




Darya Zavgorodnyaya (Autor)
Water Users Associations in Uzbekistan: Theory and practice

Darya Zavgorodnyaya

**Water Users Association
in the Republic of Uzbekistan:
Theory and Practice**



 Cuvillier Verlag Göttingen

<https://cuvillier.de/de/shop/publications/1945>

Copyright:
Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen,
Germany
Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>

TABLE OF CONTENTS

1	INTRODUCTION	15
2	BACKGROUND	20
2.1	GEOPHYSICAL INFORMATION ABOUT UZBEKISTAN.....	20
2.2	NATURAL CHARACTERISTICS OF KHOREZM REGION.....	21
2.3	AGRICULTURE OF KHOREZM.....	23
2.4	IRRIGATION OF KHOREZM REGION	23
	2.4.1 <i>Organisation of irrigation system management and water use in the period from the 17th to the middle of the 20th century.....</i>	24
	2.4.2 <i>Specialities of irrigation.....</i>	28
	2.4.3 <i>Stages of irrigation and land-reclamation constructions, its objects.....</i>	30
2.5	TRANSFORMATION IN THE AGRICULTURAL SECTOR	32
2.6	TRANSFORMATION IN THE WATER MANAGEMENT SECTOR	35
2.7	NEW WAVE OF THE REFORMS IN IRRIGATION MANAGEMENT IN 2003	37
2.8	REFORMS IN WATER MANAGEMENT IN KHOREZM IN 2003	39
	2.8.1 <i>Establishment process of (hydrographical) WUAs in Khorezm.....</i>	41
2.9	CONCEPT OF WUAS.....	41
	2.9.1 <i>Unsupported WUAs.....</i>	41
	2.9.2 <i>Supported (pilot) WUAs</i>	44
2.10	SUMMARY AND CONCLUSION.....	47
3	THEORY	49
3.1	DEFINITION OF SUCCESSFUL MANAGEMENT OF IRRIGATION WATER RESOURCES	50
3.2	SYNTHESIS OF FACILITATING CONDITIONS IDENTIFIED BY WADE, OSTROM, BALAND AND PLATTEAU	53
	3.2.1 <i>Resources system characteristics.....</i>	54
	3.2.2 <i>Group characteristics.....</i>	55
	3.2.3 <i>Relationship between resource system characteristics and group characteristics</i>	57
	3.2.4 <i>Institutional arrangements.....</i>	59
	3.2.5 <i>Relationship between resource system and institutional arrangements.....</i>	62
	3.2.6 <i>External environment.....</i>	62
3.3	SUCCESS FACTORS FOR LOCAL WATER MANAGEMENT IN UZBEKISTAN.....	63
4	METHODOLOGY	71
4.1	EXPERT INTERVIEWS ON EVALUATION OF WUAS	71
4.2	THE CASE STUDY APPROACH.....	72
4.3	THE BENCHMARKING APPROACH	78
5	DESCRIPTIVE RESULTS.....	80

5.1	EMBEDDEDNESS OF WUAs IN THE WHOLE AGRICULTURAL SYSTEM.....	80
5.1.1	<i>How were WUAs designed?</i>	80
5.1.2	<i>How do WUAs function?</i>	87
5.2	CHARACTERISTICS OF WUAs IN CONTRAST: SUPPORTED VS. UNSUPPORTED WUAs	97
5.2.1	<i>Resource system characteristics</i>	97
5.2.2	<i>Group characteristics</i>	103
5.2.3	<i>Relationship between resource system characteristics and group characteristics</i>	111
5.2.4	<i>Institutional arrangements</i>	119
5.2.5	<i>External environment</i>	122
6	EMPIRICAL TESTING: ANALYSIS OF FARMERS' PERCEPTIONS IN SUPPORTED AND UNSUPPORTED WUAs	129
6.1	SUPPORTED PROJECT VERSUS KHOREZMIAN WUA	129
6.1.1	<i>Leadership issue</i>	130
6.1.2	<i>Conflict resolution mechanisms</i>	136
6.1.3	<i>Farmers perceptions toward payment of user fees</i>	140
6.2	BEST PRACTICE OF SUPPORTED WUAs VS. UNTRANSFERABLE PRACTICES.....	146
7	SUMMARY AND CONCLUSIONS	153
8	REFERENCES	159
9	APPENDICES.....	167
9.1	APPENDIX A.....	167
9.2	APPENDIX B.....	173
9.3.	APPENDIX C.....	177
9.3.1	<i>Standardized questionnaire</i>	177
9.3.2	<i>Semi-structured interview guidelines (2003-2004)</i>	190
9.3.3	<i>Guidelines for the interviews with international donors</i>	193
9.3.4	<i>Guidelines for the field research 2004-2005</i>	195
9.4	APPENDIX D.....	198