

Travel distance and travel time matrices between key places in each district

EFFECTS OF FLOOD DAMAGE TO ROAD NETWORK NOT INCLUDED IN THESE CALCULATIONS

Travel distance (Km)	Abim	Amuria	Bududa	Bukedea	Bukwa	Kaabong	Kampala	Kapchorwa	Katakwi	Kitgum	Kotido	Kumi	Lira	Mbale	Moroto	Nangya (Manafwa)	Napianyenya (Nakapipirit)	Pader Palwo	Siroko	Soroti
Abim	0.0	93.5	260.3	194.2	343.4	183.0	463.0	279.0	137.0	148.5	66.1	174.4	124.7	227.5	141.3	252.0	204.6	67.9	237.2	125.5
Amuria	93.5	0.0	168.8	102.8	252.0	256.9	388.9	187.5	50.6	205.3	159.6	83.0	102.1	136.1	158.1	160.6	175.8	163.9	145.7	34.0
Bududa	260.3	168.8	0.0	67.8	163.8	423.7	260.5	99.3	153.3	359.4	326.4	90.1	256.2	34.7	246.3	13.2	145.7	318.0	57.5	135.1
Bukedea	194.2	102.8	67.8	0.0	151.0	357.7	287.8	86.5	85.5	293.4	260.3	24.0	190.2	35.1	174.8	59.6	132.9	251.9	44.7	69.0
Bukwa	343.4	252.0	163.8	151.0	0.0	373.3	383.8	64.5	236.5	442.6	293.9	173.3	339.4	131.1	203.4	155.5	102.9	401.1	106.3	218.2
Kaabong	183.0	256.9	423.7	357.7	373.3	0.0	610.8	380.5	279.4	183.6	117.9	337.9	300.6	391.0	190.2	415.5	270.4	227.4	358.6	288.9
Kampala	463.0	388.9	260.5	287.8	383.8	610.8	0.0	319.3	373.3	434.0	529.1	310.1	338.6	254.7	466.3	245.6	365.7	420.5	277.5	355.1
Kapchorwa	279.0	187.5	99.3	86.5	64.5	380.5	319.3	0.0	172.0	378.1	301.1	108.8	274.9	66.6	210.6	91.1	110.1	336.7	41.8	153.8
Katakwi	137.0	50.6	153.3	85.5	236.5	279.4	373.3	172.0	0.0	248.9	200.0	72.9	145.7	120.6	118.1	145.1	125.9	207.4	130.2	51.4
Kitgum	148.5	205.3	359.4	293.4	442.6	183.6	434.0	378.1	248.9	0.0	214.6	273.6	123.8	326.7	283.0	351.2	346.3	82.1	336.3	224.7
Kotido	66.1	159.6	326.4	260.3	293.9	117.9	529.1	301.1	200.0	214.6	0.0	240.5	190.8	293.7	110.8	318.1	191.0	134.0	279.2	191.6
Kumi	174.4	83.0	90.1	24.0	173.3	337.9	310.1	108.8	72.9	273.6	240.5	0.0	170.4	57.4	162.2	81.9	155.2	232.1	67.0	49.2
Lira	124.7	102.1	256.2	190.2	339.4	300.6	338.6	274.9	145.7	123.8	190.8	170.4	0.0	223.5	253.1	248.0	270.9	82.4	233.1	121.4
Mbale	227.5	136.1	34.7	35.1	131.1	391.0	254.7	66.6	120.6	326.7	293.7	57.4	223.5	0.0	213.5	26.4	113.0	285.3	24.8	102.4
Moroto	141.3	158.1	246.3	174.8	203.4	190.2	466.3	210.6	118.1	283.0	110.8	162.2	253.1	213.5	0.0	238.0	100.6	202.4	188.8	168.7
Nangya	252.0	160.6	13.2	59.6	155.5	415.5	245.6	91.1	145.1	351.2	318.1	81.9	248.0	26.4	238.0	0.0	137.5	309.7	49.3	126.8
Napianyenya	204.6	175.8	145.7	132.9	102.9	270.4	365.7	110.1	125.9	346.3	191.0	155.2	270.9	113.0	100.6	137.5	0.0	265.7	88.2	176.6
Pader Palwo	67.9	163.9	318.0	251.9	401.1	227.4	420.5	336.7	207.4	82.1	134.0	232.1	82.4	285.3	202.4	309.7	265.7	0.0	294.9	183.2
Siroko	237.2	145.7	57.5	44.7	106.3	358.6	277.5	41.8	130.2	336.3	279.2	67.0	233.1	24.8	188.8	49.3	88.2	294.9	0.0	112.0
Soroti	125.5	34.0	135.1	69.0	218.2	288.9	355.1	153.8	51.4	224.7	191.6	49.2	121.4	102.4	168.7	126.8	176.6	183.2	112.0	0.0

Travel time (hrs)	Abim	Amuria	Bududa	Bukedea	Bukwa	Kaabong	Kampala	Kapchorwa	Katakwi	Kitgum	Kotido	Kumi	Lira	Mbale	Moroto	Nangya (Manafwa)	Napianyenya (Nakapipirit)	Pader Palwo	Siroko	Soroti
Abim	0.0	2.2	5.1	3.9	7.6	3.7	8.4	5.5	3.0	3.0	1.3	3.6	2.8	4.5	2.8	5.0	4.1	1.4	4.7	2.8
Amuria	2.2	0.0	3.0	1.8	5.5	5.2	6.6	3.4	1.1	4.1	3.5	1.5	2.0	2.4	3.3	2.9	3.5	3.3	2.6	0.7
Bududa	5.1	3.0	0.0	1.2	4.0	8.2	4.6	1.9	3.1	6.8	6.5	1.6	4.7	0.7	4.8	0.3	2.8	6.0	1.0	2.3
Bukedea	3.9	1.8	1.2	0.0	3.7	7.0	4.8	1.6	1.9	5.6	5.3	0.4	3.5	0.6	4.0	1.1	2.5	4.8	0.8	1.2
Bukwa	7.6	5.5	4.0	3.7	0.0	9.2	7.6	2.1	5.6	9.3	7.6	4.1	7.2	3.4	5.8	3.9	3.8	8.5	3.0	4.9
Kaabong	3.7	5.2	8.2	7.0	9.2	0.0	11.2	7.6	5.6	3.7	2.4	6.7	6.0	7.5	3.8	8.0	5.4	4.6	7.2	5.8
Kampala	8.4	6.6	4.6	4.8	7.6	11.2	0.0	5.5	6.7	7.7	9.7	5.2	5.6	4.2	8.4	4.3	6.4	7.3	4.6	5.9
Kapchorwa	5.5	3.4	1.9	1.6	2.1	7.6	5.5	0.0	3.5	7.2	6.0	2.0	5.1	1.2	4.2	1.7	2.2	6.4	0.8	2.7
Katakwi	3.0	1.1	3.1	1.9	5.6	5.6	6.7	3.5	0.0	5.0	4.0	1.6	2.9	2.5	2.4	2.9	2.5	4.2	2.6	1.0
Kitgum	3.0	4.1	6.8	5.6	9.3	3.7	7.7	7.2	5.0	0.0	4.3	5.3	2.4	6.2	5.7	6.7	6.9	1.7	6.4	4.5
Kotido	1.3	3.5	6.5	5.3	7.6	2.4	9.7	6.0	4.0	4.3	0.0	4.9	4.1	5.8	2.2	6.3	3.8	2.7	5.6	4.1
Kumi	3.6	1.5	1.6	0.4	4.1	6.7	5.2	2.0	1.6	5.3	4.9	0.0	3.2	1.0	3.7	1.4	2.9	4.5	1.1	0.8
Lira	2.8	2.0	4.7	3.5	7.2	6.0	5.6	5.1	2.9	2.4	4.1	3.2	0.0	4.1	5.1	4.6	5.4	1.6	4.3	2.4
Mbale	4.5	2.4	0.7	0.6	3.4	7.5	4.2	1.2	2.5	6.2	5.8	1.0	4.1	0.0	4.2	0.5	2.2	5.4	0.4	1.7
Moroto	2.8	3.3	4.8	4.0	5.8	3.8	8.4	4.2	2.4	5.7	2.2	3.7	5.1	4.2	0.0	4.7	2.0	4.1	3.8	3.3
Nangya	5.0	2.9	0.3	1.1	3.9	8.0	4.3	1.7	2.9	6.7	6.3	1.4	4.6	0.5	4.7	0.0	2.6	5.9	0.9	2.2
Napianyenya	4.1	3.5	2.8	2.5	3.8	5.4	6.4	2.2	2.5	6.9	3.8	2.9	5.4	2.2	2.0	2.6	0.0	5.3	1.8	3.5
Pader Palwo	1.4	3.3	6.0	4.8	8.5	4.6	7.3	6.4	4.2	1.7	2.7	4.5	1.6	5.4	4.1	5.9	5.3	0.0	5.5	3.7
Siroko	4.7	2.6	1.0	0.8	3.0	7.2	4.6	0.8	2.6	6.4	5.6	1.1	4.3	0.4	3.8	0.9	1.8	5.5	0.0	1.9
Soroti	2.8	0.7	2.3	1.2	4.9	5.8	5.9	2.7	1.0	4.5	4.1	0.8	2.4	1.7	3.3	2.2	3.5	3.7	1.9	0.0

