Frequency Curve.....	3	*
	D. Reliability Applications.....	4	
	E. Potpourri.....	4	
	F. Appendix.....	4	
	III. Information to be Evaluated.....	4	
	A. Systematic Records.....	4	
	B. Historic Data.....	5	
	C. Comparisons with Similar Watersheds.....	5	
	D. Flood Estimates From Precipitation.....	6	
	IV. Data Assumptions.....	6	
	A. Climatic Trends.....	6	
	B. Randomness of Events.....	6	
	C. Watershed Changes.....	7	
	D. Mixed Populations.....	7	
	E. Reliability of Flow Estimates.....	7	
	V. Determination of Frequency Curve.....	8	
	A. Series Selection.....	8	
	B. Statistical Treatment.....	9	
	1. The Distribution.....	9	
	2. Fitting the Distribution.....	9	
	3. Estimating Generalized Skew.....	10	
*	4. Weighting the Skew Coefficient.....	12	
	5. Broken Record.....	15	
	6. Incomplete Record.....	15	
	7. Zero Flood Years.....	15	
	8. Mixed Populations.....	16	
	9. Outliers.....	17	
	10. Historic Flood Data.....	19	
	C. Refinements to Frequency Curve.....	19	
	1. Comparisons with Similar Watersheds.....	20	
	2. Flood Estimates From Precipitation.....	21	*

	<u>Page</u>
VI. Reliability Application.....	22
A. Confidence Limits.....	23
B. Risk.....	24
C. Expected Probability.....	24
VII. Potpourri.....	25
A. Non-conforming Special Situations.....	25
B. Plotting Position.....	26
C. Future Studies.....	27
Appendices	
1. References.....	1-1
2. Glossary and Notation.....	2-1
3. Table of K Values	3-1
* 4. Outlier Test K Values	4-1
5. Conditional Probability Adjustment.....	5-1
6. Historic Data.....	6-1
7. Two-Station Comparison.....	7-1
8. Weighting of Independent Estimates.....	8-1
9. Confidence Limits.....	9-1
10. Risk.....	10-1
11. Expected Probability.....	11-1
12. Flow Diagram and Example Problems.....	12-1
13. Computer Program.....	13-1
14. "Flood Flow Frequency Techniques" Report Summary.....	14-1