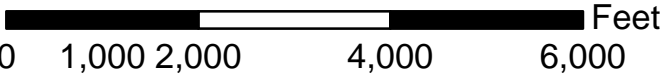


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
18	Wakarusa River_3_49315	44,832	821.6	807.8	3.2	19,141	3,119	1.6
18_TRIB	DDG- 0102_1_1947	46,779	821.6	817.9	3.2	10	45	0.2
17	Wakarusa River_3_45717	48,430	818.0	803.1	3.7	16,750	2,808	2.3
16	Wakarusa River_3_42901	51,246	816.3	799.3	4.6	11,229	3,718	1.0
15	Wakarusa River_3_40476	53,671	816.1	797.0	4.8	10,018	5,397	0.6
14	Wakarusa River_3_37535	56,612	815.4	795.1	5.1	9,270	3,934	1.5
13	Wakarusa River_3_33038	61,108	813.4	789.3	6.1	7,692	2,672	2.1
12	Wakarusa River_3_29500	64,646	811.9	788.1	6.5	7,275	478	2.6
11	Wakarusa River_3_24213	69,934	809.4	785.7	7.0	6,933	420	2.5
10	Wakarusa River_3_21497	72,649	808.0	786.6	7.4	6,726	317	2.7
9	Wakarusa River_3_20079	74,067	807.4	786.4	7.6	6,631	236	2.5
8	Wakarusa River_2_18855	75,291	806.9	786.1	7.7	6,571	307	3.1
8_TRIB	DDG- 0055_1_1742	77,033	806.9	802.3	7.7	10	367	0.0
7	Wakarusa River_2_17014	77,132	806.1	785.6	7.8	6,491	358	2.1
6	Wakarusa River_2_14509	79,637	804.9	785.2	8.0	6,389	188	3.2
5	Wakarusa River_2_12617	81,530	803.7	784.7	8.0	6,356	484	2.1
4	Wakarusa River_1_9192	84,954	802.8	783.9	8.0	6,028	277	2.3
4_TRIB	Little Wakarusa_1_6358	91,312	802.8	790.9	8.0	3	84	0.0
3	Wakarusa River_1_6053	88,093	801.4	782.3	8.0	5,906	173	2.7
2	Wakarusa River_1_3394	90,752	799.4	782.3	8.0	5,809	122	3.9
1	Wakarusa River_1_1939	92,208	797.9	782.3	8.0	5,764	144	3.9

\* Travel time is measured from the initiation of breach formation to the time the breach wave arrives at the section.

The inundation area was developed based on a breach with the water surface at the higher of the Auxiliary Spillway elevation , which is higher than the 100-year,6-hour storm elevation. Cross Sections were developed using 2-meter LIDAR data.

1:24,000



Attachment 1:  
Inundation Area  
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Designed	EWR	Date	06/2009
Drawn	DMM	Date	07/06/2009
Checked	JW	Date	06/2009
Approved	AGB	Date	06/2009

DOUGLAS COUNTY STATE LAKE DAM  
DDG-0281 NID-KS00870  
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/06/2009 Sheet 3 of 3