

SOCIALIST REPUBLIC OF VIETNAM

**DATA COLLECTION SURVEY ON
WATER RESOURCES MANAGEMENT
IN CENTRAL HIGHLANDS**

FINAL REPORT

Appendices

April 2018

Japan International Cooperation Agency (JICA)

Nippon Koei Co., Ltd.

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Appendices
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AP 3.1.1 Monthly Rainfall Data of Central Highlands

Station: Kon Tum		ID: RKT02											Longitude 108	
Province: Kon Tum		Latitude: 14.33333											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	135.5	77.1	45.2	211.7	155.8	493.1	48.7	51.8	0.0	1,218.9	
1978	8.3	0.0	42.2	89.6	150.9	201.3	346.6	417.6	435.4	78.9	9.1	0.0	1,779.9	
1979	0.0	0.0	25.2	56.0	203.6	531.3	271.9	447.6	276.2	99.2	20.6	1.0	1,932.6	
1980	0.8	0.0	15.7	36.9	474.1	342.8	216.0	346.0	367.4	176.3	56.0	0.0	2,032.0	
1981	0.0	0.0	0.0	106.6	201.2	418.2	411.6	304.0	167.6	252.6	65.1	0.2	1,927.1	
1982	0.0	0.0	2.7	39.4	104.7	499.2	268.9	128.2	321.8	77.9	69.5	0.0	1,512.3	
1983	0.0	0.0	4.6	48.4	159.3	313.9	242.0	359.6	308.9	373.5	41.6	0.0	1,851.8	
1984	0.0	0.0	92.3	224.8	202.3	404.8	106.0	501.4	160.9	228.2	124.7	0.0	2,045.4	
1985	0.0	2.2	27.0	103.1	130.3	325.5	289.1	278.1	262.5	80.0	70.0	0.0	1,567.8	
1986	0.0	59.9	3.9	29.5	525.0	216.4	264.0	494.1	202.1	306.9	57.9	107.7	2,267.4	
1987	0.0	0.0	7.6	0.0	225.5	188.2	216.6	286.3	231.5	34.5	138.2	0.0	1,328.4	
1988	0.0	5.2	5.5	184.2	141.0	321.2	207.2	158.2	209.8	286.7	9.2	0.0	1,528.2	
1989	0.0	0.0	54.2	41.0	459.3	170.8	418.7	278.3	322.6	105.8	10.6	0.0	1,861.3	
1990	0.0	53.9	50.5	54.4	288.7	264.8	257.4	337.2	176.2	347.5	119.5	0.0	1,950.1	
1991	0.0	0.8	56.5	75.7	56.8	166.9	253.9	332.3	354.9	179.2	15.3	0.0	1,492.3	
1992	3.5	0.0	20.5	124.0	128.6	237.9	284.3	363.3	155.2	177.1	0.2	0.1	1,494.7	
1993	0.0	0.2	36.3	103.7	228.4	147.7	374.7	294.9	267.1	150.4	36.7	16.8	1,656.9	
1994	0.0	40.7	13.0	87.9	349.4	210.5	482.0	204.4	412.7	54.6	0.2	11.5	1,866.9	
1995	0.0	0.4	85.5	31.2	114.3	148.8	345.1	439.0	103.4	195.9	110.7	1.4	1,575.7	
1996	0.0	37.2	135.4	99.7	234.6	282.7	245.4	282.1	563.6	115.0	237.2	32.4	2,265.3	
1997	0.2	17.9	19.5	217.3	314.2	111.3	325.8	374.6	278.7	156.3	23.2	0.2	1,839.2	
1998	0.0	4.1	0.0	88.3	123.6	71.8	104.7	186.8	311.9	139.9	170.0	15.5	1,216.6	
1999	3.6	16.4	66.9	39.2	252.4	195.8	193.0	299.6	343.7	119.1	111.2	41.5	1,682.4	
2000	0.3	14.6	7.6	181.5	151.1	332.1	537.9	385.3	328.8	283.6	33.8	1.1	2,257.7	
2001	0.0	0.0	39.2	103.1	286.3	339.1	245.6	512.2	258.7	152.6	19.3	16.7	1,972.8	
2002	0.0	0.0	10.2	47.2	239.5	300.6	320.9	360.3	437.6	91.1	19.8	0.0	1,827.2	
2003	2.6	0.0	0.2	68.9	313.5	181.8	246.6	230.5	254.9	259.3	22.0	0.0	1,580.3	
2004	0.0	0.0	35.4	34.0	295.8	399.4	261.7	420.8	303.8	12.4	12.6	0.0	1,775.9	
2005	0.0	6.8	4.4	120.8	175.4	151.1	466.3	465.1	393.3	90.4	76.9	5.6	1,956.1	
2006	0.0	4.7	118.6	91.2	368.4	175.1	668.9	498.7	420.7	115.5	9.4	0.6	2,471.8	
2007	0.0	8.2	47.9	54.0	264.4	349.0	259.1	397.8	100.1	236.7	194.0	0.0	1,911.2	
2008	1.3	0.0	143.2	87.4	298.5	62.5	370.9	395.6	367.7	234.1	63.2	2.9	2,027.3	
2009	0.0	6.5	48.6	213.9	203.1	139.6	347.5	206.1	763.0	170.4	27.1	0.0	2,125.8	
2010	0.0	1.1	0.0	83.6	105.6	208.2	229.0	408.2	68.7	177.4	79.4	0.0	1,361.2	
2011	0.0	0.0	20.7	58.1	588.1	373.3	393.8	303.1	319.0	428.8	34.0	0.0	2,518.9	
2012	0.0	0.0	190.3	125.4	305.2	278.6	189.6	259.4	340.9	124.3	42.6	0.0	1,856.3	
2013	0.0	0.0	37.9	150.8	229.2	168.6	266.1	322.2	611.4	301.7	170.0	5.2	2,263.1	
2014	0.0	0.0	43.6	139.4	ND	ND	ND	ND	ND	ND	ND	ND	IC	
2015	0.0	12.5	85.9	74.5	168.0	237.6	293.1	334.2	177.2	120.9	47.6	0.0	1,551.5	
2016	3.1	0.0	0.0	52.4	138.2	435.1	284.6	264.3	391.0	275.2	98.9	51.4	1,994.2	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	0.7	8.1	39.4	89.6	248.4	240.9	290.6	319.6	307.7	176.0	59.9	7.0	1,805.1	
Max	12.3	59.9	190.3	224.8	588.1	531.3	668.9	512.2	763.0	688.7	237.2	107.7	2,518.9	

Legend: ND=No Data, IC=Incomplete Data

Station: Dak To		ID: RKT01										Longitude 107.8333	
Province: Kon Tum		Latitude: 14.65										Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1977	0.0	0.0	0.0	14.9	153.2	95.3	299.1	298.9	454.6	62.4	21.5	0.0	1,399.9
1978	4.9	1.6	148.0	137.3	316.0	303.6	295.0	560.5	340.5	55.9	14.4	0.0	2,177.7
1979	0.0	0.0	11.5	115.7	305.0	630.2	403.4	508.1	257.2	49.5	33.2	0.9	2,314.7
1980	0.0	0.2	73.0	91.4	310.0	358.5	407.1	373.6	247.6	256.7	71.7	0.0	2,189.8
1981	4.6	0.0	2.2	49.4	181.4	634.4	277.0	669.9	76.3	257.2	71.2	0.0	2,223.6
1982	0.0	1.6	21.0	54.6	98.2	561.1	462.2	327.3	458.1	68.0	40.5	2.0	2,094.6
1983	0.0	0.0	0.0	89.9	207.2	320.9	189.6	422.7	227.1	396.1	54.1	0.0	1,907.6
1984	0.0	0.0	111.4	181.5	204.9	457.0	205.0	631.0	176.6	162.8	76.6	18.2	2,225.0
1985	0.0	41.7	25.2	154.4	116.4	456.8	235.5	583.9	309.5	198.2	109.5	5.6	2,236.7
1986	0.0	0.4	13.5	109.7	495.7	148.2	272.3	528.2	347.7	183.0	36.3	90.8	2,225.8
1987	0.0	12.9	9.1	23.7	175.5	235.3	348.6	382.2	305.2	95.7	91.2	0.0	1,679.4
1988	0.0	0.4	2.3	105.2	361.4	243.7	257.3	166.7	155.0	316.7	2.6	0.0	1,611.3
1989	0.6	0.0	70.4	190.4	264.2	239.5	468.2	398.7	313.6	118.4	3.9	0.0	2,067.9
1990	0.0	7.6	80.8	43.6	377.5	229.5	265.8	271.4	190.4	232.7	37.0	0.0	1,736.3
1991	0.0	1.2	58.1	29.1	144.0	211.5	229.7	461.7	367.5	82.1	4.0	0.0	1,588.9
1992	10.2	0.3	47.0	32.0	178.8	232.9	235.2	384.0	218.2	88.1	0.0	3.0	1,429.7
1993	0.0	0.4	2.3	105.2	361.4	243.7	257.3	166.7	155.0	316.7	2.6	0.0	1,611.3
1994	0.0	29.8	51.1	115.1	214.1	203.4	446.2	295.6	489.6	97.0	0.3	32.4	1,974.6
1995	0.0	1.9	35.3	69.4	266.2	256.2	236.1	329.2	275.6	161.5	75.3	2.5	1,709.2
1996	0.0	16.2	38.8	114.4	175.9	237.3	264.1	407.7	259.2	139.9	220.9	35.2	1,909.6
1997	0.0	13.8	40.9	121.3	252.9	174.4	356.3	401.2	267.4	137.7	54.6	1.9	1,822.4
1998	0.0	4.8	6.4	27.3	190.6	73.2	41.1	186.8	287.2	145.6	188.0	10.7	1,161.7
1999	0.0	16.0	19.4	142.2	282.8	337.4	400.9	294.9	261.6	395.7	217.5	60.4	2,428.8
2000	26.2	55.4	100.5	107.0	214.1	284.9	496.7	626.9	254.3	92.2	26.8	3.2	2,288.2
2001	10.4	1.4	91.9	26.0	193.7	383.0	331.5	691.6	203.2	173.6	3.0	30.3	2,139.6
2002	0.0	0.0	78.2	28.8	289.2	210.3	403.1	571.8	308.0	142.8	18.7	0.0	2,050.9
2003	0.0	15.5	33.3	89.2	180.3	218.2	400.9	364.4	412.4	274.8	28.5	0.0	2,017.5
2004	0.0	0.0	60.2	133.6	115.7	410.7	256.5	353.7	221.0	8.0	0.0	0.0	1,559.4
2005	0.0	0.0	15.2	88.3	126.8	137.0	349.2	747.9	274.6	62.4	94.5	0.0	1,895.9
2006	0.0	7.9	30.6	166.1	167.4	211.7	428.6	322.5	710.0	132.8	41.8	0.0	2,219.4
2007	0.4	11.8	52.6	109.6	105.5	189.5	253.2	313.3	146.2	301.4	164.8	0.0	1,648.3
2008	0.0	1.3	93.0	39.0	325.4	133.8	311.6	276.5	170.3	169.2	30.3	0.2	1,550.6
2009	0.0	7.9	30.6	166.1	167.4	211.7	428.6	322.5	710.0	132.8	41.8	0.0	2,219.4
2010	5.7	7.9	0.8	69.1	53.5	64.5	168.8	230.0	44.7	67.8	64.3	0.0	777.1
2011	0.1	6.0	34.2	112.1	309.7	316.0	395.8	469.4	407.7	297.2	33.8	0.0	2,382.0
2012	22.6	0.8	100.2	104.2	55.1	337.9	350.4	294.0	240.7	60.7	28.8	0.0	1,595.4
2013	0.0	0.0	66.4	97.6	164.5	342.7	325.2	339.9	579.3	170.5	175.7	22.6	2,284.4
2014	0.0	0.0	22.3	252.8	168.9	270.6	375.6	223.2	211.9	105.8	15.4	18.4	1,664.9
2015	0.0	9.1	18.6	42.2	107.7	187.4	263.7	239.6	168.1	153.5	24.0	0.0	1,213.9
2016	13.0	0.0	3.1	42.3	137.7	202.3	194.0	349.5	354.3	182.0	39.8	42.3	1,560.3
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	2.5	6.9	42.5	94.8	212.9	274.9	314.7	394.7	296.4	163.6	56.5	9.5	1,869.8
Max	26.2	55.4	148.0	252.8	495.7	634.4	496.7	747.9	710.0	396.1	220.9	90.8	2,428.8

Legend: ND=No Data, IC=Incomplete Data

Station: Dak Mot		ID: RKT03											Longitude: 107.7667	
Province: Kon Tum		Latitude: 14.75											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1984	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1985	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1986	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1988	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1989	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1990	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1991	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1993	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1995	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2002	0.0	0.0	87.9	22.1	405.8	379.4	459.0	462.0	325.1	187.6	26.8	0.0	2,355.7	
2003	0.0	9.4	45.3	110.1	219.8	238.8	338.7	369.7	493.6	236.7	27.3	0.0	2,089.4	
2004	0.0	0.0	126.8	109.2	138.7	413.1	258.0	549.0	278.9	2.2	9.4	0.0	1,885.3	
2005	0.0	0.0	41.0	128.2	168.9	202.6	444.0	800.2	321.5	37.0	59.3	0.4	2,203.1	
2006	0.0	5.7	108.8	70.0	329.6	148.8	516.8	523.3	461.7	158.3	7.2	2.5	2,332.7	
2007	0.0	14.6	87.7	135.1	157.8	131.5	281.0	363.5	99.7	355.3	158.1	0.0	1,784.3	
2008	0.0	0.9	87.0	39.4	316.5	126.6	275.6	282.2	195.1	188.3	68.3	0.0	1,579.9	
2009	0.0	15.7	31.2	157.9	178.2	321.5	458.8	375.9	620.5	174.4	22.7	0.0	2,356.8	
2010	0.0	1.4	1.7	64.7	48.2	114.9	184.9	428.6	204.4	249.6	85.2	5.0	1,388.6	
2011	0.0	2.0	6.5	61.0	449.9	371.1	311.4	423.7	433.7	183.8	34.1	0.0	2,277.2	
2012	48.2	0.2	187.8	189.7	126.3	370.4	310.4	327.4	222.2	62.5	26.8	0.0	1,871.9	
2013	2.7	0.0	11.9	92.9	87.6	341.8	276.5	348.6	593.2	206.7	159.6	25.0	2,146.5	
2014	0.0	0.0	0.0	223.3	147.1	368.9	453.4	281.4	316.7	168.9	5.6	27.5	1,992.8	
2015	0.0	34.5	10.6	53.4	85.1	205.8	341.5	312.1	197.5	173.5	16.2	0.0	1,430.2	
2016	28.4	0.0	4.2	90.0	157.9	293.3	216.7	339.0	416.5	237.2	37.2	36.8	1,857.2	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	5.3	5.6	55.9	103.1	201.2	268.6	341.8	412.4	345.4	174.8	49.6	6.5	1,970.1	
Max	48.2	34.5	187.8	223.3	449.9	413.1	516.8	800.2	620.5	355.3	159.6	36.8	2,356.8	

Legend: ND=No Data, IC=Incomplete Data

Station:	Kon Plong		ID:		RKT04		Longitude:		108.1333		Unit: mm		
Province:	Kon Tum						Latitude:		14.46667				
Month	1	2	3	4	5	6	7	8	9	10	11	12	13
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1978	8.2	0.0	46.2	80.0	115.4	156.2	270.6	364.0	365.1	69.8	13.5	0.0	1,489.0
1979	0.0	0.0	5.2	58.0	245.4	424.2	191.9	394.6	147.3	114.3	30.5	0.0	1,611.4
1980	0.0	0.0	0.0	60.9	254.4	255.7	134.3	256.3	210.5	408.9	139.2	0.0	1,720.2
1981	0.0	0.0	3.6	58.2	49.3	ND	28.7	361.1	20.1	56.2	0.0	0.0	IC
1982	0.0	0.0	22.0	43.8	9.0	206.5	305.0	157.1	125.5	9.0	14.0	0.0	891.9
1983	0.0	0.0	0.0	87.5	130.0	211.0	120.5	253.0	26.0	90.5	22.5	0.0	941.0
1984	0.0	0.0	37.0	162.0	81.6	191.6	805.7	678.8	445.6	74.0	131.5	0.0	2,607.8
1985	0.0	0.0	2.0	27.0	48.0	134.0	90.0	92.0	22.0	13.5	3.0	0.0	431.5
1986	0.0	5.0	0.0	28.0	55.5	89.0	99.5	80.0	114.0	83.0	6.0	20.5	580.5
1987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1988	0.0	0.0	0.0	107.6	286.7	236.2	ND	202.5	207.9	32.4	1.7	0.0	IC
1989	0.0	0.0	11.9	5.9	241.0	190.0	289.5	202.7	134.9	46.8	8.4	0.0	1,131.1
1990	0.0	1.9	24.0	16.4	149.7	202.9	12.1	86.8	56.6	221.3	68.8	0.0	840.5
1991	0.0	0.0	75.5	50.7	45.2	98.2	124.7	126.1	46.7	147.2	0.0	0.0	714.3
1992	0.0	0.0	10.3	67.4	154.8	199.2	107.2	263.6	67.4	149.7	0.0	0.0	1,019.6
1993	0.0	0.0	89.2	46.9	147.4	114.8	362.4	507.7	132.5	171.7	9.1	0.9	1,582.6
1994	0.0	0.0	80.8	189.4	148.0	166.2	278.6	212.2	275.5	43.1	0.0	1.5	1,395.3
1995	0.0	0.0	9.4	37.0	128.5	128.4	248.2	392.8	129.4	219.0	216.1	0.2	1,509.0
1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1997	0.0	0.0	36.3	104.8	78.7	56.1	364.4	ND	345.4	ND	ND	ND	IC
1998	ND	0.0	ND	7.6	96.0	55.3	96.5	124.2	363.5	241.8	301.2	7.0	IC
1999	0.0	0.1	16.3	110.0	262.4	201.8	127.1	106.9	355.3	178.6	153.4	111.4	1,623.3
2000	0.0	14.6	6.4	137.7	185.2	130.7	308.3	312.7	136.4	207.3	145.0	24.6	1,608.9
2001	0.0	0.0	65.0	82.1	367.0	175.8	214.2	506.5	113.1	191.8	28.3	14.5	1,758.3
2002	8.2	4.5	67.9	57.4	145.3	70.8	257.7	402.6	452.2	61.0	100.6	22.1	1,650.3
2003	7.4	6.9	2.3	71.8	236.7	86.7	235.7	217.1	370.2	577.4	224.4	43.4	2,080.0
2004	1.1	16.0	38.4	35.5	179.4	260.9	86.1	204.6	266.8	86.0	54.1	56.9	1,285.8
2005	0.0	0.0	6.0	11.5	32.7	88.8	297.4	329.2	488.4	360.4	243.0	82.6	1,940.0
2006	0.0	29.6	48.2	123.2	217.7	89.1	368.0	225.2	241.0	211.3	38.6	96.5	1,688.4
2007	0.0	0.0	62.0	93.3	222.2	122.6	190.9	324.0	78.2	448.5	698.0	30.2	2,269.9
2008	0.0	0.0	11.6	79.7	150.2	44.2	58.9	291.4	261.2	181.1	362.9	71.6	1,512.8
2009	29.3	0.0	45.3	52.0	239.0	96.1	140.6	49.1	642.0	130.8	377.7	5.5	1,807.4
2010	0.0	0.0	3.5	79.5	38.0	130.0	208.5	305.5	104.0	291.7	220.0	2.0	1,382.7
2011	0.0	0.0	0.0	41.0	237.5	240.0	133.5	161.8	280.5	491.9	185.0	66.5	1,837.7
2012	0.0	0.0	12.5	84.0	114.0	166.0	256.0	272.0	252.5	111.4	15.0	22.5	1,305.9
2013	0.0	0.0	74.3	104.0	129.5	305.1	268.6	210.5	633.1	333.0	282.0	0.0	2,340.1
2014	0.0	0.0	1.2	77.0	133.9	237.0	403.5	300.4	386.4	77.2	18.9	7.0	1,642.5
2015	0.0	8.7	36.1	23.4	112.6	200.2	233.0	281.8	181.2	72.0	33.6	0.0	1,182.6
2016	0.0	0.0	0.0	30.5	80.2	141.5	97.2	314.7	256.0	109.0	197.2	232.1	1,458.4
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	1.5	2.4	26.4	68.5	149.9	164.0	217.1	265.9	236.1	175.4	120.6	25.5	1,480.0
Max	29.3	29.6	89.2	189.4	367.0	424.2	805.7	678.8	642.0	577.4	698.0	232.1	2,607.8

Legend: ND=No Data, IC=Incomplete Data

Station: Dak Glei		ID: RKT05											Longitude 107.7478	
Province: Kon Tum		Latitude: 15.08055											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	0.0	3.0	21.6	22.0	96.7	258.5	134.3	114.4	422.8	19.0	27.7	0.0	1,120.0	
1983	0.0	0.0	8.5	57.2	97.7	106.0	109.1	269.6	207.1	402.1	62.6	0.0	1,319.9	
1984	0.0	0.0	52.5	188.7	174.5	246.5	728.1	328.4	325.6	ND	ND	ND	IC	
1985	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1986	0.0	0.0	3.0	47.5	250.7	156.3	188.2	191.8	130.1	266.3	3.1	50.0	1,287.0	
1987	0.0	0.0	24.7	59.9	134.1	148.6	204.9	404.2	213.5	36.8	61.1	0.0	1,287.8	
1988	0.0	0.0	0.0	2.3	134.4	100.6	116.6	11.1	52.7	647.9	23.4	0.0	1,089.0	
1989	0.0	0.0	34.2	56.7	345.4	151.5	190.0	164.2	109.9	127.4	0.0	0.0	1,179.3	
1990	0.0	0.0	68.7	37.2	231.5	199.3	146.2	255.4	142.1	327.7	168.2	0.0	1,576.3	
1991	0.0	0.0	121.9	125.1	86.8	245.2	443.7	379.3	209.6	225.0	0.0	0.0	1,836.6	
1992	0.0	10.4	168.0	100.7	187.1	624.6	219.9	488.4	423.0	185.0	0.0	5.3	2,412.4	
1993	0.0	0.0	122.3	75.2	213.6	101.7	236.0	232.0	126.7	79.3	15.9	0.0	1,202.7	
1994	0.0	0.0	43.6	127.1	134.3	108.4	313.1	260.2	493.3	92.6	7.5	18.8	1,598.9	
1995	0.0	4.6	34.0	97.6	346.1	196.9	295.7	272.3	130.0	331.1	159.3	0.0	1,867.6	
1996	0.0	16.7	16.3	119.4	201.5	191.1	210.2	239.8	456.6	215.1	381.6	16.1	2,064.4	
1997	21.5	32.5	61.9	169.2	220.9	91.1	295.8	222.7	509.5	66.6	0.0	0.0	1,691.7	
1998	0.0	0.0	47.3	15.2	391.1	55.5	102.5	142.6	232.1	169.1	349.7	2.5	1,507.6	
1999	1.3	0.0	115.6	75.6	173.8	197.2	225.8	241.2	206.1	181.8	169.9	16.9	1,605.2	
2000	0.0	18.7	25.5	167.7	207.1	135.6	248.6	400.0	183.5	222.4	86.9	8.8	1,704.8	
2001	4.6	0.0	56.0	47.6	191.8	215.0	294.2	349.5	132.4	186.8	81.8	7.0	1,566.7	
2002	0.0	0.0	79.9	135.1	241.9	181.9	192.0	382.1	496.6	132.6	9.8	53.0	1,904.9	
2003	0.0	28.2	20.8	112.2	213.4	98.1	287.5	300.8	434.3	391.2	84.8	0.0	1,971.3	
2004	6.7	0.5	79.7	58.6	320.3	383.9	191.4	352.8	347.4	30.2	35.2	0.0	1,806.7	
2005	0.0	0.0	91.7	52.8	96.4	136.9	329.3	357.8	307.6	130.2	108.7	1.1	1,612.5	
2006	0.0	12.8	34.2	95.2	235.9	72.6	282.9	383.6	492.1	305.7	46.3	23.1	1,984.4	
2007	0.6	2.4	170.0	86.3	222.0	127.7	210.0	347.1	98.5	443.6	286.1	0.0	1,994.3	
2008	3.0	2.7	151.7	107.3	246.4	92.5	194.0	307.8	370.0	345.6	63.1	0.9	1,885.0	
2009	0.0	20.6	94.0	95.1	179.2	96.2	304.8	154.2	965.1	170.3	97.1	0.0	2,176.6	
2010	6.1	9.5	26.0	278.7	131.8	122.9	235.4	437.1	186.2	152.2	135.2	0.8	1,721.9	
2011	0.0	0.0	14.5	69.3	249.4	344.4	170.1	194.6	653.7	224.6	118.0	0.5	2,039.1	
2012	0.0	19.9	35.8	108.4	157.2	201.2	284.8	284.3	224.6	131.2	28.7	0.0	1,476.1	
2013	0.0	0.0	135.9	180.3	139.6	253.3	305.6	144.9	573.5	286.3	257.3	36.5	2,313.2	
2014	0.0	0.0	42.1	121.1	150.0	271.4	338.2	230.6	256.4	52.7	1.3	20.1	1,483.9	
2015	0.1	13.4	28.2	63.2	119.2	181.6	122.9	216.1	386.7	231.2	94.1	0.2	1,456.9	
2016	3.9	0.0	1.9	115.7	207.0	422.0	154.0	401.2	327.7	180.6	125.3	26.0	1,965.3	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	1.4	5.8	59.8	96.2	197.9	191.7	244.3	278.3	318.4	211.8	93.6	8.7	1,688.2	
Max	21.5	32.5	170.0	278.7	391.1	624.6	728.1	488.4	965.1	647.9	381.6	53.0	2,412.4	

Legend: ND=No Data, IC=Incomplete Data

Station: Sa Thay		ID: RKT06											Longitude 107.7838	
Province: Kon Tum		Latitude: 14.41523											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	0.0	0.0	0.0	84.2	482.4	386.6	265.6	399.9	592.3	229.4	41.0	0.0	2,481.4	
1981	0.0	10.7	0.0	90.8	250.7	572.0	339.0	357.6	214.0	330.8	36.1	0.0	2,201.7	
1982	0.0	0.0	30.2	131.2	253.0	560.4	223.4	235.3	215.5	111.7	51.0	0.0	1,811.7	
1983	0.0	0.0	0.0	17.0	139.3	213.3	300.8	352.1	80.0	366.1	15.0	0.0	1,483.6	
1984	0.0	0.0	0.0	250.0	210.5	478.7	92.4	314.5	0.0	45.5	157.2	0.0	1,548.8	
1985	0.0	0.0	13.0	257.6	65.9	417.6	165.3	334.7	278.9	103.4	0.0	0.0	1,636.4	
1986	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1988	0.0	0.0	0.0	116.9	217.2	313.0	238.6	224.0	388.3	473.5	0.0	0.0	1,971.5	
1989	0.0	0.0	19.1	32.1	319.8	177.2	385.8	396.3	298.8	0.0	0.0	0.0	1,629.1	
1990	0.0	0.0	30.0	19.6	196.9	264.3	281.7	351.5	185.2	239.2	64.5	0.0	1,632.9	
1991	0.0	0.0	80.0	93.0	66.5	361.1	335.5	355.2	391.6	196.6	0.0	0.0	1,879.5	
1992	0.0	0.0	18.0	79.0	116.0	319.5	164.2	500.0	175.0	97.0	0.0	0.0	1,468.7	
1993	0.0	6.0	7.9	175.5	110.0	128.8	345.7	266.0	290.5	177.0	16.5	0.0	1,523.9	
1994	0.0	0.0	47.5	122.2	177.0	273.6	591.2	275.8	441.1	81.5	0.0	0.5	2,010.4	
1995	0.0	0.0	15.0	0.0	197.0	310.5	462.6	404.0	668.0	41.9	127.5	21.0	2,247.5	
1996	0.0	0.0	15.0	0.0	197.0	310.5	462.6	404.0	668.0	41.9	127.5	21.0	2,247.5	
1997	0.0	15.5	63.0	51.8	254.4	83.0	477.3	373.8	164.1	93.0	9.8	0.0	1,585.7	
1998	0.0	0.0	5.0	0.0	99.2	41.0	112.6	230.0	346.5	228.0	249.5	0.0	1,311.8	
1999	0.0	0.0	50.5	252.5	372.5	318.1	218.5	213.2	254.4	173.9	135.8	10.9	2,000.3	
2000	20.0	20.6	10.1	116.5	186.8	392.4	634.3	330.6	189.8	95.3	0.0	0.0	1,996.4	
2001	0.0	0.0	98.6	134.7	279.7	463.0	445.5	579.3	209.6	206.2	0.0	11.2	2,427.8	
2002	0.0	0.0	71.5	154.3	196.9	366.7	396.7	329.3	325.5	105.1	28.3	5.0	1,979.3	
2003	0.0	14.2	71.6	107.5	176.4	245.2	451.6	243.3	387.0	270.2	43.6	0.0	2,010.6	
2004	0.0	0.0	27.7	127.0	333.7	306.4	276.6	568.6	318.8	58.3	16.3	0.0	2,033.4	
2005	0.0	0.0	1.5	39.7	83.9	258.0	360.0	467.4	348.5	67.1	44.7	0.2	1,671.0	
2006	0.0	3.9	30.4	56.5	328.5	91.3	582.8	595.9	466.0	169.5	2.5	1.4	2,328.7	
2007	0.0	0.0	83.1	61.6	301.2	184.0	258.6	398.4	202.1	207.7	94.1	0.0	1,790.8	
2008	0.0	13.5	76.8	24.1	236.5	114.7	178.3	300.1	265.7	118.0	42.3	0.0	1,370.0	
2009	0.0	29.7	99.8	210.5	213.7	131.8	263.6	214.8	376.6	152.1	17.0	0.0	1,709.6	
2010	0.0	6.0	28.0	76.7	62.8	107.7	149.1	263.5	98.1	149.5	23.0	0.0	964.4	
2011	0.0	0.0	0.0	46.4	333.9	292.6	474.9	253.1	386.3	166.6	28.5	0.0	1,982.3	
2012	0.0	1.2	40.9	68.0	238.2	470.1	322.3	441.5	345.6	40.6	46.0	3.1	2,017.5	
2013	0.0	0.0	25.7	119.2	108.8	282.6	296.0	245.8	428.2	171.2	112.8	0.0	1,790.3	
2014	0.0	0.0	0.0	132.7	87.9	278.8	312.2	241.8	209.8	49.1	3.6	10.6	1,326.5	
2015	0.0	0.0	29.9	24.0	92.6	148.2	226.3	155.1	222.4	207.3	22.2	0.0	1,128.0	
2016	0.0	0.0	0.0	33.4	107.9	171.3	157.8	211.1	264.8	153.9	26.4	22.3	1,148.9	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	0.6	3.5	31.1	94.5	202.7	281.0	321.4	337.9	305.6	154.8	45.2	3.1	1,781.4	
Max	20.0	29.7	99.8	257.6	482.4	572.0	634.3	595.9	668.0	473.5	249.5	22.3	2,481.4	

Legend: ND=No Data, IC=Incomplete Data

Station:	An Khe		ID:		RGL01		Longitude:		108.6554		Latitude:		13.94707		Unit: mm
Province:	Gia lai														
Month	1	2	3	4	5	6	7	8	9	10	11	12	13		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1977	7.8	0.0	0.8	68.1	80.7	12.1	109.0	61.9	572.7	137.8	376.0	8.8	1,435.7		
1978	36.9	13.8	4.4	83.0	154.1	49.5	182.8	178.9	217.2	208.5	230.6	81.4	1,441.1		
1979	9.0	2.8	6.1	54.5	56.7	296.6	120.4	96.0	264.5	390.0	180.4	20.2	1,497.2		
1980	7.9	2.1	13.8	46.4	276.9	119.1	217.5	168.9	216.4	467.3	509.8	30.3	2,076.4		
1981	21.0	6.3	1.0	85.7	93.5	97.1	39.4	43.7	163.8	505.2	430.0	73.6	1,560.3		
1982	22.4	0.0	1.6	58.0	33.4	148.5	37.2	58.9	110.3	117.8	77.7	19.1	684.9		
1983	24.0	0.0	18.3	43.5	115.3	156.9	95.1	101.3	99.0	478.0	145.8	92.3	1,369.5		
1984	8.2	5.4	0.0	184.7	257.3	155.5	59.3	145.4	149.8	246.0	430.9	84.7	1,727.2		
1985	10.1	0.7	52.1	30.7	152.0	84.7	110.1	57.3	183.5	272.3	337.1	88.0	1,378.6		
1986	6.0	7.1	21.4	0.0	149.2	61.0	225.8	277.9	176.4	346.8	126.7	439.2	1,837.5		
1987	7.5	16.7	9.9	58.5	84.6	67.6	139.7	83.4	160.0	86.6	623.0	2.6	1,340.1		
1988	19.5	35.3	0.0	61.4	20.3	79.6	126.0	53.9	283.6	531.4	220.3	33.1	1,464.4		
1989	39.2	24.7	45.3	75.9	251.2	52.3	161.0	235.8	134.2	132.9	102.3	21.7	1,276.5		
1990	7.1	1.6	5.7	33.6	192.6	187.1	81.8	214.8	112.2	665.7	334.3	25.1	1,861.6		
1991	7.5	22.8	40.9	70.6	39.3	45.8	70.5	102.7	308.1	321.0	170.0	62.3	1,261.5		
1992	19.9	1.1	0.8	17.7	149.7	170.5	195.3	108.4	124.2	655.7	89.8	55.6	1,588.7		
1993	0.6	0.2	31.1	16.2	105.6	180.9	134.9	170.6	93.2	452.4	207.6	209.3	1,602.6		
1994	5.7	12.8	39.1	42.7	99.5	79.7	54.6	113.8	283.2	294.5	53.0	128.9	1,207.5		
1995	7.8	24.0	5.2	6.2	70.2	62.2	189.1	192.7	188.1	465.5	181.7	81.6	1,474.3		
1996	3.4	8.4	0.0	34.4	115.5	46.6	112.9	43.2	186.7	333.9	671.4	285.0	1,841.4		
1997	7.8	19.4	31.3	127.2	202.3	17.7	14.8	110.9	214.1	169.5	145.4	0.0	1,060.4		
1998	14.7	28.6	8.6	75.8	108.1	113.9	59.3	126.7	205.3	346.3	866.1	280.1	2,233.5		
1999	85.3	42.0	19.3	50.6	226.1	26.0	63.7	133.4	121.7	363.5	336.0	421.5	1,889.1		
2000	53.9	0.0	10.7	84.7	145.6	54.9	101.9	179.8	112.7	405.6	206.7	132.6	1,489.1		
2001	14.5	5.1	79.0	0.4	251.1	46.5	38.0	203.5	163.0	249.0	101.5	97.9	1,249.5		
2002	13.9	5.2	4.2	0.4	69.7	119.7	48.0	119.3	269.6	152.4	177.4	73.7	1,053.5		
2003	8.4	10.1	10.3	6.7	89.0	73.8	93.8	101.4	78.0	412.9	230.2	36.9	1,151.5		
2004	11.9	0.0	2.6	28.1	91.9	200.8	159.3	44.6	96.2	133.9	146.1	43.5	958.9		
2005	2.3	2.7	18.1	20.4	129.8	71.3	84.0	83.6	398.7	433.5	239.4	228.8	1,712.6		
2006	24.6	34.4	37.5	94.4	168.0	83.5	193.6	72.5	249.3	140.7	68.2	193.5	1,360.2		
2007	44.2	0.1	27.5	32.4	164.6	116.1	84.9	207.0	193.9	590.2	667.7	32.9	2,161.5		
2008	31.2	8.7	3.6	19.4	173.1	39.7	217.3	178.6	151.6	384.6	641.0	128.6	1,977.4		
2009	86.1	12.5	30.9	220.0	203.2	22.8	123.8	157.0	390.7	252.6	352.5	26.1	1,878.2		
2010	91.5	0.7	8.2	65.2	61.8	202.2	296.9	198.3	54.7	309.9	538.3	11.1	1,838.8		
2011	29.2	0.9	24.8	29.2	234.4	148.8	160.2	187.6	237.9	370.3	316.5	86.4	1,826.2		
2012	30.6	19.2	63.6	73.1	202.9	238.3	114.9	176.3	412.9	305.2	99.6	54.4	1,791.0		
2013	15.7	14.4	63.6	207.6	174.3	227.8	152.8	133.9	429.3	346.0	607.1	1.0	2,373.5		
2014	7.7	0.0	5.7	129.2	93.9	54.7	231.8	219.1	237.8	276.8	234.4	88.9	1,580.0		
2015	26.7	3.5	39.9	3.3	124.1	184.4	45.8	203.4	217.4	61.4	329.4	44.4	1,283.7		
2016	2.0	7.2	0.0	68.2	195.3	253.2	207.5	171.9	281.6	454.9	676.5	1,124.0	3,442.3		
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Average	21.8	10.0	19.7	60.2	140.2	111.2	123.9	138.0	213.6	331.7	312.0	123.7	1,605.9		
Max	91.5	42.0	79.0	220.0	276.9	296.6	296.9	277.9	572.7	665.7	866.1	1,124.0	3,442.3		

Legend: ND=No Data, IC=Incomplete Data

Station:	AyunPa		ID:		RGL02		Longitude:		108.45		Latitude:		13.38333		Unit: mm
Province:	Gia lai														
Month	1	2	3	4	5	6	7	8	9	10	11	12	Annual		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1979	0.8	0.0	0.2	48.7	115.9	324.6	192.2	174.0	141.6	206.3	102.2	5.6	1,312.1		
1980	1.8	0.0	34.4	15.3	376.8	154.0	83.8	112.2	249.1	149.0	296.0	1.0	1,473.4		
1981	0.3	0.1	0.1	130.0	106.9	247.9	120.9	132.5	164.8	404.5	163.1	9.2	1,480.3		
1982	1.9	0.0	0.8	105.2	94.9	178.6	148.6	46.4	183.8	140.4	40.9	2.0	943.5		
1983	0.2	23.3	0.0	68.0	245.0	276.9	44.8	167.6	335.9	521.5	78.2	3.6	1,765.0		
1984	5.1	0.6	1.1	47.5	205.7	213.0	124.5	213.0	279.2	202.1	203.8	5.5	1,501.1		
1985	3.0	17.5	0.7	0.0	145.7	68.5	148.5	115.3	294.5	86.8	209.1	3.1	1,092.7		
1986	0.0	4.7	11.1	25.7	192.6	40.9	120.1	174.4	244.7	210.4	59.5	190.8	1,274.9		
1987	0.0	0.2	21.1	8.7	104.3	154.7	63.4	167.4	219.3	60.5	328.0	0.6	1,128.2		
1988	0.4	1.3	0.0	63.9	74.9	216.6	126.8	107.8	306.6	528.8	146.0	2.5	1,575.6		
1989	1.3	1.4	68.1	42.0	215.5	47.5	217.0	197.6	137.5	151.2	26.3	3.1	1,108.5		
1990	0.0	5.4	0.1	39.7	167.0	246.5	56.9	193.3	121.8	429.5	239.7	4.8	1,504.7		
1991	0.1	1.5	29.2	101.7	113.0	167.5	174.0	184.4	319.7	186.3	0.0	0.0	1,277.4		
1992	1.1	0.0	0.1	48.3	251.7	279.1	173.8	183.1	180.4	381.0	12.6	4.2	1,515.4		
1993	0.0	0.0	68.0	41.3	70.8	94.4	58.2	119.1	365.5	397.6	269.5	48.5	1,532.9		
1994	0.5	0.0	13.2	62.4	165.9	74.9	325.0	107.2	206.3	0.0	0.0	42.6	998.0		
1995	2.6	1.5	10.4	3.6	94.0	175.9	80.3	69.4	225.4	363.2	70.3	8.1	1,104.7		
1996	0.2	4.1	0.0	110.5	274.1	66.2	172.9	111.8	395.4	276.4	295.6	50.5	1,757.7		
1997	0.1	2.4	55.1	156.9	191.7	23.9	111.2	284.2	252.4	127.4	60.0	5.3	1,270.6		
1998	0.0	0.0	0.0	32.5	95.1	62.3	85.2	176.6	80.2	216.4	304.0	76.1	1,128.4		
1999	7.1	1.4	3.6	149.3	254.9	191.4	136.0	123.1	113.9	277.8	277.8	184.2	1,720.5		
2000	0.6	13.3	11.6	69.7	185.1	130.7	136.0	120.1	128.9	332.6	154.0	16.2	1,298.8		
2001	0.4	0.2	64.0	0.2	154.0	59.9	43.2	174.3	115.0	145.4	115.6	18.0	890.2		
2002	0.0	0.3	15.4	14.9	111.0	58.0	73.3	229.0	234.8	87.4	148.2	14.0	986.3		
2003	0.5	0.0	0.3	1.1	172.9	94.2	97.7	353.8	353.2	212.9	156.2	1.9	1,444.7		
2004	0.7	0.0	0.0	0.0	119.5	265.4	181.7	98.7	235.3	26.3	14.9	2.9	945.4		
2005	0.0	0.0	0.0	46.7	98.7	82.6	112.7	208.4	387.4	155.5	84.7	41.8	1,218.5		
2006	0.0	0.0	14.8	10.6	139.4	28.1	267.6	171.6	325.4	85.6	10.6	16.2	1,069.9		
2007	0.0	0.0	6.1	14.8	159.4	81.6	22.2	143.8	194.1	297.9	366.7	0.8	1,287.4		
2008	6.7	1.1	2.8	40.9	205.2	16.5	143.2	160.6	259.8	132.7	222.9	26.3	1,218.7		
2009	4.9	1.2	15.1	122.1	154.7	49.9	97.6	121.5	303.4	165.6	174.8	0.1	1,210.9		
2010	24.7	20.6	0.3	111.7	114.2	100.7	179.7	129.4	99.3	239.0	303.1	6.2	1,328.9		
2011	0.1	0.0	16.1	69.1	302.1	134.7	166.1	222.2	305.4	173.2	56.7	20.1	1,465.8		
2012	13.7	0.7	37.5	108.7	133.5	61.7	93.8	136.0	220.6	169.0	16.8	4.4	996.4		
2013	0.3	0.2	20.6	123.6	153.3	155.0	121.2	131.4	296.4	206.7	179.2	0.0	1,387.9		
2014	0.0	0.0	0.0	45.3	145.5	102.1	195.9	252.9	44.7	118.6	96.7	8.2	1,009.9		
2015	0.6	0.0	0.0	0.7	129.1	135.6	87.3	74.9	153.3	55.6	54.9	4.9	696.9		
2016	0.2	0.2	0.0	1.3	269.5	126.1	48.8	105.5	115.8	167.1	254.7	196.9	1,286.1		
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Average	2.1	2.7	13.7	54.8	165.9	131.3	127.2	157.8	226.1	212.8	147.2	27.1	1,268.6		
Max.	24.7	23.3	68.1	156.9	376.8	324.6	325.0	353.8	395.4	528.8	366.7	196.9	1,765.0		

Legend: ND=No Data, IC=Incomplete Data

Station: Pleiku		ID: RGL03											Longitude: 108.0167	
Province: Gia Lai		Latitude: 13.96667											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	34.7	171.5	154.1	265.1	308.0	550.5	47.7	37.5	0.0	1,569.1	
1978	27.3	0.0	35.6	94.0	235.8	353.6	361.3	959.6	335.6	77.3	38.9	0.7	2,519.7	
1979	0.1	0.0	4.0	69.7	385.5	657.3	434.8	717.6	383.5	98.9	33.6	0.6	2,785.7	
1980	18.1	0.0	6.2	4.4	463.0	390.3	363.7	342.3	527.0	233.5	78.7	0.1	2,427.3	
1981	0.0	0.0	0.0	80.6	230.9	708.1	241.4	520.5	305.4	352.2	127.0	0.3	2,566.4	
1982	0.0	27.5	6.7	128.6	205.2	818.7	465.6	380.0	413.6	64.0	30.1	0.0	2,540.0	
1983	0.0	0.0	0.0	17.5	92.8	373.1	178.5	370.9	309.6	584.4	12.7	0.0	1,939.5	
1984	0.0	0.0	69.3	336.1	125.7	480.2	296.0	1,221.9	296.4	188.4	160.2	0.4	3,174.6	
1985	0.0	0.0	32.3	148.7	72.1	664.6	304.3	521.7	278.0	83.1	67.1	1.2	2,173.1	
1986	0.0	7.5	43.5	80.8	572.8	157.1	285.1	570.3	493.8	159.9	42.2	128.9	2,541.9	
1987	0.0	26.5	42.1	3.7	122.6	249.0	357.4	474.5	227.5	76.0	150.5	0.0	1,729.8	
1988	0.0	3.8	0.9	53.3	203.2	373.4	189.2	238.0	198.6	518.7	18.0	1.5	1,798.6	
1989	0.0	0.0	52.3	ND	364.2	245.9	577.8	371.3	328.1	163.8	9.3	0.0	IC	
1990	0.0	19.6	58.7	30.1	370.0	600.1	263.4	441.2	386.2	415.8	162.2	0.0	2,747.3	
1991	0.0	1.4	48.4	61.7	114.4	467.8	449.5	606.9	495.3	306.4	37.2	6.8	2,595.8	
1992	0.8	4.4	19.7	63.8	195.9	288.1	293.2	533.9	361.9	217.7	0.4	0.4	1,980.2	
1993	0.1	0.2	33.9	20.5	154.4	137.5	271.1	519.2	342.3	304.9	109.0	2.0	1,895.1	
1994	0.0	10.8	6.3	105.6	172.9	263.7	899.7	220.6	550.8	113.2	0.6	42.5	2,386.7	
1995	34.7	0.0	1.9	32.9	109.0	154.1	303.7	359.9	387.6	179.8	54.5	0.4	1,618.5	
1996	0.0	0.1	53.1	131.4	333.6	245.0	633.6	431.8	770.8	114.1	186.7	35.2	2,935.4	
1997	0.0	31.8	0.7	128.0	237.9	136.6	447.6	534.5	348.9	182.6	34.9	9.7	2,093.2	
1998	0.1	0.0	0.0	19.5	130.9	66.7	61.1	298.0	356.6	220.5	237.4	35.5	1,426.3	
1999	0.4	10.5	104.1	154.5	251.1	307.1	430.6	397.6	367.5	215.3	104.1	23.4	2,366.2	
2000	19.2	0.7	8.8	125.5	310.8	422.3	570.2	414.9	286.0	270.7	40.7	0.5	2,470.3	
2001	0.0	1.7	128.6	129.7	282.6	352.4	297.2	607.7	204.4	122.9	34.1	7.6	2,168.9	
2002	0.0	0.0	0.9	19.1	270.0	442.5	515.3	367.5	445.0	84.1	13.2	1.0	2,158.6	
2003	0.0	37.6	4.2	91.9	316.9	203.8	317.2	535.0	453.8	177.9	61.8	0.0	2,200.1	
2004	0.0	0.0	39.7	52.2	247.9	693.5	289.9	349.0	207.5	5.8	8.0	1.7	1,895.2	
2005	0.0	0.4	42.3	138.8	46.1	182.4	479.2	610.3	313.6	186.6	45.1	3.8	2,048.6	
2006	0.1	0.0	46.3	64.6	151.6	202.2	651.2	525.9	337.5	201.9	2.0	3.9	2,187.2	
2007	0.0	0.0	31.3	48.5	305.7	209.1	443.7	522.2	258.1	327.2	167.7	0.4	2,313.9	
2008	2.6	0.6	2.5	119.2	332.9	68.9	187.1	413.9	288.9	140.1	83.4	4.3	1,644.4	
2009	0.3	5.0	9.6	144.4	266.0	128.5	652.4	566.5	645.3	217.9	89.3	0.2	2,725.4	
2010	4.1	0.0	52.8	55.4	122.4	113.0	256.8	383.4	93.3	293.2	96.6	0.1	1,471.1	
2011	0.0	6.6	17.6	33.6	412.8	433.7	372.9	381.3	434.0	427.2	47.5	0.0	2,567.2	
2012	6.2	15.5	5.7	91.1	173.0	526.1	454.2	392.4	397.9	126.3	19.1	0.0	2,207.5	
2013	0.2	0.1	3.5	122.5	118.4	239.2	328.8	453.7	533.7	325.4	116.6	1.7	2,243.8	
2014	0.0	0.0	19.2	311.2	255.6	333.9	386.6	521.5	329.0	255.3	34.0	11.4	2,457.7	
2015	0.0	0.1	0.4	12.5	140.1	371.4	417.8	229.4	277.4	148.0	36.9	0.1	1,634.1	
2016	8.5	0.0	3.6	48.0	161.8	195.1	141.6	448.7	524.0	229.1	54.0	75.6	1,890.0	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	3.0	5.7	26.8	91.6	230.7	332.7	379.1	469.7	376.0	210.4	65.5	9.8	2,200.9	
Max	34.7	37.6	128.6	336.1	572.8	818.7	899.7	1,221.9	770.8	584.4	237.4	128.9	3,174.6	

Legend: ND=No Data, IC=Incomplete Data

Station: YaLy		ID: RGL04											Longitude: 107.75	
Province: Gia Lai		Latitude: 14.2											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1984	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1985	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1986	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1988	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1989	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1990	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1991	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1993	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1995	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2002	0.0	0.0	36.1	8.6	134.1	119.1	315.9	209.9	203.2	111.6	10.1	0.0	1,148.6	
2003	0.0	0.0	22.1	22.4	98.9	93.6	286.2	501.9	508.1	306.5	33.7	0.0	1,873.4	
2004	0.0	0.6	33.3	90.4	160.7	470.9	349.1	444.9	182.4	11.6	0.9	0.0	1,744.8	
2005	0.0	0.0	6.8	102.7	124.7	223.7	528.9	482.7	377.6	84.4	30.7	0.8	1,963.0	
2006	0.0	44.1	24.4	97.3	404.6	127.1	506.0	510.7	313.4	155.9	15.1	7.8	2,206.4	
2007	0.0	0.0	124.5	103.0	273.5	116.2	259.7	388.3	244.1	231.4	164.3	0.0	1,905.0	
2008	0.9	0.6	34.9	10.3	454.5	71.2	125.1	362.3	340.0	144.1	34.2	3.8	1,581.9	
2009	0.0	23.7	82.5	160.1	162.0	111.1	324.9	383.2	402.3	133.3	44.0	0.0	1,827.1	
2010	1.2	0.3	0.2	117.4	154.5	194.6	215.7	242.7	84.7	189.9	95.2	0.0	1,296.4	
2011	0.0	1.1	22.3	107.7	503.4	520.2	419.7	249.1	402.1	473.4	27.2	0.7	2,726.9	
2012	7.3	24.8	14.0	175.6	210.5	359.9	288.0	368.3	344.8	94.0	38.8	0.0	1,926.0	
2013	0.0	0.0	31.8	96.5	150.2	321.5	381.5	253.3	501.4	260.3	133.5	8.4	2,138.4	
2014	0.0	0.0	4.0	267.4	251.1	234.5	371.0	370.6	287.3	97.1	24.1	12.0	1,919.1	
2015	0.0	0.2	8.0	100.1	94.6	292.8	255.3	242.8	163.3	142.2	32.5	0.0	1,331.8	
2016	0.0	0.0	0.0	41.1	142.4	291.4	241.2	347.0	364.5	176.4	71.5	40.0	1,715.5	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	0.6	6.4	29.7	100.0	221.3	236.5	324.5	357.2	314.6	174.1	50.4	4.9	1,820.3	
Max	7.3	44.1	124.5	267.4	503.4	520.2	528.9	510.7	508.1	473.4	164.3	40.0	2,726.9	

Legend: ND=No Data, IC=Incomplete Data

Station: Po Mo Re		ID: RGL05											Longitude: 108.35	
Province: Gia Lai		Latitude: 14.0333											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	0.0	0.0	0.0	117.2	123.3	160.4	290.3	410.2	318.9	118.3	36.3	0.0	1,574.9	
1979	0.0	0.0	47.6	40.4	186.6	481.1	297.5	426.2	276.3	144.8	54.5	0.0	1,955.0	
1980	0.0	0.6	12.2	43.2	395.4	312.2	216.0	297.3	267.3	276.6	224.4	0.0	2,045.2	
1981	0.5	0.9	0.0	125.2	212.6	431.9	208.1	245.8	93.0	416.1	199.2	2.3	1,935.6	
1982	0.0	0.0	32.8	107.5	75.1	611.1	403.1	399.5	543.4	93.8	38.9	0.0	2,305.2	
1983	1.2	0.0	0.0	27.7	140.2	467.1	183.8	500.3	408.3	589.5	86.9	0.0	2,405.0	
1984	0.0	0.0	76.5	193.7	171.8	491.3	128.4	664.9	190.4	215.6	345.1	0.4	2,478.1	
1985	0.0	0.0	47.8	102.0	102.6	355.2	161.8	406.6	288.3	200.5	127.0	9.3	1,801.1	
1986	0.0	0.0	14.3	23.9	301.9	166.0	164.4	385.3	234.7	212.8	30.4	199.5	1,733.2	
1987	0.0	16.4	70.3	14.6	57.7	200.9	196.5	432.1	275.9	26.2	249.8	0.0	1,540.4	
1988	0.0	12.0	0.1	85.6	232.7	404.9	229.0	114.9	231.6	572.5	66.8	0.0	1,950.1	
1989	0.0	0.0	30.9	134.0	275.5	223.2	357.6	395.9	285.2	160.9	23.0	0.0	1,886.2	
1990	0.0	0.0	33.1	82.9	306.6	368.6	168.7	256.1	175.8	530.2	164.9	0.0	2,086.9	
1991	0.0	8.3	98.0	28.6	60.5	147.2	255.5	396.9	358.6	237.3	74.0	0.0	1,664.9	
1992	6.8	0.0	12.5	39.5	186.1	220.9	184.3	460.1	154.7	391.8	0.8	1.2	1,658.7	
1993	0.0	0.0	137.7	24.0	163.5	90.1	205.6	262.7	290.5	316.6	153.6	18.9	1,663.2	
1994	0.0	0.0	1.9	69.6	205.8	100.0	377.6	195.0	427.8	129.6	0.3	32.9	1,540.5	
1995	0.6	1.5	22.5	0.3	131.2	180.9	243.2	320.1	275.0	316.5	146.5	3.8	1,642.1	
1996	0.0	0.0	1.4	171.7	370.8	233.3	242.8	260.4	483.4	174.0	257.6	87.2	2,282.6	
1997	0.0	0.0	3.4	159.2	357.5	64.5	311.7	336.8	281.1	103.9	52.3	8.0	1,678.4	
1998	2.6	1.4	0.0	49.6	140.6	85.3	101.6	182.9	308.7	279.8	501.8	48.9	1,703.2	
1999	0.3	0.0	62.6	99.4	189.9	249.3	252.9	419.2	270.8	190.1	281.0	132.0	2,147.5	
2000	0.5	0.6	27.1	118.7	423.2	186.3	288.4	269.3	224.2	379.8	58.0	1.3	1,977.4	
2001	0.0	0.3	34.7	40.8	179.2	291.9	85.3	499.6	129.6	143.2	63.9	11.8	1,480.3	
2002	0.0	0.0	13.2	43.1	304.0	174.2	289.3	231.4	0.0	111.1	21.9	15.2	1,203.4	
2003	0.0	0.0	0.0	98.8	323.8	176.7	254.1	169.8	304.5	337.6	78.7	1.5	1,745.5	
2004	0.1	0.0	0.0	64.0	184.4	422.2	185.9	202.0	248.8	21.2	33.4	7.6	1,369.6	
2005	0.0	0.4	10.6	84.8	231.2	210.1	397.4	340.8	294.6	148.3	109.3	14.8	1,842.3	
2006	4.5	0.0	34.6	52.2	315.8	104.1	340.5	454.5	479.6	195.2	32.6	26.4	2,040.0	
2007	2.6	0.0	52.2	32.2	200.8	141.4	137.1	468.9	239.7	293.7	260.6	0.8	1,830.0	
2008	2.6	3.2	52.0	7.2	352.8	30.4	187.8	353.0	137.3	216.6	250.4	14.7	1,608.0	
2009	6.0	0.0	11.2	111.5	157.4	72.8	295.0	306.6	623.4	179.0	154.0	1.8	1,918.7	
2010	19.0	0.1	2.8	61.6	85.9	105.9	166.8	313.6	109.2	206.5	193.7	7.2	1,272.3	
2011	0.0	0.0	1.5	87.4	215.6	347.2	359.4	236.7	445.6	390.5	55.8	0.7	2,140.4	
2012	3.1	1.2	94.9	179.6	142.4	265.9	284.9	235.7	308.4	119.1	14.8	0.0	1,650.0	
2013	0.0	0.0	147.7	201.3	237.6	230.3	347.0	225.4	499.1	287.2	241.6	0.0	2,417.2	
2014	0.0	0.0	28.9	98.2	82.1	213.9	244.0	249.8	193.8	138.9	75.0	3.2	1,327.8	
2015	0.6	2.0	82.7	88.4	163.0	266.3	219.1	192.8	169.3	217.2	82.4	1.6	1,485.4	
2016	0.4	0.0	0.0	104.8	200.4	238.5	122.4	191.7	339.0	267.2	117.4	218.7	1,800.5	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	1.3	1.3	33.3	82.4	209.9	244.2	240.6	325.9	286.8	239.7	127.1	22.4	1,815.0	
Max	19.0	16.4	147.7	201.3	423.2	611.1	403.1	664.9	623.4	589.5	501.8	218.7	2,478.1	

Legend: ND=No Data, IC=Incomplete Data

Station: Chu Prong		ID: RGL06											Longitude: 107.85	
Province: Gia Lai		Latitude: 13.65											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	2.8	0.0	41.2	110.0	316.3	312.9	448.4	857.8	407.3	176.7	32.6	0.0	2,706.0	
1979	0.0	0.0	18.5	44.3	318.0	951.7	887.4	1,081.7	282.2	105.4	0.0	0.0	3,689.2	
1980	0.0	0.0	0.0	44.2	520.4	301.0	264.7	429.3	448.1	ND	ND	ND	IC	
1981	0.0	0.0	0.0	112.8	202.0	697.4	361.9	741.7	269.9	211.3	66.6	0.0	2,663.6	
1982	0.0	0.0	0.0	112.8	202.0	697.4	361.9	741.7	269.9	211.3	66.6	0.0	2,663.6	
1983	0.0	0.0	0.0	0.0	214.1	527.8	256.8	536.6	179.4	483.0	2.4	0.0	2,200.1	
1984	0.0	0.0	0.0	187.3	148.7	738.1	411.5	1,375.1	473.0	235.4	141.8	0.0	3,710.9	
1985	0.0	0.0	5.5	145.3	151.4	677.7	281.1	435.7	206.5	165.3	35.4	7.6	2,111.5	
1986	0.0	22.5	0.0	46.9	435.1	224.0	297.9	526.8	367.4	107.2	58.3	36.6	2,122.7	
1987	0.0	0.0	9.7	37.4	88.5	416.1	490.3	528.6	176.3	6.4	191.0	15.3	1,959.6	
1988	0.0	2.3	0.0	36.4	385.6	438.5	551.4	189.8	403.3	967.6	67.7	20.9	3,063.5	
1989	0.0	0.0	114.4	162.9	573.2	358.3	824.4	815.6	411.3	123.0	8.8	0.0	3,391.9	
1990	0.0	0.0	12.2	66.8	236.2	698.6	392.3	500.5	532.7	292.2	285.9	0.0	3,017.4	
1991	0.0	0.0	26.4	248.1	180.7	299.7	309.1	487.3	510.6	24.4	0.0	37.7	2,124.0	
1992	0.0	26.6	7.6	56.4	200.9	598.3	242.8	528.0	211.6	371.8	0.0	0.0	2,244.0	
1993	0.0	0.0	31.1	19.2	44.0	235.4	396.2	253.7	219.2	189.1	154.9	0.0	1,542.8	
1994	0.0	9.6	15.5	97.2	206.2	353.2	443.2	239.3	386.5	17.4	2.1	79.9	1,850.1	
1995	0.0	0.0	15.1	8.8	145.4	187.6	250.6	306.6	345.5	239.8	11.1	9.6	1,520.1	
1996	0.0	0.0	38.2	84.5	289.9	201.1	637.2	393.5	635.6	157.6	211.5	0.0	2,649.1	
1997	0.0	35.2	0.0	87.5	203.3	107.7	545.5	589.5	232.1	30.4	8.8	0.0	1,840.0	
1998	0.0	0.0	0.0	27.0	127.2	132.5	67.2	188.5	183.7	75.0	142.6	52.2	995.9	
1999	0.0	0.0	40.5	320.6	158.3	209.9	406.5	415.5	234.7	133.2	70.2	26.7	2,016.1	
2000	0.0	0.0	3.7	81.9	209.6	399.3	469.9	437.0	267.9	453.0	22.9	3.7	2,348.9	
2001	0.0	0.0	86.9	27.2	263.8	606.7	236.7	488.4	84.1	154.6	47.7	0.0	1,996.1	
2002	0.0	0.0	21.0	40.7	180.2	385.7	491.0	407.4	351.7	44.1	8.7	0.0	1,930.5	
2003	0.0	13.7	0.0	18.5	408.3	180.5	175.5	206.4	286.6	112.0	35.7	0.0	1,437.2	
2004	0.0	0.0	0.0	52.9	167.8	431.1	165.3	295.4	73.7	11.5	13.7	0.0	1,211.4	
2005	0.0	0.0	12.1	21.9	246.2	335.5	698.0	695.6	334.7	65.4	42.7	2.4	2,454.5	
2006	0.0	0.0	0.8	163.9	111.6	197.9	677.7	639.4	634.2	288.4	7.0	0.0	2,720.9	
2007	0.0	0.0	37.5	62.2	266.7	291.7	580.4	687.1	426.2	320.3	100.9	0.0	2,773.0	
2008	0.0	0.0	20.0	5.7	511.4	87.3	201.2	382.1	383.5	58.4	48.4	2.7	1,700.7	
2009	0.0	5.9	7.7	288.8	377.2	171.2	785.4	610.5	782.5	218.2	101.0	0.0	3,348.4	
2010	0.2	1.2	3.5	20.1	51.5	70.6	394.3	354.9	83.5	346.8	83.6	0.0	1,410.2	
2011	0.0	0.0	6.3	101.1	553.3	628.3	382.8	508.0	653.8	334.7	98.7	0.0	3,267.0	
2012	0.5	9.9	20.9	102.9	187.7	396.5	590.0	553.3	580.0	124.2	14.2	0.0	2,580.1	
2013	0.2	0.0	3.9	144.9	222.4	456.7	440.3	516.7	793.9	290.3	53.7	0.6	2,923.6	
2014	0.0	0.0	0.0	143.5	317.9	306.8	513.1	603.7	312.6	240.3	76.8	9.4	2,524.1	
2015	0.0	0.0	0.0	15.2	194.7	499.1	351.3	220.2	252.2	76.9	3.9	0.0	1,613.5	
2016	0.2	0.0	0.0	18.1	183.1	357.8	346.0	427.9	510.0	376.1	17.3	46.6	2,283.1	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	0.1	3.3	15.4	86.3	251.3	388.9	426.3	517.9	364.0	206.3	61.5	9.3	2,331.7	
Max	2.8	35.2	114.4	320.6	573.2	951.7	887.4	1,375.1	793.9	967.6	285.9	79.9	3,710.9	

Legend: ND=No Data, IC=Incomplete Data

Station: Buon Ma Thuot		ID: RDL01											Longitude: 108.05	
Province: Dak Lak		Latitude: 12.66667											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.7	0.0	0.1	39.7	139.8	168.4	356.9	304.7	591.1	21.6	33.5	0.2	1,656.7	
1978	3.0	0.0	118.2	116.3	145.1	257.9	301.3	395.8	287.6	176.2	114.4	12.3	1,928.1	
1979	0.0	0.0	30.4	44.9	268.0	450.7	246.1	372.7	217.6	259.0	85.7	8.2	1,983.3	
1980	0.6	0.0	46.3	17.0	299.4	217.1	302.5	224.3	377.2	260.7	126.1	2.6	1,873.8	
1981	0.0	2.0	0.0	169.1	352.2	464.0	220.7	396.2	395.1	504.2	118.7	16.3	2,638.5	
1982	0.2	0.0	7.9	53.9	256.2	336.1	215.0	197.7	344.6	123.5	20.1	0.3	1,555.5	
1983	0.4	0.0	3.5	13.8	145.5	166.4	158.2	366.2	245.0	540.7	6.4	2.2	1,648.3	
1984	0.2	0.1	2.7	85.2	322.5	316.3	202.7	402.6	289.9	319.0	102.3	2.9	2,046.4	
1985	0.0	1.2	26.1	226.4	95.2	157.0	355.6	254.2	296.3	163.2	101.4	2.5	1,679.1	
1986	0.0	10.1	15.3	31.5	229.9	267.6	297.7	428.3	187.2	160.9	64.9	89.5	1,782.9	
1987	0.3	6.1	74.9	13.0	254.1	254.4	374.7	231.1	296.5	91.4	149.6	0.7	1,746.8	
1988	3.2	10.3	0.0	256.4	295.9	305.7	159.5	278.6	263.7	437.0	80.2	6.2	2,096.7	
1989	0.4	0.7	47.8	82.8	362.2	220.7	312.7	326.8	277.4	152.3	30.6	0.0	1,814.4	
1990	0.0	0.0	28.0	100.0	229.0	596.1	296.6	304.5	364.6	116.5	186.0	4.3	2,225.6	
1991	0.0	0.0	28.4	22.2	210.5	205.9	168.4	253.8	178.0	160.7	17.4	0.8	1,246.1	
1992	70.2	1.4	2.3	147.7	389.9	428.5	214.7	520.6	206.1	419.3	17.4	1.3	2,419.4	
1993	0.0	0.0	26.4	83.3	165.9	164.6	165.8	268.0	189.1	442.9	91.7	95.3	1,693.0	
1994	0.0	0.0	12.6	136.7	246.1	357.0	212.7	277.3	278.0	81.6	2.9	53.1	1,658.0	
1995	0.0	0.0	0.5	7.5	107.8	174.2	205.7	173.8	329.5	353.7	58.2	10.3	1,421.2	
1996	0.1	4.7	9.8	79.5	423.8	207.4	391.2	303.9	324.5	294.4	134.9	8.7	2,182.9	
1997	0.0	55.0	31.2	133.5	198.2	102.1	264.4	308.9	359.0	16.3	36.5	0.0	1,505.1	
1998	0.0	21.1	0.0	27.5	223.4	161.7	240.0	360.7	338.9	267.3	426.8	112.3	2,179.7	
1999	22.4	0.0	34.7	128.9	481.9	204.2	124.2	215.6	299.2	297.5	150.3	51.6	2,010.5	
2000	0.0	24.2	43.5	220.4	277.3	291.6	321.1	256.1	368.1	445.2	153.5	75.9	2,476.9	
2001	6.2	0.1	126.4	26.1	235.0	208.3	170.8	786.1	156.9	188.2	79.0	10.3	1,993.4	
2002	0.0	0.0	50.6	48.7	161.8	262.8	88.1	526.5	287.1	80.1	90.7	5.0	1,601.4	
2003	0.0	0.0	0.0	32.4	235.6	189.3	315.4	279.0	473.8	78.6	206.0	4.2	1,814.3	
2004	0.0	0.0	57.6	59.2	154.7	134.4	358.5	257.2	302.4	11.4	10.8	0.9	1,347.1	
2005	0.0	0.3	0.0	24.6	292.7	129.6	324.8	290.3	605.1	124.6	58.3	57.9	1,908.2	
2006	0.4	0.0	5.0	233.1	262.4	226.1	216.6	407.0	365.2	157.0	4.6	13.3	1,890.7	
2007	1.7	0.0	61.4	61.6	155.6	170.6	194.9	625.2	541.9	128.0	141.5	0.0	2,082.4	
2008	12.1	4.2	112.9	10.4	397.0	163.0	87.3	273.7	353.7	227.2	148.8	25.2	1,815.5	
2009	0.9	0.4	22.7	139.8	233.4	139.2	389.7	241.7	560.9	215.6	89.4	0.0	2,033.7	
2010	24.5	1.1	0.8	24.6	119.2	219.1	371.9	177.7	294.3	253.9	258.4	18.6	1,764.1	
2011	0.0	0.0	3.6	76.9	253.4	255.4	332.2	218.5	386.2	386.1	105.8	8.4	2,026.5	
2012	6.0	0.0	75.7	202.7	190.7	123.9	213.2	157.6	509.4	156.1	17.8	0.8	1,653.9	
2013	1.0	1.3	64.6	186.5	226.5	368.8	225.9	187.8	522.8	122.9	49.9	0.2	1,958.2	
2014	0.0	0.0	14.4	132.6	196.6	448.6	472.1	224.9	204.8	61.9	6.0	17.7	1,779.6	
2015	0.2	0.0	0.0	16.7	169.1	275.0	316.1	297.4	182.0	196.6	47.5	11.3	1,511.9	
2016	23.2	0.7	0.0	12.3	247.6	310.1	111.2	203.2	376.2	116.9	150.3	113.7	1,665.4	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	4.4	3.6	29.7	88.1	241.3	252.5	257.4	314.4	335.7	215.3	94.4	21.1	1,857.9	
Max	70.2	55.0	126.4	256.4	481.9	596.1	472.1	786.1	605.1	540.7	426.8	113.7	2,638.5	

Legend: ND=No Data, IC=Incomplete Data

Station: Buon Ho		ID: RDL02											Longitude: 108.2667	
Province: Dak Lak		Latitude: 12.91667											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	0.0	0.0	5.9	50.8	382.7	238.8	133.0	122.6	296.8	268.4	144.2	4.9	1,648.1	
1981	0.0	0.8	0.5	108.6	211.0	221.7	80.8	399.9	220.4	442.4	151.5	17.4	1,855.0	
1982	0.0	0.0	17.5	117.5	150.7	320.9	98.2	160.0	211.3	54.4	40.5	3.2	1,174.2	
1983	0.0	0.0	0.0	26.5	139.8	144.5	81.2	355.7	266.7	533.0	14.3	5.0	1,566.7	
1984	0.0	0.7	15.1	59.5	273.0	346.4	107.8	261.8	166.7	216.2	141.5	0.7	1,589.4	
1985	0.2	0.8	17.5	185.9	39.0	221.3	173.0	207.9	303.1	141.8	142.8	3.3	1,436.6	
1986	0.0	11.1	18.5	25.2	190.8	93.6	264.8	236.4	261.1	148.9	63.9	141.0	1,455.3	
1987	0.6	0.9	57.6	5.4	165.1	315.5	226.8	238.6	220.9	60.8	207.0	1.4	1,500.6	
1988	0.5	0.6	1.0	156.5	141.7	164.2	176.8	173.3	259.1	280.6	103.1	9.6	1,467.0	
1989	5.8	0.4	107.9	175.5	362.8	186.8	257.1	247.5	152.9	110.5	36.5	1.1	1,644.8	
1990	0.0	2.3	8.2	57.3	332.0	294.2	140.1	284.5	248.8	226.4	171.6	10.4	1,775.8	
1991	0.9	0.7	36.0	77.7	88.5	169.2	238.0	242.4	374.1	194.8	32.6	4.3	1,459.2	
1992	5.5	17.2	6.7	105.7	103.4	541.9	196.1	370.0	193.1	334.3	12.0	3.7	1,889.6	
1993	2.1	0.6	56.9	66.4	163.4	87.6	207.0	257.3	229.1	446.7	238.8	80.8	1,836.7	
1994	0.6	0.4	0.2	156.3	248.1	160.8	306.4	123.3	228.7	94.4	5.7	64.4	1,389.3	
1995	1.3	0.6	17.8	17.9	162.9	114.8	124.4	117.5	327.7	214.1	60.9	14.7	1,174.6	
1996	1.2	18.2	11.8	70.8	305.9	238.8	264.9	192.3	254.3	219.5	171.3	42.8	1,791.8	
1997	1.2	74.8	1.0	131.3	200.7	90.0	210.6	302.2	367.0	116.2	55.1	1.6	1,551.7	
1998	1.1	16.6	0.2	63.9	129.3	178.6	78.5	164.0	115.5	280.1	378.0	169.0	1,574.8	
1999	29.3	2.2	8.7	111.5	336.9	251.3	103.5	266.5	121.5	169.0	148.6	91.3	1,640.3	
2000	5.5	32.9	22.3	143.0	245.3	258.0	133.0	148.6	215.4	364.4	143.4	46.7	1,758.5	
2001	45.2	3.0	87.2	19.3	319.1	225.4	81.0	496.6	158.3	133.8	78.2	35.8	1,682.9	
2002	0.0	0.3	4.1	2.0	119.1	218.4	152.0	532.8	277.0	186.7	90.6	18.1	1,601.1	
2003	1.0	0.5	1.0	33.9	197.7	128.0	186.7	295.5	243.5	140.4	271.8	10.6	1,510.6	
2004	0.3	0.0	6.8	85.1	209.5	264.4	171.8	298.3	135.9	23.9	13.9	4.6	1,214.5	
2005	0.0	0.0	0.4	119.1	227.4	120.0	232.9	265.1	445.5	175.6	93.7	81.9	1,761.6	
2006	5.1	0.9	8.3	134.9	168.5	215.8	261.6	371.7	351.8	249.8	14.9	20.7	1,804.0	
2007	2.5	0.0	4.3	104.6	145.1	152.5	110.9	771.5	229.1	192.6	147.9	2.2	1,863.2	
2008	12.3	6.2	49.9	73.4	261.5	111.8	89.2	162.6	245.3	89.0	170.5	28.5	1,300.2	
2009	3.9	1.9	4.0	147.0	172.3	100.9	332.1	276.6	570.4	215.5	143.2	2.3	1,970.1	
2010	32.9	0.5	0.9	56.0	117.5	226.5	187.8	191.8	210.7	170.2	282.6	20.4	1,497.8	
2011	0.4	0.0	4.6	33.5	149.6	130.7	196.8	172.7	186.8	272.1	76.3	22.6	1,246.1	
2012	5.9	2.5	45.2	110.5	102.4	93.0	152.0	139.1	339.4	140.3	17.8	7.2	1,155.3	
2013	2.7	1.7	7.2	106.8	186.1	302.7	181.6	146.0	482.4	69.8	122.2	0.2	1,609.4	
2014	1.7	0.0	23.0	187.4	197.4	234.8	454.8	252.2	259.3	86.1	35.8	24.6	1,757.1	
2015	0.8	1.0	0.1	4.5	136.9	222.2	217.5	160.6	269.8	144.3	85.9	22.8	1,266.4	
2016	40.3	1.3	0.0	31.7	225.3	219.7	94.2	155.4	373.1	185.8	202.4	109.8	1,639.0	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	5.7	5.4	17.8	85.5	197.5	205.6	181.2	258.4	265.2	199.8	116.5	30.5	1,569.2	
Max	45.2	74.8	107.9	187.4	382.7	541.9	454.8	771.5	570.4	533.0	378.0	169.0	1,970.1	

Legend: ND=No Data, IC=Incomplete Data

Station:	Ea Hleo		ID:	RDL03		Longitude:	108.2							Unit: mm
Province:	Dak Lak							Latitude:	13.21667					
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1984	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1985	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1986	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1988	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1989	ND	ND	ND	ND	ND	ND	193.9	422.3	189.2	83.7	0.2	0.0	IC	
1990	0.0	5.1	8.0	69.0	231.8	400.2	161.1	446.1	312.7	385.7	235.6	0.0	2,255.3	
1991	0.0	0.0	20.1	49.1	148.8	228.5	280.1	279.6	438.8	178.9	25.0	0.6	1,649.5	
1992	2.9	4.6	5.5	5.1	226.2	346.2	239.9	368.5	265.7	355.8	2.4	3.2	1,826.0	
1993	0.0	0.0	5.6	73.1	177.7	59.2	204.7	279.7	368.2	261.7	122.9	11.3	1,564.1	
1994	0.0	0.0	0.0	68.2	269.6	217.3	468.3	164.9	281.5	62.7	0.8	10.4	1,543.7	
1995	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2002	0.0	0.0	4.2	16.8	101.0	147.8	154.7	403.1	238.0	65.8	44.4	5.5	1,181.3	
2003	0.0	0.1	26.8	6.1	213.7	89.1	160.1	221.4	200.0	51.3	184.6	1.7	1,154.9	
2004	0.0	0.0	0.0	53.6	148.3	469.9	166.0	315.1	144.3	13.8	21.2	7.7	1,339.9	
2005	0.0	0.0	0.0	72.2	253.6	178.9	286.1	415.9	415.1	132.0	72.6	51.8	1,878.2	
2006	2.2	0.1	9.9	165.0	108.2	156.3	506.8	482.6	473.0	149.1	36.9	15.3	2,105.4	
2007	2.3	0.0	48.9	83.4	206.3	164.7	153.4	667.1	231.2	199.9	224.1	0.6	1,981.9	
2008	1.4	2.0	30.9	82.9	316.1	129.8	152.8	241.9	361.6	78.0	178.9	14.2	1,590.5	
2009	10.8	0.3	16.2	103.4	220.5	162.7	585.1	468.5	1,035.9	319.5	168.1	14.2	3,105.2	
2010	15.9	0.0	2.1	258.6	194.7	194.6	406.1	386.1	213.4	281.9	255.5	6.5	2,215.4	
2011	0.0	0.2	10.3	49.7	271.7	246.2	388.6	284.8	484.2	505.6	139.4	21.3	2,402.0	
2012	2.6	1.4	71.9	220.1	206.7	255.6	396.7	228.5	559.5	141.2	10.9	14.0	2,109.1	
2013	0.5	0.5	43.9	199.3	198.1	306.4	148.2	277.6	983.2	324.2	156.1	0.0	2,638.0	
2014	0.0	0.0	3.1	124.3	373.7	394.7	676.8	431.0	227.2	113.2	36.6	16.8	2,397.4	
2015	0.1	0.0	7.9	19.1	330.8	266.3	191.0	89.5	249.2	116.4	66.0	6.6	1,342.9	
2016	0.0	3.7	0.1	58.8	415.3	312.4	155.4	450.1	352.8	278.2	187.8	163.4	2,378.0	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	1.9	0.9	15.8	88.9	230.6	236.3	289.3	348.8	382.1	195.2	103.3	17.4	1,932.9	
Max	15.9	5.1	71.9	258.6	415.3	469.9	676.8	667.1	1,035.9	505.6	255.5	163.4	3,105.2	

Legend: ND=No Data, IC=Incomplete Data

Station:	Ea Kmat		ID:	RDL04		Longitude:	108.1333		Latitude:	12.68333		Unit:	mm			
Province:	Dak Lak		Month	1	2	3	4	5	6	7	8	9	10	11	12	13
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1979	0.0	0.0	28.2	104.0	212.4	588.8	258.6	319.0	204.0	243.1	72.1	8.3	2,038.5			
1980	0.0	0.0	10.5	3.5	277.2	282.4	274.4	340.8	336.3	186.2	136.2	3.8	1,851.3			
1981	0.2	0.2	0.0	184.9	185.4	470.6	216.0	411.9	339.7	469.7	156.6	16.0	2,451.2			
1982	0.0	0.0	8.2	167.7	223.0	287.5	120.2	139.6	301.3	206.6	15.5	1.7	1,471.3			
1983	1.3	0.0	7.0	13.7	155.2	170.6	157.2	354.9	208.2	540.6	5.8	1.1	1,615.6			
1984	0.0	0.5	15.1	97.1	380.8	352.5	133.7	389.3	241.6	201.8	75.4	2.9	1,890.7			
1985	0.0	0.1	32.5	188.1	98.0	166.5	258.9	209.8	405.9	95.2	113.4	3.8	1,572.2			
1986	0.0	15.0	32.7	33.0	228.1	188.1	335.5	484.0	206.0	94.9	86.8	96.4	1,800.5			
1987	0.0	1.3	95.8	0.0	208.6	231.3	389.0	206.0	326.0	46.3	181.9	0.3	1,686.5			
1988	3.7	16.1	0.0	207.3	313.6	298.0	147.9	237.8	350.6	426.0	87.1	1.0	2,089.1			
1989	0.2	1.1	85.3	103.4	363.5	213.7	258.2	292.3	204.6	149.1	32.1	0.0	1,703.5			
1990	0.0	16.3	20.6	92.8	339.1	655.1	288.5	360.5	377.8	158.6	215.1	1.2	2,525.6			
1991	0.0	29.0	0.0	16.9	186.0	341.4	231.2	302.3	307.3	57.4	18.8	0.1	1,490.4			
1992	31.2	0.0	1.8	87.1	399.1	487.3	249.5	524.6	193.6	461.4	8.1	2.1	2,445.8			
1993	0.0	0.0	32.0	8.7	155.8	214.0	193.3	281.3	238.6	546.4	129.8	98.0	1,897.9			
1994	0.0	0.0	0.0	162.2	146.0	287.0	179.1	234.3	193.3	105.7	0.0	40.5	1,348.1			
1995	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1996	0.0	0.2	0.0	34.1	386.2	114.3	412.7	320.9	377.7	273.5	122.7	11.9	2,054.2			
1997	0.0	5.2	35.6	138.7	151.1	181.3	333.2	338.3	443.9	24.0	55.1	0.3	1,706.7			
1998	1.1	11.5	0.0	22.6	191.3	158.4	164.3	415.0	285.4	321.2	451.3	135.7	2,157.8			
1999	32.0	0.5	81.7	81.6	604.2	414.5	205.4	301.2	275.6	285.9	226.6	91.4	2,600.6			
2000	7.4	3.8	123.4	195.3	209.5	286.6	206.2	263.0	351.5	473.5	112.6	57.2	2,290.0			
2001	2.7	0.0	125.7	6.9	177.5	239.6	251.7	693.4	219.9	117.4	91.2	13.2	1,939.2			
2002	0.0	0.0	98.8	63.2	203.7	293.2	70.7	542.6	289.3	31.2	109.2	10.7	1,712.6			
2003	0.0	0.0	2.6	15.6	158.3	255.7	277.1	256.6	481.1	102.4	214.7	7.1	1,771.2			
2004	0.0	0.0	8.9	62.3	110.9	153.3	323.8	299.6	202.2	13.3	19.0	0.7	1,194.0			
2005	0.0	1.3	0.0	20.6	240.0	130.0	301.4	286.7	520.6	122.1	67.7	80.9	1,771.3			
2006	1.4	0.0	14.2	208.4	278.8	147.2	245.1	428.7	337.9	181.9	5.2	27.3	1,876.1			
2007	2.4	0.0	31.0	78.2	259.6	190.7	169.5	628.0	529.3	162.9	153.6	0.0	2,205.2			
2008	7.9	4.9	22.9	28.1	465.9	117.0	110.1	209.6	273.8	199.4	159.2	29.7	1,628.5			
2009	0.9	0.0	0.4	139.2	159.0	128.3	418.6	228.9	349.2	237.1	72.9	0.0	1,734.5			
2010	27.5	0.2	1.2	43.7	120.8	165.7	317.3	127.2	343.2	257.5	324.3	20.6	1,749.2			
2011	0.0	0.0	8.6	91.0	166.5	240.1	338.1	233.0	495.3	290.6	86.7	7.9	1,957.8			
2012	5.5	0.0	54.0	201.8	182.0	111.3	311.4	159.1	290.1	185.0	31.7	1.0	1,532.9			
2013	1.0	4.4	12.9	167.8	192.4	397.4	310.1	207.6	525.3	157.2	67.1	0.0	2,043.2			
2014	0.0	0.0	5.7	63.9	173.4	486.6	399.6	300.0	208.0	99.7	16.1	14.0	1,767.0			
2015	0.1	0.8	0.0	7.8	206.3	264.6	430.6	313.6	269.1	109.9	60.9	6.4	1,670.1			
2016	7.5	0.1	0.0	0.0	150.9	261.8	135.0	222.2	515.0	137.7	135.6	122.4	1,688.2			
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	3.6	3.0	27.0	84.9	234.1	269.5	254.7	320.6	324.8	210.1	105.9	24.7	1,862.9			
Max	32.0	29.0	125.7	208.4	604.2	655.1	430.6	693.4	529.3	546.4	451.3	135.7	2,600.6			

Legend: ND=No Data, IC=Incomplete Data

Station:	Lak	ID:	RDL05	Longitude:	108.2								Latitude:	12.36667	Unit:	mm
Province:	Dak Lak													Unit:	mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1980	7.4	0.0	13.3	107.4	229.9	284.5	265.9	542.8	415.6	459.5	109.7	0.0	2,436.0			
1981	0.0	0.0	4.3	99.9	210.7	456.5	224.0	372.8	213.1	565.3	153.2	31.4	2,331.2			
1982	0.0	0.0	11.2	18.5	234.4	369.8	264.5	341.3	538.0	110.5	0.0	0.0	1,888.2			
1983	0.0	0.0	0.0	5.0	95.5	217.5	180.0	210.5	206.5	441.0	0.0	0.0	1,356.0			
1984	0.0	0.0	14.0	123.8	316.0	226.0	338.1	437.0	166.2	385.0	29.0	0.0	2,035.1			
1985	0.0	20.1	0.0	212.0	14.0	210.5	371.5	268.0	259.5	164.5	253.0	0.0	1,773.1			
1986	0.0	0.0	10.0	18.0	37.0	125.0	301.0	492.7	327.3	123.6	35.0	134.7	1,604.3			
1987	0.0	0.0	21.5	0.0	111.9	251.5	513.9	233.9	414.8	87.1	239.3	0.0	1,873.9			
1988	0.0	1.2	6.5	37.2	218.1	263.1	227.3	330.7	282.5	352.0	220.5	0.2	1,939.3			
1989	0.0	0.0	49.4	190.3	420.4	331.0	526.0	715.8	392.5	218.0	40.7	0.0	2,884.1			
1990	0.0	3.8	9.8	55.1	253.8	657.5	307.7	570.8	250.3	189.3	273.0	6.0	2,577.1			
1991	0.0	0.1	14.8	33.1	127.8	152.4	192.5	250.5	344.3	153.9	7.6	0.0	1,277.0			
1992	0.0	3.1	6.3	129.5	485.7	513.0	335.9	576.9	302.3	390.6	4.2	1.1	2,748.6			
1993	0.1	0.0	92.8	23.5	233.2	216.3	257.4	289.5	208.5	458.9	139.4	144.8	2,064.4			
1994	0.0	0.8	0.8	67.8	117.9	407.0	328.6	247.2	190.8	139.8	10.8	23.6	1,535.1			
1995	0.0	0.0	26.8	50.7	183.6	147.1	325.5	332.2	219.5	317.2	19.3	23.8	1,645.7			
1996	0.0	10.4	0.0	63.3	285.3	186.8	107.7	209.7	283.8	287.6	122.9	50.1	1,607.6			
1997	0.0	24.5	3.6	98.0	284.7	122.3	453.5	283.5	155.1	45.4	59.4	0.0	1,530.0			
1998	0.0	0.0	0.0	86.6	152.8	213.4	180.8	232.2	234.2	185.2	715.6	181.2	2,182.0			
1999	15.5	0.0	84.5	227.4	353.1	410.1	351.8	205.7	138.6	226.6	205.5	95.8	2,314.6			
2000	7.0	0.0	46.7	160.4	261.7	255.9	245.0	262.4	287.9	640.4	124.4	0.0	2,291.8			
2001	0.5	0.0	62.3	46.4	221.6	524.8	253.1	508.1	173.7	148.9	103.9	11.1	2,054.4			
2002	0.0	0.0	52.1	43.1	174.3	428.8	174.0	507.3	377.5	59.1	115.4	2.2	1,933.8			
2003	0.0	0.0	0.0	66.5	304.4	217.2	295.4	456.7	363.1	135.4	136.7	1.9	1,977.3			
2004	0.0	0.0	13.1	50.7	121.5	228.5	232.9	448.5	162.6	30.0	17.1	5.8	1,310.7			
2005	0.0	2.5	11.1	32.6	298.8	205.4	213.5	430.4	556.2	115.5	57.3	113.6	2,036.9			
2006	0.8	0.0	17.3	43.5	156.2	169.0	314.7	373.6	403.2	117.5	6.1	0.0	1,601.9			
2007	1.8	0.0	63.3	26.6	187.6	245.4	393.7	632.0	472.5	109.5	90.5	0.0	2,222.9			
2008	7.9	1.6	2.1	80.7	583.9	225.8	165.9	277.8	319.6	219.2	189.5	11.5	2,085.5			
2009	0.0	13.4	2.2	181.7	298.4	285.2	377.9	313.2	751.2	267.1	83.4	0.0	2,573.7			
2010	27.8	0.0	0.4	8.0	169.2	168.4	328.0	346.2	207.7	188.0	151.5	21.3	1,616.5			
2011	0.0	0.0	13.4	27.6	199.8	430.6	399.1	227.0	423.9	457.6	83.1	14.4	2,276.5			
2012	1.5	0.0	28.4	187.5	162.6	126.6	165.9	125.3	386.6	186.2	19.7	0.3	1,390.6			
2013	3.9	7.7	20.5	87.7	238.2	273.3	244.9	295.8	461.8	165.8	55.6	0.3	1,855.5			
2014	0.0	0.0	5.9	160.2	152.9	425.7	430.5	330.0	464.7	62.4	5.3	16.0	2,053.6			
2015	0.0	0.0	1.0	46.7	155.3	342.6	194.2	307.9	242.0	171.5	33.0	17.5	1,511.7			
2016	9.7	0.0	0.0	9.4	179.6	306.6	182.1	174.8	406.1	220.1	248.3	126.8	1,863.5			
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Average	2.3	2.4	19.2	78.6	222.5	287.1	288.2	355.7	324.4	232.3	112.4	28.0	1,953.0			
Max	27.8	24.5	92.8	227.4	583.9	657.5	526.0	715.8	751.2	640.4	715.6	181.2	2,884.1			

Legend: ND=No Data, IC=Incomplete Data

Station:	M'Drak	ID:	RDL06	Longitude:	108.7667							Latitude:	12.73333	Unit:	mm
Province:	Dak Lak													Unit:	mm
Month	1	2	3	4	5	6	7	8	9	10	11	12	13		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1977	ND	ND	ND	ND	ND	47.0	68.8	144.0	342.5	140.1	450.3	28.9	IC		
1978	60.7	9.2	8.5	47.5	261.7	74.2	187.3	85.9	180.8	309.9	453.8	202.6	1,882.1		
1979	17.4	0.7	9.5	163.0	132.3	151.2	114.6	78.8	131.6	439.2	504.1	65.8	1,808.2		
1980	18.8	33.6	8.8	67.9	255.7	133.3	218.0	112.1	180.5	317.9	577.6	72.5	1,996.7		
1981	16.1	10.8	0.3	78.1	208.2	134.4	128.0	53.7	258.4	750.5	461.1	271.2	2,370.8		
1982	15.1	1.2	31.1	60.5	87.2	111.9	44.4	27.7	103.2	236.3	152.0	43.0	913.6		
1983	29.5	0.0	10.4	22.5	69.6	145.7	95.0	128.3	156.1	521.7	136.7	100.2	1,415.7		
1984	49.9	20.4	7.2	153.7	151.3	87.7	209.3	79.2	137.7	462.9	380.5	107.7	1,847.5		
1985	31.9	4.2	46.9	140.8	148.8	111.1	224.8	16.6	223.9	270.0	435.5	122.1	1,776.6		
1986	18.1	25.2	59.1	20.0	115.4	100.5	140.3	228.8	281.5	280.1	302.9	432.5	2,004.4		
1987	23.4	5.6	67.2	74.1	122.7	77.7	50.7	151.6	166.2	104.5	697.7	85.8	1,627.2		
1988	46.3	40.3	22.8	46.0	77.5	204.5	106.1	83.8	376.2	447.4	386.9	74.3	1,912.1		
1989	112.1	18.3	143.9	57.3	226.7	115.1	173.9	60.7	204.9	372.8	343.7	14.8	1,844.2		
1990	16.7	10.4	10.1	154.6	96.3	196.2	78.6	269.9	154.3	542.5	465.0	156.3	2,150.9		
1991	29.9	21.3	146.0	99.9	155.3	79.6	92.4	63.0	361.3	222.1	151.7	157.9	1,580.4		
1992	45.5	17.5	0.0	124.7	242.8	204.0	104.2	236.5	123.6	656.8	177.7	151.9	2,085.2		
1993	4.5	1.8	16.7	28.1	209.5	52.3	65.4	45.3	232.3	850.1	657.5	603.9	2,767.4		
1994	18.6	7.2	20.0	15.1	277.9	130.4	72.8	48.8	241.6	380.7	169.2	170.5	1,552.8		
1995	56.6	8.0	10.8	15.6	253.9	29.4	168.8	103.0	274.7	516.6	299.0	249.2	1,985.6		
1996	24.3	46.4	3.6	93.5	160.7	122.5	95.0	109.1	357.6	605.0	1,057.8	655.3	3,330.8		
1997	2.7	73.2	4.1	238.5	137.0	15.2	97.3	86.2	184.5	179.2	206.7	51.9	1,276.5		
1998	22.7	0.2	3.3	45.7	172.3	74.9	104.0	175.4	134.9	485.8	815.2	574.1	2,608.5		
1999	134.3	32.8	62.8	119.9	202.6	122.4	62.2	189.6	223.3	557.1	743.1	842.9	3,293.0		
2000	96.4	23.3	50.5	170.0	281.3	140.5	106.1	215.6	269.2	624.0	866.6	321.6	3,165.1		
2001	30.8	17.5	119.9	17.2	198.8	141.4	18.2	211.6	172.5	528.7	203.3	167.4	1,827.3		
2002	11.9	24.0	6.9	40.8	160.4	72.9	74.2	188.2	223.2	221.7	721.4	212.1	1,957.7		
2003	8.7	6.2	2.6	35.9	234.5	92.9	45.8	81.4	209.9	423.1	372.1	171.8	1,684.9		
2004	23.3	1.0	12.6	51.8	278.2	206.9	173.1	58.2	91.1	195.5	288.4	64.8	1,444.9		
2005	3.0	29.5	23.3	25.0	72.9	24.6	129.7	133.3	265.6	641.0	527.2	767.7	2,642.8		
2006	39.2	47.4	73.0	40.4	209.9	95.7	97.1	93.7	384.1	301.3	56.8	137.8	1,576.4		
2007	95.0	0.1	56.2	43.2	302.4	100.9	131.7	352.8	335.0	472.5	659.1	101.8	2,650.7		
2008	275.4	58.4	24.8	90.7	285.3	102.3	280.0	135.8	313.0	282.6	1,753.4	623.1	4,224.8		
2009	100.4	19.1	16.0	624.2	208.1	74.8	147.0	155.5	187.9	146.1	476.8	30.3	2,186.2		
2010	125.7	3.7	20.1	39.6	113.1	223.7	201.8	160.8	186.8	491.1	1,243.5	208.8	3,018.7		
2011	69.1	2.0	130.8	29.1	275.4	173.5	64.5	59.1	98.2	400.1	227.3	233.6	1,762.7		
2012	128.6	23.0	89.9	195.6	210.4	27.3	125.8	63.1	312.2	312.2	196.1	178.7	1,862.9		
2013	63.1	97.6	21.4	120.3	196.3	207.4	90.2	159.5	312.2	104.7	498.3	8.8	1,879.8		
2014	15.5	2.0	11.4	134.9	150.0	113.7	191.2	212.1	236.2	186.5	118.0	246.4	1,617.9		
2015	33.5	14.8	5.4	8.3	142.9	48.0	109.6	304.2	299.9	119.0	546.4	209.6	1,841.6		
2016	39.5	86.9	0.6	12.2	89.0	189.6	116.6	70.0	146.6	355.6	741.4	1,354.8	3,202.8		
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Average	50.1	21.7	34.8	90.9	184.0	113.9	120.1	130.8	226.9	386.4	488.0	256.9	2,117.4		
Max	275.4	97.6	146.0	624.2	302.4	223.7	280.0	352.8	384.1	850.1	1,753.4	1,354.8	4,224.8		

Legend: ND=No Data, IC=Incomplete Data

Station: Krong Pach		ID: RDL07											Longitude: 108.3742	
Province: Dak Lak		Latitude: 12.75279											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	0.0	0.0	30.0	119.7	184.6	150.5	162.5	268.9	202.0	182.6	164.7	11.9	1,477.4	
1979	0.0	0.0	0.0	43.9	146.5	233.4	67.2	164.5	136.4	231.2	98.9	0.0	1,122.0	
1980	0.0	0.0	0.0	88.7	223.4	98.9	146.0	195.0	239.0	312.0	151.9	0.0	1,454.9	
1981	0.0	0.0	0.0	54.0	183.0	ND	128.6	ND	ND	ND	ND	ND	IC	
1982	0.0	0.0	0.8	75.5	147.5	166.8	97.6	71.5	ND	ND	ND	ND	IC	
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1984	0.0	0.0	0.0	154.4	160.0	103.0	218.0	340.5	185.4	304.7	115.1	0.0	1,581.1	
1985	0.0	0.0	36.0	170.5	109.5	101.4	94.3	172.9	163.5	187.3	215.8	0.0	1,251.2	
1986	0.0	0.0	15.7	13.2	176.0	106.3	239.5	280.5	254.5	ND	ND	ND	IC	
1987	ND	ND	ND	ND	ND	113.7	204.6	134.8	192.4	52.9	ND	ND	IC	
1988	ND	ND	ND	49.3	146.2	ND	ND	ND	ND	ND	ND	ND	IC	
1989	ND	ND	ND	ND	ND	ND	193.9	422.3	189.2	83.7	0.2	0.0	IC	
1990	0.0	11.5	0.0	70.5	141.1	239.9	78.4	234.1	129.3	212.6	245.7	46.3	1,409.4	
1991	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1993	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1995	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	0.0	1.3	9.2	84.0	161.8	146.0	148.2	228.5	188.0	195.9	141.8	8.3	1,382.7	
Max.	0.0	11.5	36.0	170.5	223.4	239.9	239.5	422.3	254.5	312.0	245.7	46.3	1,581.1	

Legend: ND=No Data, IC=Incomplete Data

Station: Ban Don		ID: RDL08											Longitude: 107.7667	
Province: Dak Lak		Latitude: 12.9											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	0.9	90.9	162.8	304.5	184.1	520.1	52.7	35.2	0.0	1,351.2	
1978	0.0	0.0	70.7	139.5	224.2	207.0	294.7	323.6	193.5	90.3	99.9	16.6	1,660.0	
1979	0.0	0.0	5.3	221.1	174.0	575.1	271.6	271.7	134.7	94.3	29.4	1.1	1,778.3	
1980	6.1	0.0	22.2	81.1	196.6	258.4	242.7	110.8	332.7	220.3	100.2	0.0	1,571.1	
1981	0.0	12.5	0.0	75.0	178.4	321.9	164.0	275.0	97.3	328.1	45.3	1.4	1,498.9	
1982	0.0	0.0	13.1	51.9	263.0	238.0	205.2	274.6	294.4	176.1	5.5	0.0	1,521.8	
1983	5.0	0.0	28.7	26.8	108.6	254.4	138.3	365.8	153.4	421.3	13.2	0.0	1,515.5	
1984	1.5	0.0	41.6	143.4	143.2	268.0	274.0	216.0	188.0	219.6	207.2	6.0	1,708.5	
1985	6.0	0.0	4.5	363.4	133.8	151.2	267.9	209.4	311.1	143.9	78.5	1.6	1,671.3	
1986	0.0	67.4	46.3	19.6	206.8	154.3	184.9	370.3	255.3	119.7	75.0	65.0	1,564.6	
1987	0.0	0.0	0.5	31.4	221.5	275.6	472.8	300.7	422.5	77.5	126.8	0.0	1,929.3	
1988	1.2	0.0	4.3	106.4	183.8	281.6	207.9	162.2	144.3	319.1	73.5	2.7	1,487.0	
1989	0.0	0.0	64.0	32.4	326.9	172.5	230.1	282.2	243.7	113.6	25.7	0.0	1,491.1	
1990	0.0	0.0	4.3	38.4	169.9	343.4	310.9	198.4	296.0	215.5	144.9	0.0	1,721.7	
1991	0.0	0.0	15.1	60.9	217.3	187.8	130.1	223.3	322.6	131.2	13.9	0.0	1,302.2	
1992	5.1	0.4	0.9	26.7	162.3	302.0	232.6	287.8	245.8	287.8	0.0	0.0	1,551.4	
1993	0.0	0.0	131.0	83.9	215.6	189.4	195.8	232.1	190.6	364.4	72.0	61.0	1,735.8	
1994	0.0	0.0	5.0	86.3	159.7	213.9	205.3	104.3	169.4	116.0	0.0	32.0	1,091.9	
1995	0.0	0.0	27.0	0.0	223.2	186.7	185.8	243.9	359.0	249.6	0.0	0.0	1,475.2	
1996	0.0	0.8	11.5	235.3	446.6	256.6	288.0	243.0	223.5	312.6	147.4	1.5	2,166.8	
1997	0.0	2.5	27.0	154.6	147.0	165.3	284.6	371.0	298.8	128.2	21.1	0.0	1,600.1	
1998	0.0	0.0	0.0	208.8	203.4	178.7	156.6	187.5	212.8	284.4	302.6	69.0	1,803.8	
1999	2.0	0.0	69.5	67.4	249.8	137.7	146.8	180.9	361.3	103.5	182.8	19.6	1,521.3	
2000	0.0	1.0	28.5	127.5	176.6	252.7	129.5	161.7	218.9	206.2	91.3	15.7	1,409.6	
2001	23.4	0.0	165.3	39.5	331.5	279.9	126.4	429.4	217.3	144.7	52.4	4.2	1,814.0	
2002	0.0	0.0	16.1	6.5	319.0	150.9	80.5	390.1	339.7	134.4	33.7	14.2	1,485.1	
2003	0.0	0.0	0.5	141.9	283.7	144.0	260.0	257.6	247.5	46.0	136.0	0.0	1,517.2	
2004	0.0	0.0	28.7	107.9	50.0	216.1	239.7	254.3	175.1	14.0	3.4	0.0	1,089.2	
2005	0.0	0.0	8.0	32.8	353.3	241.8	335.0	239.5	405.2	153.1	17.8	21.7	1,808.2	
2006	0.8	0.0	12.0	84.7	178.6	176.0	167.6	277.3	255.2	194.4	31.6	1.3	1,379.5	
2007	0.0	0.0	44.4	121.7	205.4	253.5	271.7	338.9	212.5	179.5	76.0	0.0	1,703.6	
2008	0.0	0.0	0.0	2.5	272.8	106.7	157.1	237.6	337.6	106.4	79.2	43.0	1,342.9	
2009	0.0	1.1	68.5	111.2	278.8	124.9	329.8	424.4	427.9	326.4	85.2	0.0	2,178.2	
2010	3.9	0.0	0.0	56.6	122.4	198.0	275.7	158.7	218.3	248.4	108.9	3.0	1,393.9	
2011	0.0	0.0	6.5	73.2	387.3	288.7	196.8	160.2	142.5	290.1	126.7	14.5	1,686.5	
2012	0.0	0.0	45.3	138.4	158.1	283.8	203.2	152.4	400.0	400.0	16.3	0.0	1,797.5	
2013	1.0	0.0	54.8	29.1	137.0	344.2	216.6	184.6	410.4	94.7	37.8	0.0	1,510.2	
2014	0.0	0.0	0.0	267.9	315.7	188.3	262.6	170.8	204.7	195.3	24.5	2.8	1,632.6	
2015	0.0	0.0	0.0	4.0	178.4	237.2	159.9	70.6	161.9	84.6	29.2	3.0	928.8	
2016	18.0	0.0	0.0	13.3	234.0	214.8	94.2	213.8	311.2	239.2	73.2	70.7	1,482.4	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	1.9	2.1	26.8	90.3	215.7	229.6	222.5	243.5	266.4	190.7	70.6	11.8	1,572.0	
Max	23.4	67.4	165.3	363.4	446.6	575.1	472.8	429.4	520.1	421.3	302.6	70.7	2,178.2	

Legend: ND=No Data, IC=Incomplete Data

Station: Giang Son		ID: RDL09										Longitude: 108.2		Unit: mm
Province: Dak Lak		Latitude: 12.5												
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	25.4	157.3	94.5	326.6	281.7	523.6	13.0	73.9	1.6	1,497.6	
1978	2.6	0.0	33.3	226.4	269.2	236.4	307.0	412.8	215.1	223.8	115.0	27.5	2,069.1	
1979	0.0	0.0	45.6	113.0	317.7	305.2	317.9	200.8	196.8	305.2	134.6	7.5	1,944.3	
1980	2.4	0.0	6.0	131.7	327.5	168.5	272.8	301.2	331.2	233.9	152.4	8.1	1,935.7	
1981	0.0	0.0	0.0	223.4	180.7	259.5	232.5	235.8	207.0	589.2	167.7	87.3	2,183.1	
1982	1.9	0.0	13.7	56.1	203.2	403.3	186.9	394.2	269.9	170.8	15.2	0.0	1,715.2	
1983	0.0	0.0	17.3	0.5	186.4	229.8	165.8	187.4	278.8	360.3	58.3	32.0	1,516.6	
1984	0.3	0.1	56.1	218.7	236.9	207.2	204.4	487.9	345.0	545.0	81.6	9.0	2,392.2	
1985	0.0	42.5	15.0	310.7	149.9	206.9	311.9	176.1	322.1	151.7	164.9	12.0	1,863.7	
1986	0.0	2.7	46.4	34.1	183.9	242.5	235.5	468.2	282.4	114.4	87.8	142.8	1,840.7	
1987	0.0	0.3	10.2	41.3	97.7	316.2	429.5	226.6	568.1	84.2	317.5	2.5	2,094.1	
1988	0.8	0.2	0.0	77.4	91.5	264.8	356.6	270.4	365.7	342.0	146.8	0.0	1,916.2	
1989	0.6	2.0	44.4	55.4	366.7	140.5	254.2	304.1	192.5	126.6	53.6	0.0	1,540.6	
1990	0.0	0.0	3.7	175.1	161.9	461.7	269.2	337.6	283.6	202.6	232.5	19.8	2,147.7	
1991	0.0	0.0	23.2	43.1	146.7	140.9	163.7	300.2	214.4	200.0	13.2	0.0	1,245.4	
1992	0.0	4.5	0.0	49.1	346.0	417.8	288.2	455.7	199.0	316.1	18.8	0.0	2,095.2	
1993	0.0	0.0	22.8	14.0	147.6	142.0	278.3	206.7	274.0	516.8	110.3	176.5	1,889.0	
1994	0.0	17.4	0.5	104.8	175.4	450.1	309.5	221.1	229.2	162.7	6.9	21.9	1,699.5	
1995	0.0	0.0	25.2	0.0	194.4	148.4	177.1	276.8	357.3	261.0	78.0	24.1	1,542.3	
1996	0.0	5.0	0.0	95.8	398.5	210.4	191.1	229.4	353.9	343.2	208.8	110.8	2,146.9	
1997	0.0	6.5	12.5	221.3	228.7	205.5	375.9	267.1	368.7	49.9	70.2	0.0	1,806.3	
1998	0.0	18.3	0.0	25.1	211.1	257.8	244.8	304.3	201.3	428.4	580.3	197.1	2,468.5	
1999	35.3	0.0	54.4	146.6	313.4	244.6	226.8	124.2	302.6	268.1	218.4	154.0	2,088.4	
2000	0.6	27.4	49.7	41.9	272.5	265.6	131.3	217.2	304.9	411.5	175.0	108.7	2,006.3	
2001	2.3	0.0	54.7	0.0	189.7	405.9	133.4	568.8	225.9	127.5	81.4	41.9	1,831.5	
2002	0.0	0.0	3.7	73.8	183.1	236.3	205.3	432.5	390.5	57.7	120.9	24.1	1,727.9	
2003	0.0	0.0	0.0	23.9	273.1	214.8	149.0	294.9	389.1	88.9	201.1	1.2	1,636.0	
2004	0.0	0.0	1.4	35.1	158.5	186.0	272.7	435.9	178.3	26.8	10.0	7.0	1,311.7	
2005	0.0	14.0	0.0	82.0	221.3	163.4	149.2	283.5	402.8	121.4	52.8	123.2	1,613.6	
2006	1.4	0.0	15.9	102.4	173.3	139.8	315.0	365.3	319.9	168.6	27.8	30.8	1,660.2	
2007	7.8	0.0	32.5	45.1	287.0	239.7	204.6	548.0	585.7	229.9	201.9	0.0	2,382.2	
2008	41.1	3.7	0.0	64.1	570.1	194.3	215.0	269.1	319.6	224.5	226.1	21.3	2,148.9	
2009	6.4	2.4	40.6	307.3	181.9	283.8	450.6	245.4	459.7	246.9	95.5	0.0	2,320.5	
2010	52.6	0.0	4.4	47.5	164.2	233.1	209.5	177.9	174.4	274.7	275.8	17.8	1,631.9	
2011	0.0	0.0	15.9	134.0	207.3	332.6	362.2	317.1	430.2	294.7	80.9	32.9	2,207.8	
2012	11.4	0.0	49.2	255.8	93.3	120.9	132.6	123.0	350.9	350.9	23.3	7.9	1,519.2	
2013	1.8	3.5	23.0	156.2	211.5	275.9	253.8	176.8	404.7	169.1	79.0	0.0	1,755.3	
2014	0.0	0.0	0.0	151.6	147.1	326.0	478.3	450.5	335.0	73.9	6.6	38.1	2,007.1	
2015	0.0	0.0	0.0	1.0	165.6	310.8	210.6	336.8	272.6	132.7	42.9	14.4	1,487.4	
2016	9.8	12.3	0.0	71.1	131.6	258.5	398.5	165.8	323.4	233.8	261.7	223.3	2,089.8	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	4.5	4.1	18.0	99.5	218.1	248.5	259.9	302.0	318.7	231.1	126.7	43.2	1,874.4	
Max.	52.6	42.5	56.1	310.7	570.1	461.7	478.3	568.8	585.7	589.2	580.3	223.3	2,468.5	

Legend: ND=No Data, IC=Incomplete Data

Station: Krong Bong		ID: RDL10											Longitude: 108.3991	
Province: Dak Lak		Latitude: 12.55115											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	4.4	10.2	4.5	49.5	137.4	131.5	140.1	137.1	251.4	265.5	244.1	27.9	1,403.6	
1981	8.7	29.9	14.4	30.3	118.3	241.0	148.5	212.0	219.6	571.8	397.8	0.0	1,992.3	
1982	0.0	0.0	12.2	95.0	311.8	336.1	102.8	98.6	263.2	153.0	16.6	8.8	1,398.1	
1983	1.5	0.9	12.8	64.2	118.4	161.9	95.6	192.9	198.0	494.5	51.9	31.2	1,423.8	
1984	4.8	4.8	2.5	81.4	90.7	143.9	115.3	243.1	190.5	305.5	198.6	29.0	1,410.1	
1985	3.8	9.9	28.4	268.5	138.9	64.4	300.4	68.3	327.4	203.6	260.0	55.3	1,728.9	
1986	5.4	0.0	5.8	4.8	222.2	63.0	226.5	285.3	191.3	144.2	139.8	227.9	1,516.2	
1987	8.2	0.0	68.0	22.0	49.5	134.6	228.2	186.2	208.8	64.8	298.7	13.9	1,282.9	
1988	ND	ND	ND	ND	ND	ND	160.5	245.3	388.0	428.7	261.3	19.2	IC	
1989	0.0	0.0	11.1	110.8	228.1	85.3	322.1	234.7	204.6	140.1	69.6	0.0	1,406.4	
1990	0.0	0.0	1.7	82.1	100.8	473.3	230.1	328.6	231.4	252.0	349.5	0.0	2,049.5	
1991	ND	ND	ND	ND	ND	ND	147.0	184.9	223.9	235.1	21.4	0.5	IC	
1992	0.0	4.5	22.5	84.2	264.6	390.1	271.4	339.1	177.8	585.5	19.0	0.0	2,158.7	
1993	2.4	0.0	49.3	27.2	145.5	212.4	114.5	187.2	249.1	574.8	181.9	330.2	2,074.5	
1994	1.2	0.0	7.3	85.3	142.4	133.7	246.3	155.3	271.2	216.6	42.9	51.5	1,353.7	
1995	0.0	0.0	3.2	0.0	173.1	120.8	239.8	164.7	379.2	329.0	128.2	71.4	1,609.4	
1996	8.6	12.5	27.8	129.5	393.1	136.3	176.7	180.9	270.7	333.8	281.3	264.0	2,215.2	
1997	0.0	4.7	12.0	126.3	186.7	153.3	229.2	186.3	365.1	121.0	119.8	2.5	1,506.9	
1998	0.0	17.9	0.0	53.1	174.9	216.0	163.0	196.5	149.0	315.7	895.6	365.7	2,547.4	
1999	57.5	4.5	46.2	109.4	400.3	285.9	154.0	126.3	168.8	337.8	321.9	309.4	2,322.0	
2000	19.3	6.0	27.0	92.9	216.6	163.5	197.3	132.5	310.8	535.9	323.8	231.4	2,257.0	
2001	15.5	8.6	82.5	34.3	203.4	233.6	86.4	497.3	237.1	148.5	100.0	68.8	1,716.0	
2002	0.0	4.8	27.9	17.7	144.0	248.2	153.0	430.1	234.7	75.4	214.6	44.7	1,595.1	
2003	0.0	0.0	0.0	43.1	228.0	234.2	112.0	414.1	230.5	128.4	258.5	19.0	1,667.8	
2004	0.4	11.7	11.7	32.6	121.6	145.1	121.4	307.7	281.5	52.3	41.7	22.6	1,150.3	
2005	0.0	4.6	12.9	95.7	337.9	150.6	211.6	188.0	422.1	185.7	118.9	424.0	2,152.0	
2006	10.9	14.8	42.8	49.7	471.5	159.0	217.2	313.4	406.2	110.2	19.4	59.6	1,874.7	
2007	40.5	0.0	78.7	53.0	294.6	301.1	163.3	604.4	375.9	332.4	445.6	8.4	2,697.9	
2008	97.3	20.8	17.0	37.8	310.4	233.4	134.3	236.9	313.6	231.1	452.8	85.1	2,170.5	
2009	12.9	2.5	1.2	163.2	265.8	154.7	345.9	136.7	370.3	214.1	257.4	0.7	1,925.4	
2010	103.9	0.0	5.1	40.0	110.8	189.8	278.0	232.8	259.5	417.5	448.7	49.4	2,135.5	
2011	2.8	0.0	67.9	112.4	205.5	371.5	327.6	238.0	274.8	359.0	125.2	90.1	2,174.8	
2012	25.3	6.5	66.4	194.6	272.7	77.1	109.2	112.6	330.8	257.8	93.9	18.0	1,564.9	
2013	36.9	12.7	11.1	89.5	175.5	236.9	266.6	180.9	447.1	157.7	228.2	1.9	1,845.0	
2014	1.7	0.0	38.1	121.7	216.2	242.2	330.5	294.8	303.2	58.4	25.3	110.5	1,742.6	
2015	0.5	0.0	0.0	0.0	138.8	287.2	368.9	359.5	318.1	151.0	89.8	89.4	1,803.2	
2016	7.4	31.1	0.0	59.4	219.5	276.7	158.0	199.6	231.6	244.3	563.2	313.6	2,304.4	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	13.8	6.4	23.4	76.0	209.4	205.4	199.8	238.7	277.8	263.0	219.1	93.1	1,833.6	
Max	103.9	31.1	82.5	268.5	471.5	473.3	368.9	604.4	447.1	585.5	895.6	424.0	2,697.9	

Legend: ND=No Data, IC=Incomplete Data

Station: Buon Dray		ID: RDL11											Longitude: 107.9836	
Province: Dak Lak		Latitude: 12.5354											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1984	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1985	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1986	ND	ND	ND	ND	ND	ND	ND	ND	208.6	223.9	52.0	ND	IC	
1987	0.0	0.0	2.8	4.1	195.4	246.7	381.3	160.0	354.4	17.7	141.6	0.0	1,504.0	
1988	1.5	0.4	0.2	138.5	263.7	257.7	203.1	296.9	120.3	314.7	75.9	0.7	1,673.6	
1989	0.0	0.0	60.3	145.2	241.8	505.7	173.0	313.2	267.0	194.1	160.5	0.2	2,061.0	
1990	0.0	0.0	40.1	44.1	198.0	318.1	209.2	232.1	251.3	148.7	5.7	0.2	1,447.5	
1991	18.9	0.0	15.5	64.3	290.0	434.4	179.1	405.6	316.0	308.3	7.3	0.1	2,039.5	
1992	0.0	0.0	51.0	65.8	300.6	141.2	245.2	296.9	236.1	438.4	71.0	111.4	1,957.6	
1993	0.0	0.0	51.0	65.8	300.6	141.2	245.2	296.9	236.1	438.4	71.0	111.4	1,957.6	
1994	0.0	8.2	0.7	112.2	266.6	265.4	297.0	130.4	395.3	68.9	1.2	32.2	1,578.1	
1995	0.0	0.0	13.6	31.2	203.8	216.0	285.1	176.9	344.8	301.0	26.0	7.8	1,606.2	
1996	0.0	0.0	30.1	31.7	234.8	205.1	215.5	226.2	297.3	305.1	147.6	23.5	1,716.9	
1997	0.0	14.6	18.3	191.2	175.4	199.2	241.1	203.7	369.8	55.1	36.8	0.0	1,505.2	
1998	0.0	10.6	3.7	99.6	239.1	162.3	231.3	277.9	224.4	271.5	370.2	96.1	1,986.7	
1999	10.8	0.0	15.8	145.7	386.3	187.6	301.9	290.1	189.2	191.6	153.6	65.8	1,938.4	
2000	0.0	0.0	0.8	161.4	244.2	232.2	187.2	232.2	339.1	439.8	85.5	40.3	1,962.7	
2001	1.6	0.0	58.3	16.3	246.0	317.8	120.5	471.9	204.5	183.0	70.4	4.7	1,695.0	
2002	0.0	0.0	69.2	60.5	216.9	252.5	109.2	332.6	333.4	126.9	0.0	0.0	1,501.2	
2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2004	0.0	0.0	13.0	22.0	164.0	205.9	195.9	435.3	163.0	6.6	7.7	1.5	1,214.9	
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	1.9	2.0	26.1	82.3	245.1	252.3	224.8	281.1	269.5	224.1	82.4	29.2	1,726.2	
Max	18.9	14.6	69.2	191.2	386.3	505.7	381.3	471.9	395.3	439.8	370.2	111.4	2,061.0	

Legend: ND=No Data, IC=Incomplete Data

Station: Buon Trap		ID: RDL12											Longitude: 108.0334	
Province: Dak Lak		Latitude: 12.48532											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	0.1	0.0	32.9	137.8	202.4	110.9	305.7	387.6	232.2	164.4	77.8	11.6	1,663.4	
1979	0.0	0.0	65.2	149.5	272.3	353.0	391.1	238.1	235.4	213.3	74.3	14.9	2,007.1	
1980	2.0	0.0	30.7	16.8	325.1	267.3	256.3	195.9	406.3	304.8	128.6	3.6	1,937.4	
1981	0.0	0.0	0.0	78.4	209.7	356.4	287.3	239.6	195.1	491.8	132.3	46.7	2,037.3	
1982	0.0	0.0	6.3	0.0	0.0	255.0	114.5	303.0	307.0	0.0	3.5	0.0	989.3	
1983	0.0	0.0	6.3	0.0	0.0	0.0	0.0	222.8	219.5	342.0	19.0	0.0	809.6	
1984	0.0	0.0	37.0	132.3	236.5	172.4	198.7	288.0	217.9	271.7	59.0	0.0	1,613.5	
1985	0.0	9.5	11.5	183.7	88.1	75.0	270.8	152.3	163.4	156.0	133.5	0.0	1,243.8	
1986	0.0	47.0	53.0	74.5	178.6	202.1	127.2	448.1	296.6	110.0	58.0	0.0	1,595.1	
1987	0.0	0.0	31.5	42.0	134.5	280.8	173.1	96.7	264.8	37.5	148.9	0.0	1,209.8	
1988	0.1	0.1	14.6	88.3	220.8	393.9	200.4	383.5	219.3	340.8	4.5	0.0	1,866.3	
1989	0.0	0.0	5.2	4.6	327.4	93.3	227.6	303.2	241.9	243.5	0.0	0.0	1,446.7	
1990	0.0	0.0	2.9	213.3	280.7	574.9	220.9	293.0	285.8	140.0	166.8	0.4	2,178.7	
1991	0.0	0.0	5.3	13.9	249.5	120.5	177.7	295.4	296.9	217.7	9.1	0.0	1,386.0	
1992	0.6	0.0	15.8	146.4	543.4	433.4	281.6	414.4	239.1	360.6	17.4	0.5	2,453.2	
1993	0.0	0.0	25.6	67.7	183.1	232.2	164.8	185.4	190.0	523.2	60.7	124.7	1,757.4	
1994	0.0	41.8	0.2	130.4	246.4	362.4	313.6	173.6	261.3	91.2	3.8	20.4	1,645.1	
1995	0.2	37.3	26.4	2.9	221.0	113.2	236.4	279.1	0.0	0.0	0.0	0.0	916.5	
1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	0.2	7.5	20.6	82.4	217.8	244.3	219.3	272.2	237.4	222.7	61.0	12.4	1,597.6	
Max	2.0	47.0	65.2	213.3	543.4	574.9	391.1	448.1	406.3	523.2	166.8	124.7	2,453.2	

Legend: ND=No Data, IC=Incomplete Data

Station: Buon Triet		ID: RDL13											Longitude: 108.052	
Province: Dak Lak		Latitude: 12.38606											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	12.0	0.0	33.0	89.0	224.0	214.0	228.0	372.0	354.5	269.0	197.0	12.5	2,005.0	
1981	5.5	0.5	0.0	146.5	174.0	338.5	125.0	260.0	266.2	456.1	166.8	12.5	1,951.6	
1982	0.0	0.0	16.0	62.0	160.0	189.0	239.0	109.0	314.0	50.0	7.0	0.0	1,146.0	
1983	0.0	0.0	0.0	0.0	53.7	282.3	0.0	194.8	294.4	43.7	176.3	0.0	1,045.2	
1984	0.0	0.0	37.0	132.3	236.5	172.4	198.7	288.0	217.9	271.7	59.0	0.0	1,613.5	
1985	0.0	9.5	11.5	183.7	88.1	75.0	270.8	152.3	163.4	156.0	133.5	0.0	1,243.8	
1986	0.0	47.0	53.0	74.5	178.6	202.1	127.2	467.1	296.6	110.0	58.0	0.0	1,614.1	
1987	0.0	0.0	0.0	0.0	53.7	282.3	0.0	194.8	293.4	43.7	176.3	0.0	1,044.2	
1988	0.0	0.0	1.3	49.0	196.4	262.6	163.6	394.8	237.1	377.6	177.9	0.0	1,860.3	
1989	0.0	0.0	93.0	17.9	397.4	264.5	307.8	455.5	334.1	110.7	17.3	0.0	1,998.2	
1990	0.0	0.0	34.8	163.9	227.2	609.8	267.4	435.4	397.4	189.3	161.4	11.2	2,497.8	
1991	0.0	0.0	12.8	35.1	139.8	117.0	207.8	214.0	246.0	240.9	6.4	0.0	1,219.8	
1992	1.5	0.0	19.8	105.8	372.2	406.5	388.3	404.8	323.9	265.0	10.8	0.1	2,298.7	
1993	0.0	0.0	73.6	12.2	164.5	179.8	199.4	201.8	142.5	426.3	89.1	118.3	1,607.5	
1994	0.0	16.1	0.0	247.7	136.5	367.5	281.4	270.1	291.7	137.2	3.5	20.4	1,772.1	
1995	0.0	0.0	18.8	17.2	230.8	129.2	246.7	279.1	359.2	325.2	24.2	27.8	1,658.2	
1996	0.3	4.5	4.9	135.9	372.8	275.1	275.2	192.6	278.7	304.9	163.2	93.7	2,101.8	
1997	0.0	6.0	0.0	187.9	268.4	191.0	413.5	247.5	275.9	36.0	57.1	0.0	1,683.3	
1998	0.0	0.2	0.8	74.0	270.8	180.5	220.7	219.4	256.8	292.3	426.2	166.9	2,108.6	
1999	11.3	0.0	48.6	248.0	399.5	269.1	211.4	197.7	200.7	214.0	128.7	80.6	2,009.6	
2000	4.9	17.1	25.9	166.9	273.1	263.2	238.5	238.5	233.1	469.9	83.2	31.8	2,046.1	
2001	1.2	0.2	89.1	33.8	224.5	356.7	114.1	443.3	159.6	96.8	78.0	8.6	1,605.9	
2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	1.7	4.6	26.1	99.2	220.1	255.8	214.8	283.3	269.9	222.1	109.1	26.6	1,733.2	
Max	12.0	47.0	93.0	248.0	399.5	609.8	413.5	467.1	397.4	469.9	426.2	166.9	2,497.8	

Legend: ND=No Data, IC=Incomplete Data

Station: Ea Hding		ID: RDL15											Longitude: 108.1173	
Province: Dak Lak		Latitude: 12.89775											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1984	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1985	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1986	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1988	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1989	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1990	0.0	0.0	0.0	54.3	288.4	629.7	305.2	385.9	216.0	241.3	203.7	3.2	2,327.7	
1991	0.0	0.0	43.1	26.2	85.0	254.9	238.3	252.0	290.0	98.0	22.2	2.2	1,311.9	
1992	10.2	0.0	0.4	32.9	171.3	386.4	277.9	395.6	184.5	441.6	0.8	0.0	1,901.6	
1993	0.0	0.0	43.0	37.3	217.9	142.1	272.5	344.2	295.8	461.9	180.0	43.4	2,038.1	
1994	0.0	2.0	6.7	95.8	228.8	277.8	329.9	222.2	341.6	86.2	0.0	12.2	1,603.2	
1995	0.0	0.0	67.1	32.2	183.4	134.9	215.5	239.6	237.0	302.4	42.6	11.0	1,465.7	
1996	0.0	0.0	20.7	108.0	459.5	194.3	290.4	180.5	396.8	177.5	209.1	1.8	2,038.6	
1997	0.0	53.6	5.9	138.9	229.3	153.3	322.8	400.9	425.2	66.8	28.4	0.0	1,825.1	
1998	3.5	31.0	0.0	18.7	268.6	235.0	110.6	293.9	177.3	281.4	407.4	127.3	1,954.7	
1999	7.4	0.0	117.9	175.1	381.8	329.4	133.5	292.1	190.4	195.6	118.1	40.6	1,981.9	
2000	5.2	11.5	78.5	142.6	286.3	307.9	143.5	223.4	274.1	404.3	78.3	7.7	1,963.3	
2001	0.0	0.0	53.1	33.2	364.5	286.0	136.9	548.5	122.1	200.6	99.5	10.2	1,854.6	
2002	0.0	0.0	13.4	0.0	238.6	223.2	125.4	565.2	468.4	129.1	35.2	1.7	1,800.2	
2003	0.0	0.0	0.0	13.0	186.9	214.6	340.1	555.8	313.8	93.8	171.9	1.5	1,891.4	
2004	0.0	0.0	2.5	78.0	182.7	231.9	306.6	435.3	169.1	32.2	5.9	0.0	1,444.2	
2005	0.0	0.0	0.0	22.9	268.5	269.7	488.0	376.0	624.9	141.6	51.0	53.2	2,295.8	
2006	0.0	0.0	3.2	79.3	162.8	256.6	292.9	637.5	483.8	209.1	8.2	5.0	2,138.4	
2007	0.0	0.0	40.1	49.5	264.8	193.4	161.5	747.3	416.0	150.7	92.7	0.0	2,116.0	
2008	4.0	4.4	7.2	16.4	453.8	242.2	155.6	254.1	347.3	98.7	130.8	17.8	1,732.3	
2009	0.0	0.0	8.2	150.9	294.3	183.8	502.9	467.0	655.9	298.2	87.0	0.0	2,648.2	
2010	8.2	0.0	0.0	92.4	119.3	174.0	339.7	180.9	205.5	224.1	200.9	8.6	1,553.6	
2011	0.0	0.0	4.3	30.2	250.2	243.6	237.1	146.5	263.3	183.8	246.1	3.2	1,608.3	
2012	11.8	2.0	14.9	220.9	108.2	142.8	266.9	217.2	399.5	125.7	9.5	0.0	1,519.4	
2013	2.0	0.0	17.2	103.4	222.3	408.0	444.2	277.6	640.0	131.6	57.8	0.0	2,304.1	
2014	0.0	0.0	0.0	175.6	113.3	310.2	620.0	319.2	234.6	99.5	68.3	45.2	1,985.9	
2015	0.0	0.0	0.0	8.2	203.1	252.7	289.1	148.5	257.0	103.0	30.3	5.5	1,297.4	
2016	15.8	0.0	0.0	5.3	265.2	280.7	88.8	229.5	445.7	262.8	118.6	68.7	1,781.1	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	2.5	3.9	20.3	71.9	240.7	257.7	275.4	345.8	336.1	194.1	100.2	17.4	1,866.0	
Max.	15.8	53.6	117.9	220.9	459.5	629.7	620.0	747.3	655.9	461.9	407.4	127.3	2,648.2	

Legend: ND=No Data, IC=Incomplete Data

Station:	Ea Knop		ID:	RDL16		Longitude:	108.4496						Unit: mm
Province:	Dak Lak						Latitude:	12.80318					
Month	1	2	3	4	5	6	7	8	9	10	11	12	13
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1982	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1983	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1984	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1985	0.0	0.0	0.0	0.0	74.4	108.6	189.9	22.6	324.5	200.7	290.1	51.8	1,262.6
1986	0.0	0.0	32.0	2.1	132.1	90.8	96.2	183.0	242.5	155.1	197.5	282.1	1,413.4
1987	0.0	0.0	0.0	14.0	118.1	89.4	83.2	47.4	224.0	87.6	430.6	2.4	1,096.7
1988	0.0	0.0	0.0	0.0	0.0	141.0	75.8	29.6	72.6	250.6	279.4	0.0	849.0
1989	0.0	0.0	39.4	77.8	181.7	9.0	32.5	29.0	229.2	93.7	108.8	0.0	801.1
1990	0.0	0.0	29.0	33.5	106.6	157.3	78.9	193.0	132.1	346.4	373.2	50.2	1,500.2
1991	0.0	4.4	88.3	105.3	93.8	107.1	69.4	58.3	289.0	184.5	84.5	26.8	1,111.4
1992	0.0	5.0	3.6	89.8	124.4	310.4	186.9	102.3	50.5	685.6	58.2	2.3	1,619.0
1993	0.0	0.0	0.0	0.0	219.4	53.6	100.5	52.5	185.5	623.4	541.4	365.4	2,141.7
1994	0.0	0.0	10.5	46.0	274.0	129.7	95.3	38.6	311.6	223.0	22.5	92.9	1,244.1
1995	0.0	0.0	53.2	0.0	244.4	82.6	167.7	135.7	248.8	406.8	172.2	71.7	1,583.1
1996	0.0	0.0	0.0	11.0	107.5	57.6	72.9	175.4	399.2	346.3	475.4	178.3	1,823.6
1997	0.0	22.5	8.0	177.3	128.7	5.6	99.0	75.6	198.1	102.8	194.8	0.0	1,012.4
1998	0.0	0.0	0.0	39.6	74.3	107.9	122.4	92.5	181.0	274.1	479.3	416.8	1,787.9
1999	43.7	0.0	0.0	192.0	284.2	217.4	140.4	111.7	183.5	319.2	450.2	387.7	2,330.0
2000	0.0	0.0	6.5	89.8	117.7	263.4	101.2	255.7	167.3	547.0	479.9	207.5	2,236.0
2001	0.0	7.8	41.9	18.6	154.7	77.1	28.9	337.4	172.6	242.7	176.5	88.4	1,346.6
2002	0.0	0.0	25.5	72.3	81.4	211.9	19.4	315.7	181.0	203.3	379.4	96.4	1,586.3
2003	1.2	2.8	0.0	29.5	197.9	132.0	93.3	169.3	166.7	288.4	482.6	75.7	1,639.4
2004	16.0	0.0	2.5	138.8	88.7	181.9	262.2	84.1	81.4	52.1	122.9	30.6	1,061.2
2005	0.0	0.0	0.0	58.8	167.8	88.7	119.9	241.3	352.0	371.6	289.6	466.8	2,156.5
2006	21.5	15.7	38.0	59.0	313.1	170.2	112.2	122.6	295.6	239.9	38.4	80.2	1,506.4
2007	33.3	0.0	45.2	5.9	155.2	146.3	127.3	338.3	350.5	299.6	295.6	30.7	1,827.9
2008	79.1	18.3	8.5	22.0	304.2	61.9	160.0	40.2	131.0	258.1	431.2	238.9	1,753.4
2009	33.8	5.7	30.6	160.1	125.7	53.0	248.5	226.5	301.0	115.4	283.5	7.3	1,591.1
2010	116.0	0.0	4.8	54.5	35.9	152.0	210.3	223.1	119.7	383.1	827.8	129.8	2,257.0
2011	25.3	0.0	54.5	80.1	208.7	147.2	146.4	311.2	228.9	311.4	94.4	97.3	1,705.4
2012	38.9	12.6	70.1	220.7	156.6	59.0	130.9	84.7	465.3	278.8	110.6	31.8	1,660.0
2013	20.7	49.0	30.6	24.1	233.3	239.3	82.3	135.6	421.1	122.1	373.8	0.0	1,731.9
2014	1.2	0.0	0.1	107.9	119.4	135.5	199.7	230.5	158.8	111.2	38.7	156.8	1,259.8
2015	9.4	6.2	0.7	1.2	151.3	77.0	106.3	219.8	191.7	32.2	329.2	57.1	1,182.1
2016	1.5	13.5	0.0	1.0	185.8	296.2	206.9	102.6	189.9	203.3	483.9	745.9	2,430.5
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	13.8	5.1	19.5	60.4	155.0	130.0	124.0	149.6	226.5	261.3	293.6	139.7	1,578.4
Max	116.0	49.0	88.3	220.7	313.1	310.4	262.2	338.3	465.3	685.6	827.8	745.9	2,430.5

Legend: ND=No Data, IC=Incomplete Data

Station:	Ea Soup												ID:	RDL17	Longitude:	107.8833
Province:	Dak Lak												Latitude:	13.06667	Unit:	mm
Month	1	2	3	4	5	6	7	8	9	10	11	12	13			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1979	0.0	0.0	0.0	0.0	153.1	472.9	203.4	283.3	146.4	95.2	0.6	0.2	1,355.1			
1980	0.0	0.0	22.0	33.6	229.0	239.0	217.4	283.0	337.0	267.0	128.0	0.0	1,756.0			
1981	0.0	15.1	4.3	154.5	214.0	341.7	181.3	0.0	0.0	0.0	0.0	0.0	910.9			
1982	0.0	0.0	4.8	137.4	0.0	391.8	95.6	185.4	216.4	160.1	9.7	0.0	1,201.2			
1983	0.0	0.0	5.0	0.0	50.0	171.4	135.5	294.0	222.8	265.8	11.7	0.0	1,156.2			
1984	0.0	0.0	51.7	90.5	153.1	309.7	204.7	558.1	273.4	312.3	125.2	0.0	2,078.7			
1985	0.0	0.0	0.0	234.5	70.5	251.5	317.5	179.0	501.2	329.5	139.9	0.3	2,023.9			
1986	0.0	0.0	14.4	1.2	310.0	152.5	321.8	0.0	0.0	220.5	0.0	0.0	1,020.4			
1987	0.0	0.0	0.0	1.1	209.9	237.4	420.7	281.2	340.2	30.1	120.5	0.0	1,641.1			
1988	0.0	0.0	19.6	144.9	197.8	232.9	156.7	120.1	102.0	242.9	40.0	2.0	1,258.9			
1989	0.0	1.2	50.5	95.8	319.8	147.2	352.0	298.3	283.5	92.3	4.5	0.0	1,645.1			
1990	0.0	0.0	4.1	110.1	265.0	463.8	235.5	415.2	324.2	265.9	138.2	0.4	2,222.4			
1991	0.0	0.0	26.8	8.5	147.3	245.0	250.9	233.7	282.8	153.4	18.8	0.0	1,367.2			
1992	0.0	0.0	0.0	13.7	93.9	247.4	179.3	308.1	154.5	283.9	0.0	0.0	1,280.8			
1993	0.0	0.0	27.4	13.0	153.1	120.2	244.3	227.6	339.7	360.5	80.9	22.3	1,589.0			
1994	0.0	0.0	3.5	47.2	208.6	123.1	265.9	125.4	232.3	85.5	0.0	7.7	1,099.2			
1995	0.0	0.0	47.1	0.0	149.8	130.9	190.1	176.0	197.7	272.2	47.0	0.0	1,210.8			
1996	0.0	0.0	24.0	167.0	280.3	275.0	172.8	237.1	235.2	182.4	102.2	0.0	1,676.0			
1997	0.0	0.0	33.5	67.2	113.4	150.3	291.5	423.9	289.8	59.9	19.1	0.0	1,448.6			
1998	0.0	0.0	0.0	52.5	122.6	134.6	109.6	152.4	193.3	231.6	316.4	67.5	1,380.5			
1999	0.0	0.0	87.6	112.9	254.1	118.0	71.1	167.9	173.7	134.7	110.2	17.0	1,247.2			
2000	0.0	23.0	25.0	180.2	261.4	270.6	179.8	507.0	209.1	277.1	49.8	0.0	1,983.0			
2001	0.0	0.0	61.8	5.0	205.8	214.0	214.2	512.7	182.1	169.9	40.4	0.0	1,605.9			
2002	0.0	0.0	49.5	17.1	148.1	158.9	143.0	381.1	331.7	56.0	29.2	0.0	1,314.6			
2003	0.0	0.0	0.0	60.7	249.6	118.9	226.2	236.0	266.2	46.9	104.5	0.0	1,309.0			
2004	0.0	0.0	42.7	30.6	95.1	325.4	208.4	335.2	102.7	2.8	0.1	0.0	1,143.0			
2005	0.0	0.0	0.9	100.6	249.2	211.5	306.4	319.7	385.3	63.6	21.7	17.2	1,676.1			
2006	0.0	0.0	12.4	162.7	138.8	78.8	221.1	453.0	484.5	93.9	11.4	0.0	1,656.6			
2007	0.0	0.0	34.3	60.0	173.9	321.8	237.1	395.4	325.3	183.4	98.5	0.0	1,829.7			
2008	0.0	0.0	0.0	8.8	210.6	60.3	105.1	201.3	257.1	61.4	71.0	3.8	979.4			
2009	0.7	3.2	28.9	79.1	239.8	230.5	371.4	321.4	504.8	371.2	48.7	0.0	2,199.7			
2010	2.2	0.0	36.0	12.6	189.7	210.5	285.4	241.5	237.0	281.9	120.5	3.7	1,621.0			
2011	0.0	0.0	4.0	72.4	378.1	325.5	272.0	193.5	210.2	249.2	113.3	6.4	1,824.6			
2012	1.4	0.0	20.8	175.7	320.6	105.2	169.8	181.6	476.3	346.7	11.5	0.0	1,809.6			
2013	0.0	0.0	4.0	72.4	378.1	325.5	272.0	193.5	210.2	249.2	113.3	6.4	1,824.6			
2014	1.4	0.0	20.8	132.5	320.6	105.2	169.8	181.6	476.3	476.3	11.5	0.0	1,896.0			
2015	0.2	0.3	15.2	84.4	222.3	272.5	311.2	304.6	427.4	244.9	56.0	0.6	1,939.6			
2016	24.6	0.0	0.0	3.1	204.8	389.5	157.4	228.5	314.3	120.5	98.8	47.9	1,589.4			
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Average	0.8	1.1	20.6	72.2	202.2	228.4	222.8	266.8	269.6	193.2	63.5	5.4	1,546.6			
Max	24.6	23.0	87.6	234.5	378.1	472.9	420.7	558.1	504.8	476.3	316.4	67.5	2,222.4			

Legend: ND=No Data, IC=Incomplete Data

Station: Krong Buk		ID: RDL18											Longitude: 108.39987	
Province: Dak Lak		Latitude: 12.768128											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	1.5	0.6	0.3	9.6	70.7	58.3	210.9	132.4	426.4	39.4	154.9	1.6	1,106.6	
1978	2.4	2.1	107.7	49.3	115.0	192.7	145.8	177.3	237.9	133.3	163.8	48.5	1,375.8	
1979	7.1	0.3	15.4	94.6	77.6	254.8	146.1	139.9	175.1	364.6	148.2	25.1	1,448.8	
1980	3.4	0.1	5.0	79.7	254.8	112.8	195.2	271.3	296.1	259.8	214.0	11.5	1,703.7	
1981	0.8	0.0	0.0	87.7	205.2	174.9	134.9	174.5	187.2	516.0	195.4	109.7	1,786.3	
1982	3.4	0.0	25.8	137.7	129.3	191.1	84.4	63.3	244.0	174.7	39.0	4.8	1,097.5	
1983	0.0	0.0	6.0	32.6	243.0	190.7	60.3	373.8	271.3	382.5	9.2	25.2	1,594.6	
1984	7.0	0.0	1.2	65.4	238.1	103.6	159.6	167.1	239.5	200.1	181.9	16.6	1,380.1	
1985	7.9	0.4	40.4	201.2	92.2	150.8	180.8	44.8	308.3	125.1	171.1	33.0	1,356.0	
1986	0.0	3.3	167.2	1.6	130.8	49.8	145.9	239.4	295.9	200.1	118.2	156.9	1,509.1	
1987	0.0	1.5	93.6	12.7	175.8	171.6	138.8	166.8	334.2	48.7	369.2	5.1	1,518.0	
1988	1.3	1.2	1.5	27.2	40.6	127.8	159.8	163.7	268.6	292.1	151.9	18.0	1,253.7	
1989	9.2	15.5	77.1	33.1	310.2	101.7	158.0	139.5	112.2	127.2	63.9	0.1	1,147.7	
1990	0.0	11.5	0.0	70.5	141.1	239.9	78.4	234.1	129.3	212.6	245.7	46.3	1,409.4	
1991	0.0	0.0	60.5	49.1	67.4	119.5	196.4	120.6	262.2	138.8	57.2	13.1	1,084.8	
1992	21.8	12.4	63.4	45.0	208.2	507.2	187.9	247.3	55.1	300.9	36.2	14.3	1,699.7	
1993	0.0	0.0	86.6	48.6	204.9	129.8	58.0	98.1	105.7	533.8	283.0	161.6	1,710.1	
1994	0.8	0.0	24.3	176.1	346.6	133.0	143.7	73.8	119.5	128.1	9.2	22.9	1,178.0	
1995	2.7	0.1	75.1	17.2	162.1	158.9	134.9	146.1	334.9	288.0	87.5	25.0	1,432.5	
1996	0.1	20.2	5.0	133.0	205.1	206.1	147.4	171.9	329.6	239.3	213.2	91.1	1,762.0	
1997	0.0	38.5	5.7	292.3	207.3	46.7	142.9	230.7	221.3	132.4	94.9	9.2	1,421.9	
1998	10.5	12.7	0.0	46.9	76.0	46.0	291.7	84.8	109.9	263.8	423.7	248.2	1,614.2	
1999	39.6	3.0	3.4	248.8	461.3	112.8	111.0	250.1	166.9	269.0	340.8	174.0	2,180.7	
2000	10.4	4.2	28.5	103.8	209.3	231.5	79.2	134.5	155.6	388.3	286.2	90.5	1,722.0	
2001	0.3	3.1	65.1	5.0	175.7	107.7	26.7	281.2	180.7	98.8	73.7	77.7	1,095.7	
2002	0.8	0.3	0.0	105.3	126.3	150.9	30.5	238.7	118.9	70.7	219.7	27.8	1,089.9	
2003	0.1	0.0	0.0	33.3	249.6	132.2	112.4	156.5	165.8	159.6	349.4	21.2	1,380.1	
2004	2.9	0.0	1.6	91.8	248.9	171.4	222.3	164.5	154.0	33.3	53.3	11.7	1,155.7	
2005	0.0	0.0	0.0	85.0	147.0	58.6	116.4	153.9	396.0	252.9	178.4	256.7	1,644.9	
2006	7.4	5.0	27.6	149.9	187.8	189.3	146.4	245.8	325.9	186.1	29.5	22.9	1,523.6	
2007	11.3	0.0	26.5	48.2	257.8	82.0	151.0	473.3	267.8	181.4	234.1	9.8	1,743.2	
2008	33.1	10.9	1.8	20.6	300.7	130.8	112.8	103.3	284.3	263.7	307.8	94.5	1,664.3	
2009	13.3	9.5	5.8	124.0	177.9	86.0	243.9	310.1	298.6	218.2	183.9	3.2	1,674.4	
2010	56.9	0.0	3.5	87.1	63.3	176.5	219.4	142.7	235.9	233.0	502.2	61.8	1,782.3	
2011	0.3	0.0	14.7	39.9	154.8	132.6	162.1	287.7	217.8	146.2	61.7	34.1	1,251.9	
2012	10.7	1.8	49.7	163.4	87.6	26.5	73.1	56.7	272.7	272.7	85.2	5.6	1,105.7	
2013	7.4	12.4	8.8	57.8	217.3	230.7	77.3	149.5	337.1	71.4	220.1	0.0	1,389.8	
2014	1.2	0.0	0.0	37.4	162.9	219.4	212.6	366.9	85.7	62.4	24.8	54.1	1,227.4	
2015	5.0	2.5	0.0	0.0	248.6	69.5	121.2	310.7	182.5	113.4	208.9	29.5	1,291.8	
2016	3.6	4.0	0.0	0.2	149.2	243.8	68.1	135.6	234.5	171.1	316.4	375.0	1,701.5	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	7.1	4.4	27.5	77.8	183.2	150.5	139.7	190.6	228.6	207.3	177.7	60.9	1,455.4	
Max.	56.9	38.5	167.2	292.3	461.3	507.2	291.7	473.3	426.4	533.8	502.2	375.0	2,180.7	

Legend: ND=No Data, IC=Incomplete Data

Station: Dak Nong		ID: RDN01											Longitude: 107.6833	
Province: Dak Nong		Latitude: 12											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	143.0	100.4	182.2	352.0	274.5	450.5	ND	ND	ND	IC	
1978	26.2	5.3	126.3	165.5	301.9	203.2	407.9	751.3	326.3	303.0	59.4	0.0	2,676.3	
1979	2.9	0.4	141.4	179.0	267.1	501.1	482.1	391.6	248.6	125.0	26.5	0.3	2,366.0	
1980	70.1	3.3	46.8	193.4	270.7	361.0	289.9	293.7	444.9	332.4	138.7	0.4	2,445.3	
1981	6.1	32.4	38.2	179.5	407.4	487.9	263.2	518.4	276.2	232.8	74.3	11.3	2,527.7	
1982	0.9	63.9	45.5	136.4	260.2	366.1	392.1	337.4	470.1	213.6	182.1	2.3	2,470.6	
1983	19.7	1.6	28.3	164.4	133.9	333.3	255.2	571.1	390.4	414.3	36.3	9.1	2,357.6	
1984	4.0	11.8	8.8	139.3	178.1	404.3	336.9	728.1	347.1	260.3	22.2	6.0	2,446.9	
1985	21.8	64.3	90.7	246.6	197.3	363.0	254.3	330.1	523.6	129.2	81.7	6.2	2,308.8	
1986	0.0	14.5	153.5	128.8	260.0	197.2	340.3	555.6	394.2	316.4	20.5	26.8	2,407.8	
1987	0.0	0.0	23.3	33.7	109.5	356.5	344.9	530.3	420.0	187.1	174.1	0.5	2,179.9	
1988	0.7	16.3	62.6	217.4	220.9	333.1	301.7	147.2	341.4	242.7	79.4	0.1	1,963.5	
1989	6.2	0.0	87.8	180.2	209.4	277.1	280.2	375.3	331.5	237.1	6.8	39.3	2,030.9	
1990	1.6	104.0	177.7	31.0	202.4	533.8	413.6	502.5	420.0	187.1	174.1	0.5	2,748.3	
1991	22.8	0.2	17.6	101.4	277.6	224.0	476.8	442.9	436.3	247.0	3.4	5.7	2,255.7	
1992	2.7	61.6	51.0	180.9	217.6	499.7	306.9	593.5	436.7	245.4	1.2	0.0	2,597.2	
1993	53.6	1.1	111.5	102.4	253.9	507.8	514.1	432.5	268.6	521.9	57.2	36.5	2,861.1	
1994	0.2	80.5	84.5	220.7	342.4	234.1	528.9	317.9	453.6	169.5	7.6	62.0	2,501.9	
1995	3.8	11.9	63.4	31.2	220.1	303.6	277.9	337.9	412.9	259.0	21.5	70.7	2,013.9	
1996	2.1	41.6	196.3	290.9	198.6	202.0	392.5	235.7	622.1	294.6	168.4	6.8	2,651.6	
1997	0.0	283.8	81.7	242.9	207.5	178.4	527.6	395.2	509.2	220.0	47.2	5.4	2,698.9	
1998	2.3	10.8	7.9	57.1	253.7	182.2	317.0	413.8	363.9	219.9	271.6	103.0	2,203.2	
1999	1.6	16.4	212.9	558.9	548.9	462.5	807.9	427.4	280.0	298.5	103.5	53.5	3,772.0	
2000	26.1	161.7	139.4	277.8	219.8	382.3	410.5	518.2	374.8	482.6	44.5	43.8	3,081.5	
2001	47.3	7.0	152.2	147.1	330.9	491.5	429.2	618.6	178.0	368.6	177.6	9.1	2,957.1	
2002	19.5	0.0	136.0	76.0	211.9	304.0	442.3	660.9	478.2	243.7	71.8	67.2	2,711.5	
2003	0.1	17.4	98.6	51.0	523.4	267.4	468.2	384.7	545.6	184.6	46.8	1.0	2,588.8	
2004	14.3	8.6	134.1	198.5	491.0	567.2	312.1	673.9	250.9	51.7	0.8	1.0	2,704.1	
2005	0.0	14.8	193.9	119.9	238.2	133.7	457.3	440.8	540.5	119.0	95.5	8.6	2,362.2	
2006	103.1	29.7	193.1	170.8	273.7	201.9	521.8	747.2	594.5	437.6	77.0	0.3	3,350.7	
2007	7.1	66.1	84.1	205.2	229.9	257.1	518.0	573.2	466.1	338.7	82.6	0.0	2,828.1	
2008	0.2	48.6	112.2	202.7	402.0	149.9	214.3	322.5	335.6	109.5	104.3	14.7	2,016.5	
2009	0.0	40.1	170.6	343.8	380.0	251.3	484.0	628.5	716.3	224.3	25.8	63.2	3,327.9	
2010	32.3	0.0	53.4	115.0	215.6	92.1	309.5	238.1	258.3	399.2	50.1	13.7	1,777.3	
2011	0.1	6.4	35.9	186.5	210.1	363.5	405.6	293.5	407.9	282.7	63.2	2.8	2,258.2	
2012	63.7	65.6	161.5	307.4	182.3	178.5	349.0	425.5	650.4	122.1	149.4	0.0	2,655.4	
2013	3.0	0.5	120.3	142.4	154.9	410.9	307.0	341.1	420.1	149.4	100.2	24.4	2,174.2	
2014	0.0	0.3	117.9	265.8	243.5	438.0	385.9	246.2	345.9	124.0	41.8	44.6	2,253.9	
2015	0.6	12.0	105.5	55.7	446.3	268.7	237.6	286.2	291.6	207.3	100.5	11.6	2,023.6	
2016	61.1	0.3	25.9	86.4	283.8	412.1	280.7	224.3	238.5	278.1	79.3	32.9	2,003.4	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	15.7	32.6	97.3	171.9	266.9	321.6	384.9	438.2	406.5	250.8	78.7	20.1	2,501.5	
Max	103.1	283.8	212.9	558.9	548.9	567.2	807.9	751.3	716.3	521.9	271.6	103.0	3,772.0	

Legend: ND=No Data, IC=Incomplete Data

Station: Dak Mil		ID: RDN02											Longitude: 107.6167	
Province: Dak Nong		Latitude: 12.45											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	0.0	0.0	106.0	227.0	251.0	189.2	449.3	303.1	360.4	230.8	90.3	0.0	2,207.1	
1979	0.0	0.0	78.6	200.4	109.9	372.2	196.3	119.4	178.4	199.0	50.2	7.6	1,512.0	
1980	0.0	0.0	0.0	24.5	274.9	224.8	138.3	ND	ND	ND	ND	ND	IC	
1981	0.0	5.8	37.9	144.5	279.7	276.7	320.4	183.4	211.2	398.5	81.5	34.2	1,973.8	
1982	0.0	0.0	4.0	95.0	273.3	144.1	102.4	124.6	282.8	254.1	13.0	0.0	1,293.3	
1983	1.0	21.3	33.1	13.0	232.4	166.6	228.4	328.0	371.4	296.3	50.0	0.0	1,741.5	
1984	0.0	0.0	72.0	286.0	152.8	221.9	264.5	211.6	199.3	202.7	124.6	0.0	1,735.4	
1985	0.0	30.0	25.0	352.5	170.6	96.4	237.6	131.1	244.2	171.8	96.0	11.4	1,566.6	
1986	0.0	4.5	38.5	63.6	107.8	186.6	365.8	466.6	266.4	233.4	54.8	0.0	1,788.0	
1987	0.0	0.0	39.0	36.0	138.7	177.5	254.8	184.4	274.0	128.8	254.7	0.0	1,487.9	
1988	0.0	0.0	0.2	167.2	268.7	104.5	208.7	269.4	348.9	290.3	81.5	1.5	1,740.9	
1989	0.1	0.0	0.2	99.7	335.6	183.7	299.5	271.2	227.1	124.7	93.4	0.0	1,635.2	
1990	0.0	24.1	1.4	112.4	158.4	354.5	166.7	287.2	243.2	131.6	151.9	11.6	1,643.0	
1991	0.0	0.0	0.3	49.5	215.3	169.6	152.7	173.6	382.8	72.1	11.2	2.4	1,229.5	
1992	0.0	3.2	15.3	139.7	160.4	395.6	276.1	271.5	281.8	299.9	5.6	1.0	1,850.1	
1993	0.0	0.0	46.3	104.2	358.7	162.1	356.2	168.7	330.2	348.9	80.1	93.4	2,048.8	
1994	0.0	0.9	29.1	223.4	250.7	153.1	162.1	166.7	205.0	191.5	8.7	35.1	1,426.3	
1995	0.0	7.1	18.9	37.5	286.3	409.1	149.5	340.7	268.9	371.4	20.4	11.3	1,921.1	
1996	0.3	6.2	63.9	195.8	450.7	319.1	372.3	277.7	470.6	387.8	177.4	25.4	2,747.2	
1997	0.0	7.0	58.0	118.8	270.2	196.2	287.9	175.1	239.5	149.7	39.9	0.8	1,543.1	
1998	0.0	27.0	0.0	154.0	146.1	139.5	222.0	373.6	183.2	385.0	420.2	169.3	2,219.9	
1999	7.2	0.0	130.4	291.4	227.1	155.5	152.8	388.8	323.9	307.0	156.1	37.4	2,177.6	
2000	0.0	7.0	0.6	366.2	199.0	363.6	219.9	366.1	278.6	386.5	61.0	76.2	2,324.7	
2001	12.6	1.4	84.1	59.6	168.4	302.6	74.0	543.4	177.7	287.7	0.0	9.6	1,721.1	
2002	0.0	0.0	82.6	34.5	86.9	182.8	82.9	432.5	192.8	191.5	89.0	12.9	1,388.4	
2003	0.0	0.0	55.2	50.6	439.9	221.9	338.3	180.8	331.3	82.1	89.3	1.9	1,791.3	
2004	0.0	0.0	4.8	87.7	219.3	271.6	238.6	258.8	177.1	24.9	13.2	2.1	1,298.1	
2005	0.0	0.0	3.5	129.9	190.5	186.9	255.9	155.7	290.3	85.5	43.1	87.2	1,428.5	
2006	0.7	0.0	89.7	142.4	251.6	239.0	125.4	282.9	257.5	157.4	96.3	8.0	1,650.9	
2007	3.6	0.0	135.6	184.3	320.2	243.0	326.4	370.9	400.5	212.6	141.9	0.0	2,339.0	
2008	12.1	3.3	7.4	35.6	345.1	203.2	354.0	214.6	222.5	200.4	195.4	18.2	1,811.8	
2009	7.8	31.8	78.9	289.6	407.8	95.4	239.3	168.7	377.8	416.2	41.0	0.0	2,154.3	
2010	51.3	11.8	0.0	136.7	237.3	373.3	390.4	176.4	373.0	181.5	148.1	9.6	2,089.4	
2011	0.0	0.0	72.4	86.1	284.2	240.1	234.3	202.1	214.0	380.2	85.0	7.2	1,805.6	
2012	12.8	17.1	73.8	314.1	294.9	80.5	219.5	168.9	369.7	218.0	17.1	0.5	1,786.9	
2013	0.7	0.7	22.4	324.1	268.7	333.9	206.1	101.7	279.8	222.9	86.9	2.9	1,850.8	
2014	0.0	0.0	18.0	445.9	216.1	185.0	304.7	404.2	319.8	164.7	3.8	8.7	2,070.9	
2015	0.0	1.8	0.0	73.0	285.3	300.0	116.8	235.6	263.8	159.1	89.6	7.1	1,532.1	
2016	5.4	11.6	0.0	53.9	158.2	289.2	152.5	177.4	232.2	288.5	140.5	96.4	1,605.8	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	3.0	5.7	39.2	152.6	243.4	228.5	237.0	254.1	280.3	232.5	89.5	20.8	1,793.1	
Max	51.3	31.8	135.6	445.9	450.7	409.1	449.3	543.4	470.6	416.2	420.2	169.3	2,747.2	

Legend: ND=No Data, IC=Incomplete Data

Station: Duc Xuyen		ID: RDN03											Longitude: 107.9833	
Province: Dak Nong		Latitude: 12.28333											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	0.0	0.0	33.4	157.1	268.6	162.0	292.5	367.4	242.7	255.2	94.2	1.0	1,874.1	
1979	0.0	0.0	16.8	52.4	145.9	333.8	262.1	160.0	200.1	220.9	66.2	7.4	1,465.6	
1980	22.7	0.0	13.5	171.0	297.4	294.7	243.9	343.0	447.0	315.1	142.5	3.0	2,293.8	
1981	0.0	0.0	1.1	100.4	273.7	400.9	158.2	292.3	150.2	440.9	172.4	16.1	2,006.2	
1982	0.0	0.0	14.9	169.6	285.3	327.5	157.0	137.4	0.0	390.2	191.3	58.6	1,731.8	
1983	0.0	0.0	5.4	39.2	179.1	164.6	150.2	293.3	353.0	285.6	21.9	1.2	1,493.5	
1984	0.0	0.2	47.9	117.7	267.6	355.6	259.1	323.8	278.4	227.9	72.3	0.0	1,950.5	
1985	0.0	6.1	16.6	265.2	199.4	139.2	193.8	164.1	279.3	168.4	108.2	3.0	1,543.3	
1986	0.0	13.6	21.7	37.1	106.4	323.0	387.1	493.4	313.7	118.3	85.6	68.6	1,968.5	
1987	0.0	0.0	39.0	8.5	326.2	331.3	366.4	244.8	406.7	66.1	215.3	0.0	2,004.3	
1988	0.0	3.9	0.0	210.4	270.7	189.3	186.1	387.2	283.5	401.6	99.6	0.0	2,032.3	
1989	0.0	0.0	94.2	135.0	247.4	321.8	285.7	449.3	254.5	126.2	1.7	0.0	1,915.8	
1990	0.0	0.0	0.0	153.7	202.1	543.9	421.6	340.4	192.9	155.8	165.0	2.7	2,178.1	
1991	0.0	0.0	20.8	18.1	171.3	243.2	189.3	262.9	342.9	129.9	4.6	0.0	1,383.0	
1992	2.2	0.0	51.0	83.3	372.4	396.0	529.1	431.0	215.1	316.8	3.9	1.2	2,402.0	
1993	0.0	0.0	87.1	54.2	237.1	174.0	309.3	286.0	327.8	377.5	88.0	100.0	2,041.0	
1994	0.0	11.3	0.0	185.8	174.9	268.7	197.8	267.7	415.3	173.5	0.2	20.6	1,715.8	
1995	0.0	2.8	73.5	6.8	136.2	237.2	337.3	332.8	292.6	289.2	7.0	10.1	1,725.5	
1996	0.0	0.0	22.0	105.7	363.2	313.7	292.7	235.8	291.7	288.8	119.4	26.9	2,059.9	
1997	0.0	58.9	7.7	30.9	336.9	211.2	418.3	254.2	484.5	85.7	63.1	0.0	1,951.4	
1998	0.0	23.8	0.0	104.9	152.0	141.5	224.7	289.6	315.6	309.4	447.1	117.8	2,126.4	
1999	1.5	0.0	39.4	363.6	361.9	294.7	269.8	340.9	303.1	179.7	146.5	70.7	2,371.8	
2000	0.1	1.7	3.1	146.6	310.0	354.7	238.1	296.6	280.5	477.5	110.1	33.6	2,252.6	
2001	0.0	0.0	34.5	57.2	237.4	343.5	249.1	558.3	303.9	183.3	89.2	6.0	2,062.4	
2002	0.0	0.0	41.2	50.5	129.1	351.7	110.5	413.3	474.5	167.0	59.8	52.8	1,850.4	
2003	0.0	0.0	0.0	23.7	250.2	225.4	305.5	163.8	583.1	60.1	77.8	2.6	1,692.2	
2004	0.0	0.0	0.0	98.8	149.0	295.7	386.4	335.3	65.1	18.7	1.8	8.4	1,359.2	
2005	0.0	7.6	1.8	79.5	208.8	339.4	133.5	222.1	434.7	106.2	19.9	53.8	1,607.3	
2006	0.5	0.0	11.0	59.7	319.4	240.1	191.2	351.7	284.0	128.5	6.1	11.8	1,604.0	
2007	0.0	0.5	11.1	118.6	284.3	315.1	409.9	448.0	430.9	201.7	88.4	0.0	2,308.5	
2008	4.4	4.5	28.2	37.9	335.8	410.5	304.3	298.7	200.9	144.3	118.6	11.4	1,899.5	
2009	0.0	20.8	67.8	336.7	425.6	253.2	263.3	289.2	315.6	358.2	32.1	0.0	2,362.5	
2010	24.0	0.0	0.4	58.2	195.1	261.2	341.6	325.7	394.4	177.1	84.6	18.7	1,881.0	
2011	0.0	0.0	4.1	77.8	275.5	277.5	261.8	243.8	355.8	281.5	91.0	17.8	1,886.6	
2012	3.0	0.0	49.3	231.9	253.7	128.5	281.3	101.5	378.3	164.6	33.3	0.0	1,625.4	
2013	1.8	3.5	23.0	156.2	211.5	275.9	253.8	176.8	404.7	169.1	79.0	0.0	1,755.3	
2014	0.0	0.0	0.0	151.6	147.1	326.0	478.3	450.5	335.0	73.9	6.6	38.1	2,007.1	
2015	0.0	1.3	0.0	0.0	113.1	384.0	172.3	283.4	190.6	90.1	35.6	11.3	1,281.7	
2016	21.1	0.0	0.0	3.2	232.9	262.1	282.3	228.2	284.1	241.6	143.1	66.1	1,764.7	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	2.1	4.1	22.6	109.2	242.4	287.5	276.8	304.7	310.4	214.5	87.0	21.6	1,882.9	
Max	24.0	58.9	94.2	363.6	425.6	543.9	529.1	558.3	583.1	477.5	447.1	117.8	2,402.0	

Legend: ND=No Data, IC=Incomplete Data

Station: Cau 14		ID: RDN04											Longitude: 107.9049	
Province: Dak Lak		Latitude: 12.60182											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	0.0	0.0	54.1	139.4	206.9	275.4	407.5	288.1	334.6	211.1	88.4	7.6	2,013.1	
1979	0.0	0.0	6.9	12.9	400.9	334.6	222.5	311.7	135.1	134.7	89.8	13.5	1,662.6	
1980	0.0	3.0	0.8	88.5	268.4	191.5	205.6	153.4	256.3	282.4	128.9	3.2	1,582.0	
1981	0.0	17.0	0.0	121.2	393.8	323.8	342.5	326.6	265.8	397.8	85.7	16.6	2,290.8	
1982	0.0	0.0	5.7	48.0	233.2	307.4	189.2	260.3	432.8	185.0	38.4	0.0	1,700.0	
1983	11.5	0.0	7.1	8.6	178.0	263.9	153.3	322.0	348.5	432.5	21.6	0.0	1,747.0	
1984	0.0	0.0	22.2	65.5	182.4	250.9	151.9	209.9	192.9	236.8	142.5	4.4	1,459.4	
1985	0.0	1.3	37.3	219.8	203.1	84.3	262.4	221.2	376.4	168.3	148.0	8.8	1,730.9	
1986	0.0	38.4	47.1	15.0	171.6	238.7	208.6	406.6	183.6	171.2	71.9	84.0	1,636.7	
1987	0.0	0.0	21.5	19.6	169.8	322.1	360.7	189.6	370.1	121.9	155.8	0.0	1,731.1	
1988	0.0	0.2	0.0	80.8	320.6	173.3	173.5	246.6	93.6	349.2	52.3	0.3	1,490.4	
1989	0.0	0.0	17.5	98.0	311.3	159.7	214.6	267.2	248.1	211.2	24.0	0.0	1,551.6	
1990	0.0	0.0	16.0	94.8	231.8	394.7	241.8	369.4	420.7	191.5	162.8	0.0	2,123.5	
1991	6.7	0.0	42.8	83.0	206.3	219.8	61.7	241.5	274.3	219.2	8.2	1.0	1,364.5	
1992	30.5	0.1	15.4	66.5	152.6	391.6	165.1	338.5	252.0	262.8	7.0	0.8	1,682.9	
1993	0.0	0.0	34.6	59.7	267.6	215.0	227.4	216.2	264.4	404.4	42.1	37.6	1,769.0	
1994	0.0	10.9	19.7	128.9	375.0	314.5	118.9	163.2	188.4	104.3	0.0	17.7	1,441.5	
1995	0.0	0.0	3.5	14.1	318.4	207.2	203.5	228.1	400.9	315.9	69.8	5.0	1,766.4	
1996	0.0	4.8	7.0	126.2	454.2	304.9	312.8	257.3	301.3	354.0	92.9	2.0	2,217.4	
1997	0.0	15.3	0.4	236.2	209.3	99.5	361.2	205.9	331.2	112.7	30.4	0.0	1,602.1	
1998	0.0	3.7	0.0	73.6	133.8	220.0	215.9	335.8	260.1	340.1	349.3	95.8	2,028.1	
1999	15.8	0.1	61.4	133.2	221.9	184.6	122.6	266.7	203.1	233.5	133.4	52.6	1,628.9	
2000	0.0	0.0	43.8	185.5	297.5	337.9	189.8	280.8	255.2	274.3	91.7	49.9	2,006.4	
2001	4.0	0.0	157.6	26.0	179.7	241.7	171.5	642.0	142.5	159.7	53.6	2.1	1,780.4	
2002	0.0	0.0	124.1	13.0	282.8	207.0	31.8	287.7	290.4	132.7	85.9	0.2	1,455.6	
2003	0.0	0.0	0.0	148.8	304.1	252.6	302.4	276.1	280.0	102.2	156.5	2.7	1,825.4	
2004	0.0	0.0	0.4	10.4	71.9	190.5	260.1	272.9	333.9	19.7	7.8	0.0	1,167.6	
2005	0.0	0.0	0.0	108.4	286.2	159.0	217.7	228.6	624.5	136.6	29.5	57.8	1,848.3	
2006	0.0	0.0	3.5	107.3	241.1	168.4	189.2	332.0	279.9	148.4	3.8	1.8	1,475.4	
2007	0.0	0.0	94.3	43.7	180.7	205.3	245.9	401.3	358.1	149.4	90.5	0.0	1,769.2	
2008	5.7	2.6	9.5	38.2	371.3	211.4	177.4	179.0	321.9	136.8	134.2	13.2	1,601.2	
2009	0.0	1.7	17.8	381.5	392.8	168.2	379.2	180.1	402.7	187.3	30.1	0.0	2,141.4	
2010	21.2	0.0	21.1	41.2	209.1	223.5	273.4	217.1	158.2	100.8	122.7	15.2	1,403.5	
2011	0.0	0.0	10.5	73.1	275.7	289.6	242.8	131.1	289.6	335.8	114.1	6.9	1,769.2	
2012	5.8	0.6	31.7	127.2	293.9	81.3	197.9	207.6	333.3	141.6	16.4	0.0	1,437.3	
2013	0.6	0.0	27.1	134.3	271.1	402.5	277.4	132.8	334.1	163.6	27.7	0.0	1,771.2	
2014	0.0	0.0	0.0	110.7	212.0	370.0	289.0	230.5	250.4	79.7	2.2	11.9	1,556.4	
2015	0.0	0.0	0.0	6.6	81.1	170.4	186.6	216.7	184.1	208.4	23.4	32.5	1,109.8	
2016	90.1	0.0	0.0	0.5	229.3	341.5	183.7	245.5	399.8	172.0	160.1	115.1	1,937.6	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	4.9	2.6	24.7	89.5	251.1	243.5	224.1	263.8	291.6	207.4	79.3	16.9	1,699.4	
Max	90.1	38.4	157.6	381.5	454.2	402.5	407.5	642.0	624.5	432.5	349.3	115.1	2,290.8	

Legend: ND=No Data, IC=Incomplete Data

Station: Bao Loc		ID: RLD01											Longitude 107.8167	
Province: LamDong		Latitude: 11.53333											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	2.6	57.9	140.8	245.4	366.4	379.5	588.9	492.8	292.4	333.6	125.8	47.5	3,073.6	
1980	59.0	29.0	100.3	165.7	211.8	522.1	294.0	404.0	540.0	342.9	217.1	83.3	2,969.2	
1981	90.1	123.3	12.8	189.5	196.2	619.6	202.3	605.5	393.1	335.5	119.3	12.7	2,899.9	
1982	7.2	70.8	109.3	344.7	271.1	306.3	384.7	371.0	487.6	266.8	407.6	4.3	3,031.4	
1983	26.1	48.0	86.5	255.9	95.3	398.3	409.4	400.9	400.5	383.4	319.6	40.1	2,864.0	
1984	69.5	2.2	16.6	165.9	224.6	322.0	216.5	956.9	185.0	199.6	78.3	187.2	2,624.3	
1985	76.6	73.4	61.7	270.9	165.6	508.7	223.1	340.6	347.7	349.0	123.9	172.0	2,713.2	
1986	11.2	41.7	227.0	102.7	338.3	187.3	318.1	741.5	615.4	311.2	189.2	112.3	3,195.9	
1987	17.9	55.7	29.3	98.0	164.0	321.7	415.7	445.2	295.6	333.7	275.7	34.1	2,486.6	
1988	130.5	89.0	113.8	260.1	138.0	280.6	236.1	208.9	358.6	312.3	66.6	0.0	2,194.5	
1989	6.0	0.2	84.0	242.4	373.5	360.0	490.4	361.8	231.3	325.6	72.5	31.0	2,578.7	
1990	2.2	157.0	93.8	84.4	192.7	449.2	256.2	649.1	419.3	255.9	133.4	123.8	2,817.0	
1991	46.0	11.2	29.4	162.8	200.3	199.9	438.2	534.2	430.7	152.8	32.4	171.9	2,409.8	
1992	48.5	3.0	174.7	84.8	363.2	237.3	332.9	504.8	272.9	334.4	101.0	19.6	2,477.1	
1993	16.2	61.0	63.1	87.6	207.9	294.7	468.4	424.2	385.9	512.1	149.7	87.6	2,758.4	
1994	23.9	75.0	74.1	210.3	261.0	247.8	690.0	324.3	0.0	278.2	135.8	144.7	2,465.1	
1995	51.1	27.7	151.2	114.2	182.1	252.5	384.2	493.3	414.5	291.4	143.4	86.8	2,592.4	
1996	60.1	30.8	19.5	434.8	125.7	210.6	304.7	350.2	514.9	181.3	134.6	52.4	2,419.6	
1997	5.1	187.2	94.7	538.3	292.4	245.0	620.7	601.0	263.2	337.9	173.7	24.0	3,383.2	
1998	6.3	57.8	5.4	179.7	347.3	181.5	109.0	266.5	450.2	292.2	430.5	145.9	2,472.3	
1999	117.1	36.4	250.6	371.7	240.3	448.5	566.5	369.6	204.2	340.5	290.5	65.6	3,301.5	
2000	107.8	153.5	323.6	284.9	250.3	305.1	640.8	760.1	602.7	1,097.7	399.8	336.0	5,262.3	
2001	498.5	147.5	231.4	187.7	186.8	549.8	377.1	782.6	286.9	260.8	155.6	8.3	3,673.0	
2002	4.0	5.4	48.2	87.9	152.4	408.3	347.7	898.1	568.2	382.0	155.0	113.9	3,171.1	
2003	7.9	38.5	165.1	177.9	933.9	311.8	453.1	341.2	607.2	356.3	377.6	13.0	3,783.5	
2004	66.0	17.3	197.1	308.3	337.0	424.4	384.5	573.6	292.1	363.5	241.0	7.4	3,212.2	
2005	8.0	70.7	128.8	201.9	190.7	179.9	475.2	573.3	421.4	375.9	197.1	112.9	2,935.8	
2006	74.0	79.3	111.9	281.5	129.3	231.1	534.9	935.5	404.6	388.7	71.8	0.0	3,242.6	
2007	41.0	14.3	304.1	157.5	310.2	327.7	719.5	615.4	397.6	314.6	60.9	3.5	3,266.3	
2008	2.9	56.0	200.8	165.7	418.3	146.3	296.7	327.9	373.9	567.0	169.8	27.2	2,752.5	
2009	10.0	77.4	160.0	181.5	259.5	165.6	419.4	426.4	620.1	277.7	42.9	135.5	2,776.0	
2010	90.3	1.0	90.2	288.4	238.9	209.2	230.6	202.7	191.0	362.7	298.9	84.1	2,288.0	
2011	20.0	13.7	215.3	243.9	223.8	391.1	392.6	218.0	662.3	341.9	169.2	18.0	2,909.8	
2012	126.1	89.4	196.1	264.2	207.4	443.5	355.3	281.1	525.1	159.3	248.9	10.8	2,907.2	
2013	15.2	35.1	248.4	160.8	253.7	440.9	447.0	346.6	457.6	497.6	136.8	38.4	3,078.1	
2014	27.6	69.9	92.6	662.0	214.1	410.1	471.4	220.3	315.8	497.9	311.7	86.5	3,379.9	
2015	3.3	26.2	29.1	162.3	221.7	448.6	492.1	338.0	235.6	288.4	233.0	149.2	2,627.5	
2016	160.8	5.1	23.4	100.3	229.8	309.4	295.0	349.2	363.7	413.3	133.9	146.7	2,530.6	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	56.2	56.3	123.8	224.4	255.7	333.6	402.2	474.6	390.2	353.0	187.5	77.3	2,934.8	
Max.	498.5	187.2	323.6	662.0	933.9	619.6	719.5	956.9	662.3	1,097.7	430.5	336.0	5,262.3	

Station: Da Lat		ID: RLD02											Longitude: 108.45	
Province: Lam Dong		Latitude: 11.95											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	83.3	114.4	224.6	210.7	232.4	425.1	116.0	86.2	0.2	1,492.9	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	0.0	0.0	101.2	128.7	141.3	370.1	381.3	221.5	281.3	234.1	130.0	12.7	2,002.2	
1980	4.0	31.7	16.4	104.7	293.0	268.0	150.3	378.3	201.6	358.2	118.0	9.0	1,933.2	
1981	3.9	40.9	7.1	77.9	103.3	194.6	137.5	242.4	156.3	265.9	101.0	24.3	1,355.1	
1982	0.1	1.2	96.7	381.0	220.1	226.9	123.7	114.5	334.0	127.1	133.2	4.3	1,762.8	
1983	0.0	0.8	18.0	114.4	195.1	205.4	187.0	223.8	357.8	404.9	21.4	20.5	1,749.1	
1984	35.4	0.0	77.8	96.4	178.3	203.5	305.3	379.4	178.5	235.3	45.1	0.9	1,735.9	
1985	0.1	25.7	14.3	453.8	77.6	156.6	270.7	123.1	323.7	370.9	57.0	44.1	1,917.6	
1986	0.0	48.4	11.0	50.5	169.8	103.7	285.8	223.2	453.9	255.3	145.0	89.1	1,835.7	
1987	0.0	4.6	55.2	78.5	224.3	140.8	129.9	345.6	283.3	243.5	111.6	8.4	1,625.7	
1988	17.6	4.4	118.8	236.3	40.5	136.1	425.0	92.4	491.9	157.2	85.6	1.2	1,807.0	
1989	0.1	0.0	152.9	192.4	404.6	230.7	401.4	170.7	251.4	173.1	31.5	6.7	2,015.5	
1990	4.2	49.7	141.9	198.5	186.4	270.8	127.6	454.5	202.7	123.7	176.1	0.4	1,936.5	
1991	0.3	1.2	38.4	148.3	143.1	133.9	260.3	166.5	481.3	310.6	12.0	15.7	1,711.6	
1992	21.1	33.7	60.5	242.0	194.0	413.9	260.0	198.5	48.2	230.3	5.7	4.0	1,711.9	
1993	2.9	2.4	79.3	107.6	118.7	198.2	224.5	104.3	308.7	372.2	104.1	143.4	1,766.3	
1994	4.6	26.8	83.4	84.0	218.7	143.9	251.8	81.5	321.3	303.6	6.6	65.5	1,591.7	
1995	2.9	71.2	101.2	203.5	244.7	175.5	325.8	291.4	221.9	270.6	37.4	6.5	1,952.6	
1996	7.3	0.8	9.7	250.3	282.0	204.7	147.2	229.0	232.0	256.7	149.7	56.0	1,825.4	
1997	5.1	187.2	94.7	541.3	292.4	245.0	620.7	601.0	263.2	337.8	183.7	24.0	3,396.1	
1998	0.8	25.5	4.5	198.7	230.1	270.9	155.1	271.1	216.8	176.2	317.6	130.5	1,997.8	
1999	17.0	0.0	110.9	223.5	415.7	293.4	180.4	291.9	212.2	235.5	114.0	66.8	2,161.3	
2000	21.6	3.2	99.7	237.0	325.6	233.3	210.6	312.9	225.5	425.6	230.0	55.5	2,380.5	
2001	12.3	4.4	143.2	64.6	142.6	196.6	95.4	329.2	221.8	118.8	76.3	25.3	1,430.5	
2002	0.3	1.6	120.1	102.1	122.9	213.0	141.2	396.0	274.7	240.4	146.4	38.1	1,796.8	
2003	0.0	0.5	6.3	54.6	264.1	103.5	258.9	216.3	271.6	273.4	164.7	6.3	1,620.2	
2004	1.9	9.4	147.5	227.2	165.7	330.4	331.4	256.3	120.4	42.0	4.5	1.7	1,638.4	
2005	0.0	19.5	82.7	117.9	175.9	190.6	205.3	264.6	360.8	264.9	91.5	79.8	1,853.5	
2006	25.6	16.4	101.7	89.2	176.4	163.3	165.2	280.9	349.0	308.5	18.6	20.9	1,715.7	
2007	0.1	0.1	98.4	84.7	338.1	146.8	205.9	529.6	393.9	208.1	147.5	1.6	2,154.8	
2008	26.8	35.1	68.0	119.1	219.9	59.5	201.2	210.8	203.5	205.3	175.0	51.6	1,575.8	
2009	3.1	70.5	135.1	248.7	166.7	162.9	219.5	199.7	298.7	265.7	77.6	0.9	1,849.1	
2010	70.5	5.3	68.5	267.0	146.8	247.1	255.0	114.3	196.8	354.6	229.9	62.2	2,018.0	
2011	1.0	0.2	57.9	99.5	258.3	279.6	270.0	262.0	134.1	210.7	51.6	25.1	1,650.0	
2012	19.2	88.7	49.0	280.6	314.8	127.1	215.3	129.4	406.0	155.7	68.9	4.8	1,859.5	
2013	5.0	1.3	126.6	147.8	268.6	356.1	194.2	139.2	389.7	129.5	175.2	2.2	1,935.4	
2014	5.9	1.1	26.4	338.5	325.6	184.2	269.8	284.5	341.5	256.2	14.5	30.8	2,079.0	
2015	0.1	28.1	5.3	157.0	282.2	259.6	285.1	225.2	252.9	334.1	72.2	49.6	1,951.4	
2016	4.7	0.9	4.9	204.0	133.5	226.8	209.4	83.0	498.7	377.7	116.3	173.9	2,033.8	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	8.3	21.6	70.1	180.4	213.2	212.6	238.3	248.0	286.8	249.5	103.4	35.0	1,867.3	
Max.	70.5	187.2	152.9	541.3	415.7	413.9	620.7	601.0	498.7	425.6	317.6	173.9	3,396.1	

Station: Lien Khuong		ID: RLD03											Longitude: 108.38	
Province: Lam Dong		Latitude: 11.75											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	2.6	57.9	140.8	245.4	366.4	379.5	588.9	492.8	292.4	333.6	125.8	47.5	3,073.6	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	9.0	59.6	0.0	65.7	206.2	299.2	149.8	169.9	231.6	401.2	69.1	1.0	1,662.3	
1982	0.0	0.0	130.4	88.7	147.1	122.9	103.2	89.9	334.1	210.9	179.3	0.0	1,406.5	
1983	0.0	0.0	14.3	78.8	350.4	268.0	269.6	217.8	332.1	340.8	108.4	0.3	1,980.5	
1984	0.4	0.0	21.9	202.0	208.0	128.4	286.9	297.5	199.8	247.5	6.7	2.2	1,601.3	
1985	0.0	3.0	0.0	225.3	123.1	123.9	160.8	76.3	388.3	145.6	47.5	11.0	1,304.8	
1986	0.0	11.0	14.7	67.0	134.6	159.3	180.8	209.2	364.3	183.5	190.9	59.8	1,575.1	
1987	0.0	63.0	58.9	84.3	178.9	232.5	121.7	185.5	195.2	244.0	136.4	0.4	1,500.8	
1988	0.0	0.0	92.3	73.5	40.6	217.7	278.9	55.8	485.4	154.8	74.4	0.0	1,473.4	
1989	0.0	0.0	132.5	233.9	440.1	211.1	304.7	161.7	330.2	149.0	5.2	0.0	1,968.4	
1990	0.0	19.2	137.9	120.1	94.3	249.5	105.9	257.6	293.9	72.7	144.9	0.0	1,496.0	
1991	0.0	17.7	25.1	208.7	155.7	115.2	160.3	168.7	390.9	275.7	12.0	0.0	1,530.0	
1992	1.2	13.3	41.9	198.5	233.2	219.3	178.1	205.0	39.9	232.7	0.6	0.8	1,364.5	
1993	27.1	17.1	81.2	143.0	100.3	209.5	188.1	126.0	205.8	212.9	95.0	120.0	1,526.0	
1994	0.0	21.1	1.7	32.1	290.3	223.8	248.5	114.4	275.1	176.6	3.0	76.7	1,463.3	
1995	6.7	92.1	93.0	52.3	207.2	166.0	233.8	239.8	271.9	243.8	56.0	9.0	1,671.6	
1996	0.2	0.0	0.0	318.5	404.6	212.1	105.0	175.7	252.5	239.3	121.7	20.9	1,850.5	
1997	0.0	3.6	92.5	69.1	207.9	166.2	369.2	147.7	375.6	203.1	13.3	0.3	1,648.5	
1998	0.0	14.1	1.0	155.9	272.8	162.7	111.9	165.2	183.6	214.9	330.7	205.6	1,818.4	
1999	8.9	0.0	212.0	239.0	279.2	119.3	60.3	74.5	192.7	209.9	117.9	57.7	1,571.4	
2000	0.4	5.8	50.8	192.1	254.3	248.5	145.5	231.8	179.7	427.8	152.8	56.3	1,945.8	
2001	9.3	18.4	95.5	58.6	162.1	281.4	60.9	219.4	376.8	182.7	64.3	19.0	1,548.4	
2002	0.0	0.0	26.5	116.4	65.2	119.0	100.7	370.5	130.3	275.9	144.7	37.5	1,386.7	
2003	0.0	0.0	1.2	31.5	259.9	114.5	284.6	242.0	358.0	258.7	107.5	3.9	1,661.8	
2004	0.0	0.5	78.4	119.3	249.3	318.6	256.2	180.4	55.7	78.8	2.0	0.3	1,339.5	
2005	0.0	0.1	51.4	73.9	228.4	132.0	212.5	164.4	290.9	329.8	117.8	40.8	1,642.0	
2006	14.6	6.2	51.2	122.7	135.8	224.2	134.1	291.7	368.9	261.2	18.8	0.0	1,629.4	
2007	0.0	0.0	108.7	51.2	287.5	199.4	165.9	309.8	417.3	185.9	104.8	4.8	1,835.3	
2008	7.0	2.2	29.1	16.9	274.4	112.2	155.0	148.8	161.0	115.1	115.4	24.2	1,161.3	
2009	0.2	82.5	55.5	291.7	325.2	68.0	193.5	211.3	357.0	237.8	46.3	0.0	1,869.0	
2010	50.9	0.2	13.2	203.0	113.8	226.2	209.1	76.1	156.4	450.3	199.0	34.3	1,732.5	
2011	6.0	0.0	17.8	96.5	123.3	147.5	205.4	245.9	148.0	190.8	80.2	14.1	1,275.5	
2012	9.4	27.5	61.7	78.0	136.7	130.9	184.4	65.4	287.4	225.2	75.1	1.5	1,283.2	
2013	12.0	0.0	93.8	144.5	184.3	269.4	263.1	101.7	362.2	216.4	184.1	1.8	1,833.3	
2014	0.4	0.0	0.1	272.0	161.0	157.3	214.5	143.9	268.1	334.5	51.8	30.8	1,634.4	
2015	0.0	7.5	0.1	152.6	290.1	116.7	126.7	195.8	284.8	204.6	32.4	70.8	1,482.1	
2016	0.0	0.0	0.0	130.0	238.9	125.6	243.2	95.4	314.4	341.5	85.8	156.1	1,730.9	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	4.5	14.7	54.8	136.6	214.4	188.6	199.0	187.2	274.4	238.1	92.5	30.0	1,634.5	
Max	50.9	92.1	212.0	318.5	440.1	379.5	588.9	492.8	485.4	450.3	330.7	205.6	3,073.6	

Station: Dai Nga		ID: RLD04											Longitude 107.8667	
Province: LamDong		Latitude: 11.53333											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	0.0	0.0	0.0	0.0	0.0	153.3	142.1	153.5	207.6	62.7	161.7	ND	IC	
1978	38.5	6.0	223.1	146.5	199.9	141.4	249.4	554.0	347.8	311.7	201.1	64.0	2,483.4	
1979	7.8	60.6	128.5	194.1	252.3	351.2	590.0	347.1	243.0	391.0	72.6	42.8	2,681.0	
1980	23.4	9.3	54.7	68.1	198.0	263.7	164.6	312.9	346.6	327.4	224.1	29.7	2,022.5	
1981	113.0	10.4	7.3	152.8	200.3	490.2	198.0	410.5	313.3	310.6	63.2	0.2	2,269.8	
1982	7.1	27.6	110.9	135.7	246.7	229.4	240.6	225.4	339.2	236.6	254.2	12.7	2,066.1	
1983	8.0	12.0	26.7	108.6	178.1	380.8	248.3	325.6	327.9	335.4	134.0	145.3	2,230.7	
1984	92.1	0.0	15.5	88.2	274.5	215.8	214.2	761.2	148.8	194.3	106.5	177.1	2,288.2	
1985	46.0	21.1	36.5	275.3	136.0	384.0	221.9	223.5	132.1	319.7	125.1	139.8	2,061.0	
1986	7.4	33.8	108.3	149.7	333.0	172.8	239.7	552.5	436.7	311.1	277.1	45.6	2,667.7	
1987	1.2	53.2	74.9	54.4	106.4	300.7	263.6	287.7	239.6	422.8	233.9	81.6	2,120.0	
1988	20.8	124.4	38.4	108.7	100.9	229.2	198.5	112.7	230.4	215.7	94.9	0.0	1,474.6	
1989	2.0	0.0	115.4	141.9	283.0	284.6	302.4	313.5	243.2	226.8	130.1	7.1	2,050.0	
1990	10.8	96.2	189.9	162.9	182.3	511.9	143.2	516.3	334.0	181.1	173.7	24.8	2,527.1	
1991	51.1	0.5	25.8	248.6	338.4	159.0	441.5	363.5	367.2	227.9	94.9	80.1	2,398.5	
1992	88.0	34.0	101.9	130.8	181.1	354.1	257.2	374.4	300.0	233.9	133.4	39.5	2,228.3	
1993	40.7	7.1	146.6	125.4	227.2	333.7	220.9	219.2	289.7	298.4	292.0	78.0	2,278.9	
1994	14.3	43.0	83.9	112.8	193.1	138.4	435.9	199.1	387.6	329.7	93.8	88.3	2,119.9	
1995	15.1	3.5	66.7	34.4	134.6	144.8	324.4	360.1	292.3	335.8	142.6	37.1	1,891.4	
1996	61.9	10.0	14.0	424.6	139.7	176.3	200.6	321.8	374.8	308.4	168.8	38.7	2,239.6	
1997	3.1	162.6	81.5	276.2	157.1	153.9	440.5	414.5	258.4	196.6	107.1	20.4	2,271.9	
1998	0.0	0.7	20.3	209.0	202.4	219.6	137.7	214.6	273.1	360.4	405.6	119.6	2,163.0	
1999	57.2	27.8	94.5	289.8	167.1	303.0	399.2	281.4	131.7	237.1	220.0	71.9	2,280.7	
2000	46.2	20.7	274.7	219.6	237.6	197.5	310.2	344.7	242.0	393.6	134.9	169.4	2,591.1	
2001	55.1	51.5	204.7	224.1	142.4	353.0	234.1	487.6	196.2	284.7	111.1	5.0	2,349.5	
2002	0.0	0.5	85.0	59.9	79.1	248.9	196.5	572.0	295.7	428.2	251.2	18.3	2,235.3	
2003	80.2	0.0	37.2	202.0	427.9	176.3	348.0	223.4	564.5	431.4	240.0	23.4	2,754.3	
2004	22.5	9.0	149.8	252.4	236.9	360.2	301.3	435.4	205.1	217.5	97.6	15.1	2,302.8	
2005	0.0	3.8	59.2	98.1	166.3	120.1	294.1	467.2	263.8	382.0	193.1	139.8	2,187.5	
2006	6.0	3.0	11.5	23.0	176.3	418.4	554.0	603.8	646.3	294.0	15.2	62.3	2,813.8	
2007	32.5	0.0	254.2	66.9	114.8	268.8	348.9	440.2	454.5	201.2	56.7	13.5	2,252.2	
2008	14.9	49.5	68.8	188.1	271.2	72.1	187.3	365.4	265.8	236.7	181.4	15.5	1,916.7	
2009	18.2	52.2	81.2	100.6	207.1	125.8	358.7	208.6	433.2	196.3	67.0	37.5	1,886.4	
2010	55.0	11.5	59.3	143.2	186.4	153.4	287.5	126.3	176.0	319.0	289.1	80.6	1,887.3	
2011	22.4	0.0	175.9	133.0	302.3	199.7	313.6	285.7	275.9	298.2	197.2	24.9	2,228.8	
2012	70.9	112.8	92.6	185.0	192.2	251.0	319.1	167.1	375.2	152.5	118.0	0.0	2,036.4	
2013	44.0	3.8	82.0	113.2	209.4	294.8	294.5	219.7	412.8	304.2	192.9	24.1	2,195.4	
2014	9.5	46.5	19.2	403.6	187.7	311.1	387.2	306.9	237.3	367.4	151.9	73.0	2,501.3	
2015	3.5	45.3	22.4	95.9	244.5	249.7	352.0	195.5	141.4	349.9	85.9	34.8	1,820.8	
2016	64.7	0.2	61.2	116.2	199.3	263.2	217.0	173.0	193.9	353.3	56.1	140.1	1,838.2	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	31.4	28.9	87.6	156.6	200.3	253.9	289.5	336.7	298.6	289.6	158.7	57.0	2,220.8	
Max.	113.0	162.6	274.7	424.6	427.9	511.9	590.0	761.2	646.3	431.4	405.6	177.1	2,813.8	

Station: Dai Ninh		ID: RLD05											Longitude: 108.3	
Province: LamDong		Latitude: 11.65											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1979	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1982	0.0	26.3	119.9	77.4	195.8	185.2	106.8	36.0	373.5	158.9	158.9	0.2	1,438.9	
1983	0.0	0.0	0.5	0.0	158.4	113.4	220.0	199.1	ND	ND	ND	ND	IC	
1984	0.0	26.3	119.9	77.4	195.8	185.2	106.8	36.0	373.5	158.9	158.9	0.2	1,438.9	
1985	0.0	7.3	0.1	223.6	106.0	118.1	163.6	118.5	356.4	164.3	0.0	0.3	1,258.2	
1986	0.0	0.0	19.6	47.3	150.1	149.3	203.0	254.1	338.9	156.4	155.7	64.7	1,539.1	
1987	0.0	43.1	29.1	27.9	116.7	79.6	93.9	151.4	310.1	252.9	156.3	10.9	1,271.9	
1988	0.0	27.7	18.8	18.6	46.5	143.6	199.3	98.7	318.0	183.7	80.2	0.0	1,135.1	
1989	0.0	0.0	99.5	120.0	275.5	165.5	364.7	227.5	198.5	129.3	11.9	0.1	1,592.5	
1990	0.0	30.4	11.2	86.7	123.8	371.2	85.4	541.7	262.3	162.8	154.3	0.0	1,829.8	
1991	0.0	0.1	27.2	117.1	113.3	111.1	190.4	174.0	266.3	99.3	12.2	0.2	1,111.2	
1992	33.9	0.0	18.0	202.5	141.2	271.0	141.6	174.7	20.3	150.4	0.3	0.0	1,153.9	
1993	44.0	0.0	93.1	55.6	129.1	135.7	235.6	95.3	361.7	235.8	47.1	79.3	1,512.3	
1994	0.0	2.3	75.8	57.7	322.7	181.4	195.9	79.2	201.8	186.3	0.9	38.9	1,342.9	
1995	18.1	17.5	32.6	15.8	158.7	197.1	173.0	158.5	326.0	232.4	46.6	7.6	1,383.9	
1996	0.3	0.0	0.0	70.5	313.6	100.7	120.8	220.7	264.7	160.0	152.5	11.4	1,415.2	
1997	0.0	75.9	34.2	105.2	216.1	170.5	163.5	149.7	345.4	179.7	19.7	0.0	1,459.9	
1998	0.0	0.0	0.0	125.8	202.6	127.8	105.8	157.7	144.5	132.1	340.4	121.5	1,458.2	
1999	10.4	0.0	58.4	262.0	181.2	187.3	128.5	251.6	126.9	225.4	112.8	40.1	1,584.6	
2000	11.4	1.0	97.7	69.8	175.6	98.7	192.7	306.9	153.7	390.6	141.2	50.8	1,690.1	
2001	1.9	0.2	50.5	47.2	141.2	154.6	71.6	227.6	215.7	124.4	46.0	13.0	1,093.9	
2002	0.0	0.0	39.5	16.1	53.4	177.8	28.9	328.5	ND	ND	116.9	15.0	IC	
2003	0.1	0.0	0.2	16.8	168.6	115.7	240.8	106.1	183.2	196.5	106.6	6.0	1,140.6	
2004	0.0	0.0	25.4	128.0	124.5	194.2	155.4	208.6	85.5	154.3	0.3	4.7	1,080.9	
2005	0.0	0.0	11.2	41.0	184.9	99.3	156.2	226.5	197.7	176.3	21.1	34.4	1,148.6	
2006	5.9	13.0	24.9	170.8	117.9	152.2	95.7	248.8	200.7	133.4	12.0	3.4	1,178.7	
2007	0.1	0.0	25.0	110.4	183.5	129.3	89.6	218.3	347.5	127.6	58.8	0.0	1,290.1	
2008	1.7	29.0	33.8	21.2	144.2	13.5	144.4	93.6	122.4	116.4	114.1	0.0	834.3	
2009	0.0	0.0	8.3	62.1	170.1	24.8	158.5	192.2	118.2	158.4	0.0	0.0	892.6	
2010	0.0	0.0	7.3	36.8	128.0	156.7	173.4	84.1	121.9	397.4	111.9	0.0	1,217.5	
2011	0.0	0.0	43.0	42.3	258.6	188.4	203.3	153.0	98.6	145.4	83.7	21.5	1,237.8	
2012	13.7	24.5	102.2	114.7	212.3	119.0	252.3	87.3	286.6	149.2	95.1	0.8	1,457.7	
2013	18.1	0.0	2.7	32.7	267.1	169.9	159.8	129.6	261.4	208.4	139.6	2.9	1,392.2	
2014	0.0	0.0	0.0	304.2	150.6	102.2	198.4	240.4	205.8	256.2	20.1	17.3	1,495.2	
2015	0.0	7.0	19.0	57.8	134.7	106.0	122.5	239.0	147.0	207.8	24.0	0.0	1,064.8	
2016	0.0	0.0	0.0	38.3	180.0	202.4	93.1	63.9	210.0	333.9	128.9	163.0	1,413.5	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	4.6	9.5	35.7	85.8	169.8	148.5	158.1	179.4	228.6	189.2	83.2	20.8	1,319.8	
Max.	44.0	75.9	119.9	304.2	322.7	371.2	364.7	541.7	373.5	397.4	340.4	163.0	1,829.8	

Station: Thanh Binh		ID: RLD06											Longitude: 108.2833	
Province: Lam Dong		Latitude: 11.78333											Unit: mm	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1978	15.9	0.0	84.1	225.7	248.9	203.6	163.3	247.3	182.8	271.1	41.7	8.5	1,692.9	
1979	0.0	18.4	130.8	194.1	218.1	313.6	358.6	251.2	284.1	287.5	132.7	12.9	2,202.0	
1980	30.8	0.0	7.2	75.9	213.0	243.5	149.1	148.2	208.0	369.0	142.4	20.6	1,607.7	
1981	0.0	38.5	29.3	307.4	102.0	336.2	56.7	186.2	309.0	315.2	78.1	6.2	1,764.8	
1982	0.0	0.0	141.2	273.5	166.1	167.9	111.3	68.5	329.4	186.0	57.7	2.0	1,503.6	
1983	0.0	0.0	63.0	131.8	220.5	257.2	170.5	210.2	382.0	274.7	34.0	23.0	1,766.9	
1984	11.5	0.0	52.0	79.0	176.7	132.7	310.9	193.8	216.6	273.8	6.5	17.0	1,470.5	
1985	0.0	49.0	30.0	322.5	99.7	116.0	127.5	81.0	116.0	230.3	56.0	3.6	1,231.6	
1986	1.0	32.2	83.5	93.7	251.0	48.5	82.5	292.4	423.0	136.0	171.0	54.0	1,668.8	
1987	0.0	41.4	124.0	183.0	24.0	114.5	192.2	386.0	299.9	270.6	161.7	0.2	1,797.5	
1988	11.0	26.0	65.3	79.2	179.2	94.7	198.6	135.3	215.3	136.8	45.7	0.0	1,187.1	
1989	0.0	0.0	98.9	198.3	188.2	168.9	172.0	111.5	170.8	173.7	2.3	0.0	1,284.6	
1990	0.2	117.5	46.9	277.4	161.6	199.2	81.0	223.9	117.4	183.5	110.7	0.0	1,519.3	
1991	0.3	0.2	10.8	153.7	140.1	94.3	121.1	146.5	222.1	161.6	9.0	0.0	1,059.7	
1992	10.4	49.2	117.8	201.6	249.2	260.5	135.3	108.3	17.3	140.6	0.3	2.1	1,292.6	
1993	35.0	11.7	139.5	32.7	272.6	220.2	118.6	84.4	257.6	252.8	83.9	88.7	1,597.7	
1994	0.0	12.3	24.3	189.9	457.6	132.0	239.9	44.4	236.3	258.2	1.0	56.5	1,652.4	
1995	6.2	25.2	41.8	94.2	184.3	205.8	199.4	193.5	247.5	327.8	46.6	22.4	1,594.7	
1996	0.0	0.0	18.0	344.1	305.0	179.0	224.5	163.4	328.4	239.5	107.2	28.7	1,937.8	
1997	0.0	56.8	97.4	393.4	272.0	120.2	329.3	147.6	318.5	157.4	21.1	0.0	1,913.7	
1998	0.0	32.0	6.0	169.6	244.6	172.6	153.9	205.9	161.4	212.0	338.5	142.9	1,839.4	
1999	4.3	0.0	93.7	224.5	400.8	146.5	116.4	145.5	101.7	273.1	145.4	36.3	1,688.2	
2000	0.0	22.0	40.5	213.3	181.1	256.1	162.8	283.3	188.6	407.3	143.8	63.1	1,961.9	
2001	0.0	34.0	95.5	36.5	100.9	0.0	99.7	220.3	201.6	144.4	53.7	28.2	1,014.8	
2002	0.0	0.0	61.1	67.1	95.5	205.5	62.8	429.1	182.6	184.9	108.8	8.0	1,405.4	
2003	0.3	45.6	23.5	214.4	122.7	223.8	84.8	466.5	265.1	155.1	5.1	0.0	1,606.9	
2004	0.0	6.6	132.5	178.8	156.1	227.7	194.4	181.2	214.9	103.7	0.3	0.9	1,397.1	
2005	0.0	0.2	28.5	38.3	190.0	110.4	226.3	206.5	231.9	274.7	108.7	43.2	1,458.7	
2006	0.0	1.7	80.1	105.6	273.9	135.9	111.2	302.2	286.2	172.5	0.0	0.0	1,469.3	
2007	1.1	0.6	83.1	115.6	340.4	239.7	179.6	243.3	420.0	243.5	85.0	0.8	1,952.7	
2008	2.3	3.3	71.9	120.9	206.5	93.7	202.0	177.7	145.1	218.5	92.0	17.6	1,351.5	
2009	0.6	18.8	76.6	307.3	358.3	40.2	197.9	301.0	299.2	202.8	51.1	0.0	1,853.8	
2010	38.0	2.2	10.3	140.0	195.1	247.2	256.9	43.4	230.4	493.8	327.2	36.5	2,021.0	
2011	0.0	0.0	57.3	104.2	176.0	118.9	183.5	264.4	93.3	205.6	139.7	11.7	1,354.6	
2012	26.5	44.4	46.2	195.2	265.7	100.2	151.4	67.9	301.3	157.1	139.1	0.0	1,495.0	
2013	6.5	0.0	88.2	161.0	251.0	357.1	354.9	117.9	452.5	288.2	180.8	3.5	2,261.6	
2014	0.0	0.0	44.2	381.5	133.8	174.6	221.6	131.6	294.5	253.6	46.5	73.4	1,755.3	
2015	0.0	5.0	2.0	115.1	214.5	207.3	139.8	192.7	253.9	190.9	46.9	49.7	1,417.8	
2016	4.7	0.0	0.0	140.1	228.0	259.8	185.8	94.0	232.3	227.0	103.1	152.0	1,626.8	
2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	5.3	17.8	62.7	176.4	211.9	177.6	175.1	192.3	242.0	232.2	87.8	26.0	1,607.1	
Max.	38.0	117.5	141.2	393.4	457.6	357.1	358.6	466.5	452.5	493.8	338.5	152.0	2,261.6	

Source: MONRE

	Rank		No.																							
			R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20				
			Province	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Gia Lai	Gia Lai	Gia Lai	Gia Lai	Gia Lai	Gia Lai	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak			
			ID	RKT01	RKT02	RKT03	RKT04	RKT05	RKT06	RKT07	RGL01	RGL02	RGL03	RGL04	RGL05	RGL06	RDL01	RDL02	RDL03	RDL04	RDL05	RDL06	RDL07			
			St.Name	Dak To	Kon tum	Dak Mot	Kom Plong	Dak Glei	Sa Thay	Mang Canh	An khe	Ayuppa	Pleiku	Ya Ly	Po Mo Re	Chu Prong	Buon Ma Thuot	Buon Ho	EaHleo	Ea Kmat	Lak	M'Drak	Krong Pach			
			Longitude	107.83	108.00	107.77	108.13	107.75	107.78	108.30	108.66	108.45	108.02	107.75	108.35	107.85	108.05	108.27	108.20	108.13	108.20	108.77	108.37			
			Latitude	14.65	14.33	14.75	14.47	15.08	14.42	14.66	13.95	13.38	13.97	14.20	14.03	13.65	12.67	12.92	13.22	12.68	12.37	12.73	12.75			
R01	Kon Tum	RKT01	Dak To	107.83	14.65	-	4	2	28	12	5	-	38	34	3	6	8	7	11	21	9	20	14	39	27	
R02	Kon Tum	RKT02	Kon tum	108.00	14.33	6	-	2	29	13	5	-	37	31	3	4	7	9	11	17	8	23	18	39	27	
R03	Kon Tum	RKT03	Dak Mot	107.77	14.75	2	6	-	-	31	8	4	-	34	24	3	7	10	-	13	15	12	23	9	35	-
R04	Kon Tum	RKT04	Kom Plong	108.13	14.47	8	4	17	-	2	10	-	38	35	3	13	9	5	14	19	7	23	20	39	18	
R05	Kon Tum	RKT05	Dak Glei	107.75	15.08	6	5	2	9	-	7	-	37	26	13	4	11	25	12	10	3	22	14	39	27	
R06	Kon Tum	RKT06	Sa Thay	107.78	14.42	6	5	3	27	8	-	7	-	36	33	2	4	15	7	9	23	17	16	14	37	-
R07	Kon Tum	RKT07	Mang Canh	108.30	14.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R08	Gia Lai	RGL01	An khe	108.66	13.95	38	32	36	33	27	39	-	-	5	34	31	10	37	13	8	11	16	12	2	6	
R09	Gia Lai	RGL02	Ayuppa	108.45	13.38	36	28	17	39	30	38	-	13	-	31	4	7	35	12	5	2	11	23	34	9	
R10	Gia Lai	RGL03	Pleiku	108.02	13.97	5	7	2	26	24	3	-	37	29	-	4	8	6	11	17	9	16	21	39	28	
R11	Gia Lai	RGL04	Ya Ly	107.75	14.20	6	5	4	31	13	3	-	33	8	2	-	17	-	9	22	14	21	7	35	-	
R12	Gia Lai	RGL05	Po Mo Re	108.35	14.03	5	3	7	34	27	22	-	37	13	2	18	-	6	10	8	4	19	20	39	24	
R13	Gia Lai	RGL06	Chu Prong	107.85	13.65	3	7	-	24	26	8	-	35	28	2	-	6	-	12	15	4	14	11	37	22	
R14	Dak Lak	RDL01	Buon Ma Thuot	108.05	12.67	23	21	24	36	31	27	-	38	28	22	20	19	26	-	7	14	2	8	39	15	
R15	Dak Lak	RDL02	Buon Ho	108.27	12.92	29	23	24	36	31	33	-	38	13	25	28	16	32	3	-	5	4	10	39	18	
R16	Dak Lak	RDL03	EaHleo	108.20	13.22	20	7	24	35	18	32	-	37	11	5	23	6	8	10	3	-	17	12	39	2	
R17	Dak Lak	RDL04	Ea Kmat	108.13	12.68	25	24	29	36	34	27	-	38	22	21	23	18	30	2	5	17	-	10	39	20	
R18	Dak Lak	RDL05	Lak	108.20	12.37	21	22	15	36	33	25	-	38	34	29	16	20	23	5	12	13	6	-	39	9	
R19	Dak Lak	RDL06	M'Drak	108.77	12.73	37	33	38	23	32	39	-	2	6	34	36	12	35	22	10	29	15	21	-	7	
R20	Dak Lak	RDL07	Krong Pach	108.37	12.75	27	21	-	33	29	-	-	23	13	24	-	19	25	7	11	2	16	3	36	-	
R21	Dak Lak	RDL08	Ban Don	107.77	12.90	19	18	21	36	31	33	-	38	30	20	23	17	22	4	8	16	9	13	39	24	
R22	Dak Lak	RDL09	Giang Son	108.20	12.50	29	24	22	36	35	31	-	38	23	28	19	21	32	3	11	16	4	2	39	15	
R23	Dak Lak	RDL10	Krong Bong	108.40	12.55	35	31	28	37	33	36	-	16	9	38	23	22	39	7	5	19	6	8	30	4	
R24	Dak Lak	RDL11	Buon Dray	107.98	12.54	19	20	2	29	26	24	-	38	27	21	17	18	30	5	12	15	8	14	39	36	
R25	Dak Lak	RDL12	Buon Trap	108.03	12.49	21	15	-	33	32	-	-	34	27	18	-	19	23	2	13	11	3	5	36	14	
R26	Dak Lak	RDL13	Buon Triet	108.05	12.39	30	22	-	34	33	25	-	36	28	26	-	19	29	7	14	9	8	3	37	15	
R27	Dak Lak	RDL14	Doan 715	108.77	12.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
R28	Dak Lak	RDL15	Ea Hding	108.12	12.90	28	23	22	36	32	30	-	38	24	18	20	19	16	3	2	10	5	7	39	17	
R29	Dak Lak	RDL16	Ea Knop	108.45	12.80	36	34	35	27	32	38	-	4	6	37	33	13	39	11	7	17	10	15	2	9	
R30	Dak Lak	RDL17	Ea Sup	107.88	13.07	19	5	22	34	28	25	-	38	32	14	18	11	17	7	13	8	6	12	39	20	
R31	Dak Lak	RDL18	Krong Buk	108.40	12.77	36	30	34	37	31	38	-	18	4	35	33	24	39	9	3	19	8	15	27	6	
R32	Dak Nong	RDN01	M_Rain	107.68	12.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
R33	Dak Nong	RDN02	Dak Mil	107.62	12.45	31	21	33	36	32	30	-	38	28	34	24	23	35	6	13	18	8	14	39	25	
R34	Dak Nong	RDN03	M_Rain	107.98	12.28	26	18	21	36	35	20	-	38	33	27	17	22	30	5	15	19	3	7	39	12	
R35	Dak Nong	RDN04	Cau 14	107.90	12.60	22	19	25	36	33	23	-	38	28	26	17	16	32	3	12	18	5	11	39	20	
R36	Lam Dong	RLD01	Bao Loc	107.82	11.53	8	5	6	33	32	23	-	38	35	3	18	21	10	14	17	4	12	7	39	22	
R37	Lam Dong	RLD02	Da Lat	108.45	11.95	29	24	25	36	32	34	-	38	30	33	18	26	35	17	5	8	11	14	39	23	
R38	Lam Dong	RLD03	Lien Khuong	108.38	11.75	32	27	29	36	31	35	-	38	22	33	19	28	30	13	5	10	18	16	39	34	
R39	Lam Dong	RLD04	Dai Nga	107.87	11.53	6	12	5	33	31	20	-	38	34	4	16	15	8	17	13	3	24	14	39	19	
R40	Lam Dong	RLD05	Dai Ninh	108.30	11.65	31	27	24	37	34	32	-	38	21	33	26	25	35	16	7	3	14	13	39	30	
R41	Lam Dong	RLD06	Thanh Binh	108.28	11.78	32	31	12	35	30	34	-	38	20	33	10	29	36	15	11	27	19	23	39	22	

Priority	No.	R01 R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20																							
		Province	Kon Tu	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Kon Tum	Gia Lai	Gia Lai	Gia Lai	Gia Lai	Gia Lai	Gia Lai	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak		
		ID	RKT01	RKT02	RKT03	RKT04	RKT05	RKT06	RKT07	RGL01	RGL02	RGL03	RGL04	RGL05	RGL06	RDL01	RDL02	RDL03	RDL04	RDL05	RDL06	RDL07			
		St.Name	Dak To	Kon tum	Dak Mot	Kom Plong	Dak Glei	Sa Thay	Mang Canh	An khe	Ayunpa	Pleiku	Ya Ly	Po Mo Re	Chu Prong	Buon Ma Thuot	Buon Ho	EaHleo	Ea Kmat	Lak	M'Drak	Krong Pach			
		Longitude	107.83	108.00	107.77	108.13	107.75	107.78	108.30	108.66	108.45	108.02	107.75	108.35	107.85	108.05	108.27	108.20	108.13	108.20	108.77	108.37			
		Longitude	Latitude	14.65	14.33	14.75	14.47	15.08	14.42	14.66	13.95	13.38	13.97	14.20	14.03	13.65	12.67	12.92	13.22	12.68	12.37	12.73	12.75		
R01	Kon Tum	RKT01	Dak To	107.83	14.65	-	2	-	6	5	3	-	10	9	4	-	8	7							
R02	Kon Tum	RKT02	Kon tum	108.00	14.33	2	-	-	5	8	4	-	10	9	3	-	6	7							
R03	Kon Tum	RKT03	Dak Mot	107.77	14.75	2	5	-	9	4	3	-		10	7	6	8								
R04	Kon Tum	RKT04	Kom Plong	108.13	14.47	5	2	17	-	3	6	-	10	9	4	13	7	8							
R05	Kon Tum	RKT05	Dak Glei	107.75	15.08	2	3	2	5	-	4	-	10	9	6	4	7	8							
R06	Kon Tum	RKT06	Sa Thay	107.78	14.42	4	2	3	6	7	-	-	10	9	3	4	8	5							
R07	Kon Tum	RKT07	Mang Canh	108.30	14.66	5	2	6	-	4	-	-	-	-	3	-	-	-	-	-	-	-			
R08	Gia Lai	RGL01	An khe	108.66	13.95		9	36	10								7	6	5			4			
R09	Gia Lai	RGL02	Ayunpa	108.45	13.38	7		17							4	6		4	2	11		9			
R10	Gia Lai	RGL03	Pleiku	108.02	13.97	6	3	2		5				-	4	2	4		11		9				
R11	Gia Lai	RGL04	Ya Ly	107.75	14.20	6	5	4		9	3				8	2		10	7						
R12	Gia Lai	RGL05	Po Mo Re	108.35	14.03	7	3	7					4		2	18		9		10	6	5			
R13	Gia Lai	RGL06	Chu Prong	107.85	13.65	8		-		9	13.65				2	2	-	7		10		4			
R14	Dak Lak	RDL01	Buon Ma Thuot	108.05	12.67			24								20					6	2	7		
R15	Dak Lak	RDL02	Buon Ho	108.27	12.92			24								28		3		-	5	4	8		
R16	Dak Lak	RDL03	EaHleo	108.20	13.22			24							5	6	23	7	8	10	2	-	3		
R17	Dak Lak	RDL04	Ea Kmat	108.13	12.68			29								23		2	5			-	9		
R18	Dak Lak	RDL05	Lak	108.20	12.37			15								16		4				5	-	8	
R19	Dak Lak	RDL06	M'Drak	108.77	12.73			38					6	5		36				10			-	7	
R20	Dak Lak	RDL07	Krong Pach	108.37	12.75													8	2	6	3	7		-	
R21	Dak Lak	RDL08	Ban Don	107.77	12.90			21								23		3	10			8			
R22	Dak Lak	RDL09	Giang Son	108.20	12.50			22								19		3	10			4	2		
R23	Dak Lak	RDL10	Krong Bong	108.40	12.55			28								23		7	8			5	6	4	
R24	Dak Lak	RDL11	Buon Dray	107.98	12.54			2								17		3	10			5			
R25	Dak Lak	RDL12	Buon Trap	108.03	12.49													2		10	3	5			
R26	Dak Lak	RDL13	Buon Triet	108.05	12.39													6				7	2		
R27	Dak Lak	RDL14	Doan 715	108.77	12.77																			2	
R28	Dak Lak	RDL15	Ea Hding	108.12	12.90			22								20		3	2	6	4	8			
R29	Dak Lak	RDL16	Ea Knop	108.45	12.80			35						5		33		10	6			9		2	7
R30	Dak Lak	RDL17	Ea Sup	107.88	13.07			22							9	18		8		4	6				
R31	Dak Lak	RDL18	Krong Buk	108.40	12.77			34							7		33		9	3		8			6
R32	Dak Nong	RDN01	M_Rain	107.68	12.00																				
R33	Dak Nong	RDN02	Dak Mil	107.62	12.45			33								24		7				6			
R34	Dak Nong	RDN03	M_Rain	107.98	12.28			21								17		9				4	5		
R35	Dak Nong	RDN04	Cau 14	107.90	12.60			25								17		2				4	10		
R36	Lam Dong	RLD01	Bao Loc	107.82	11.53			6								18		10				8			
R37	Lam Dong	RLD02	Da Lat	108.45	11.95			25								18						10	5		
R38	Lam Dong	RLD03	Lien Khuong	108.38	11.75			29								19				10					
R39	Lam Dong	RLD04	Dai Nga	107.87	11.53			5								16							10		
R40	Lam Dong	RLD05	Dai Ninh	108.30	11.65			24								26				7	3				
R41	Lam Dong	RLD06	Thanh Binh	108.28	11.78			12								10				11			7		

Priority	No.	R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41																								
		Province	Dak La	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Lak	Dak Nong	Dak Nong	Dak Nong	Dak Nong	Lam Dong	Lam Dong	Lam Dong	Lam Dong	Lam Dong	Lam Dong	Lam Dong
		ID	RDL08	RDL09	RDL10	RDL11	RDL12	RDL13	RDL14	RDL15	RDL16	RDL17	RDL18	RDN01	RDN02	RDN03	RDN04	RLD01	RLD02	RLD03	RLD04	RLD05	RLD06			
		St.Name	Ban Don	Giang Son	Krong Bon	Buon Dray	Buon Triet	Doan 715	Ea Hding	Ea Knop	Ea Sup	Krong H	M Rain	Dak Mil	M_Rain	Cau_14	Bao Loc	Da Lat	Lien Khud	Dai Nga	Dai Ninh	Thanh Bin				
		Longitude	107.77	108.20	108.40	107.98	108.03	108.05	108.77	108.12	108.45	107.88	108.40	107.68	107.62	107.98	107.90	107.82	108.45	108.38	107.87	108.30	108.28			
		Latitude	12.90	12.50	12.55	12.54	12.49	12.39	12.77	12.90	12.80	13.07	12.77	12.00	12.45	12.28	12.60	11.53	11.95	11.75	11.53	11.65	11.78			
R01	Kon Tum	RKT01	Dak To	107.83	14.65																					
R02	Kon Tum	RKT02	Kon tum	108.00	14.33																					
R03	Kon Tum	RKT03	Dak Mot	107.77	14.75																					
R04	Kon Tum	RKT04	Kom Plong	108.13	14.47																					
R05	Kon Tum	RKT05	Dak Glei	107.75	15.08																					
R06	Kon Tum	RKT06	Sa Thay	107.78	14.42																					
R07	Kon Tum	RKT07	Mang Canh	108.30	14.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R08	Gia Lai	RGL01	An khe	108.66	13.95																					
R09	Gia Lai	RGL02	Ayunpa	108.45	13.38		10	5							27	3										
R10	Gia Lai	RGL03	Pleiku	108.02	13.97										9	8	36									
R11	Gia Lai	RGL04	Ya Ly	107.75	14.20																					
R12	Gia Lai	RGL05	Po Mo Re	108.35	14.03										8											
R13	Gia Lai	RGL06	Chu Prong	107.85	13.65	5									6	3										
R14	Dak Lak	RDL01	Buon Ma Thuot	108.05	12.67	10	5			8					4											
R15	Dak Lak	RDL02	Buon Ho	108.27	12.92		6			9					2											
R16	Dak Lak	RDL03	Ea Hleo	108.20	13.22										9	4										
R17	Dak Lak	RDL04	Ea Kmat	108.13	12.68		4			6	10				3											
R18	Dak Lak	RDL05	Lak	108.20	12.37		2			6	3				10											
R19	Dak Lak	RDL06	M'DRak	108.77	12.73		9	4		8					2											
R20	Dak Lak	RDL07	Krong Pach	108.37	12.75		5	4							9											
R21	Dak Lak	RDL08	Ban Don	107.77	12.90		-	9		5					4											
R22	Dak Lak	RDL09	Giang Son	108.20	12.50					6	5				7											
R23	Dak Lak	RDL10	Krong Bong	108.40	12.55		2								10	9										
R24	Dak Lak	RDL11	Buon Dray	107.98	12.54	7	8								6	9										
R25	Dak Lak	RDL12	Buon Trap	108.03	12.49		6				4				9											
R26	Dak Lak	RDL13	Buon Triet	108.05	12.39		4			9	3				2											
R27	Dak Lak	RDL14	Doan 715	108.77	12.77																					
R28	Dak Lak	RDL15	Ea Hding	108.12	12.90		9			10																
R29	Dak Lak	RDL16	Ea Knop	108.45	12.80		8	4																		
R30	Dak Lak	RDL17	Ea Sup	107.88	13.07	3				7					2											
R31	Dak Lak	RDL18	Krong Buk	108.40	12.77		5	2							10											
R32	Dak Nong	RDN01	M_Rain	107.68	12.00																					
R33	Dak Nong	RDN02	Dak Mil	107.62	12.45	4	10			5					9											
R34	Dak Nong	RDN03	M_Rain	107.98	12.28		6			2	10				3											
R35	Dak Nong	RDN04	Cau_14	107.90	12.60	3	6			7					6											
R36	Lam Dong	RLD01	Bao Loc	107.82	11.53																					
R37	Lam Dong	RLD02	Da Lat	108.45	11.95		8	6							9											
R38	Lam Dong	RLD03	Lien Khuong	108.38	11.75		7								8											
R39	Lam Dong	RLD04	Dai Nga	107.87	11.53					9																
R40	Lam Dong	RLD05	Dai Ninh	108.30	11.65		10			7																
R41	Lam Dong	RLD06	Thanh Binh	108.28	11.78		10			9																

Source: JICA Study Team

AP 3.1.4 Linear Regression for the Station based on Monthly Rainfall Data

No.	Target Station (y)	Pro rity	ID (x)	Name of Base Station (x)	Coefficient of Correlation (R2)	Standard Error (F)	Distance (non- dimensio n)	Regression Equation Line : y = ax		
								Station y	= a	* (Station x)
1	Dak To (RKT01) Longitude 107.83 Latitude 14.65	1	RKT02	Kon tum	0.750	80.63	0.36	Dak To	= 0.919	* (Kon tum)
		2	RKT06	Sa Thay	0.727	82.53	0.24	Dak To	= 0.860	* (Sa Thay)
		3	RGL03	Pleiku	0.796	72.48	0.71	Dak To	= 0.686	* (Pleiku)
		4	RKT05	Dak Glei	0.578	102.46	0.44	Dak To	= 0.829	* (Dak Glei)
		5	RKT04	Kom Plong	0.435	123.33	0.35	Dak To	= 0.801	* (Kom Plong)
		6	RGL06	Chu Prong	0.702	89.45	1.00	Dak To	= 0.578	* (Chu Prong)
		7	RGL05	Po Mo Re	0.680	92.21	0.80	Dak To	= 0.888	* (Po Mo Re)
		8	RGL02	Ayunpa	0.332	132.99	1.41	Dak To	= 0.851	* (Ayunpa)
		9	RGL01	An khe	0.079	156.26	1.08	Dak To	= 0.338	* (An khe)
2	Kon tum (RKT02) Longitude 108.00 Latitude 14.33	1	RKT02	Kon tum	1.000	0.00	0.00	Kon tum	= 1.000	* (Kon tum)
		2	RKT06	Sa Thay	0.758	77.33	0.23	Kon tum	= 0.868	* (Sa Thay)
		3	RGL03	Pleiku	0.779	68.18	0.37	Kon tum	= 0.620	* (Pleiku)
		4	RKT05	Dak Glei	0.596	96.49	0.79	Kon tum	= 0.807	* (Dak Glei)
		5	RKT04	Kom Plong	0.479	110.82	0.19	Kon tum	= 0.787	* (Kom Plong)
		6	RGL06	Chu Prong	0.656	85.23	0.70	Kon tum	= 0.496	* (Chu Prong)
		7	RGL05	Po Mo Re	0.720	77.43	0.46	Kon tum	= 0.819	* (Po Mo Re)
		8	RGL02	Ayunpa	0.425	110.60	1.05	Kon tum	= 0.863	* (Ayunpa)
		9	RGL01	An khe	0.136	135.89	0.76	Kon tum	= 0.393	* (An khe)
3	Dak Mot (RKT03) Longitude 107.77 Latitude 14.75	1	RKT02	Kon tum	0.792	76.22	0.48	Dak Mot	= 0.914	* (Kon tum)
		2	RKT06	Sa Thay	0.804	74.75	0.34	Dak Mot	= 1.013	* (Sa Thay)
		3	RGL03	Pleiku	0.879	52.29	0.82	Dak Mot	= 0.782	* (Pleiku)
		4	RKT05	Dak Glei	0.667	97.46	0.33	Dak Mot	= 0.904	* (Dak Glei)
		5	RKT04	Kom Plong	0.380	135.91	0.46	Dak Mot	= 0.727	* (Kom Plong)
		6	RGL06	Chu Prong	-	-	1.10	Dak Mot	= -	* (Chu Prong)
		7	RGL05	Po Mo Re	0.645	107.32	0.92	Dak Mot	= 1.124	* (Po Mo Re)
		8	RGL02	Ayunpa	0.482	129.77	1.53	Dak Mot	= 1.162	* (Ayunpa)
		9	RGL01	An khe	0.082	172.74	1.20	Dak Mot	= 0.565	* (An khe)
4	Kom Plong (RKT04) Longitude 108.13 Latitude 14.47	1	RKT02	Kon tum	0.479	97.49	0.19	Kom Plong	= 0.609	* (Kon tum)
		2	RKT06	Sa Thay	0.417	107.09	0.35	Kom Plong	= 0.573	* (Sa Thay)
		3	RGL03	Pleiku	0.488	90.37	0.51	Kom Plong	= 0.420	* (Pleiku)
		4	RKT05	Dak Glei	0.525	94.48	0.72	Kom Plong	= 0.674	* (Dak Glei)
		5	RKT04	Kom Plong	1.000	0.00	0.00	Kom Plong	= 1.000	* (Kom Plong)
		6	RGL06	Chu Prong	0.456	92.51	0.86	Kom Plong	= 0.357	* (Chu Prong)
		7	RGL05	Po Mo Re	0.420	98.95	0.48	Kom Plong	= 0.553	* (Po Mo Re)
		8	RGL02	Ayunpa	0.247	112.69	1.13	Kom Plong	= 0.589	* (Ayunpa)
		9	RGL01	An khe	0.115	122.26	0.74	Kom Plong	= 0.337	* (An khe)
5	Dak Glei (RKT05) Longitude 107.75 Latitude 15.08	1	RKT02	Kon tum	0.596	92.25	0.79	Dak Glei	= 0.738	* (Kon tum)
		2	RKT06	Sa Thay	0.574	94.45	0.67	Dak Glei	= 0.718	* (Sa Thay)
		3	RGL03	Pleiku	0.500	98.89	1.15	Dak Glei	= 0.486	* (Pleiku)
		4	RKT05	Dak Glei	1.000	0.00	0.00	Dak Glei	= 1.000	* (Dak Glei)
		5	RKT04	Kom Plong	0.525	101.53	0.72	Dak Glei	= 0.779	* (Kom Plong)
		6	RGL06	Chu Prong	0.417	106.57	1.43	Dak Glei	= 0.399	* (Chu Prong)
		7	RGL05	Po Mo Re	0.510	98.16	1.21	Dak Glei	= 0.653	* (Po Mo Re)
		8	RGL02	Ayunpa	0.417	107.00	1.84	Dak Glei	= 0.827	* (Ayunpa)
		9	RGL01	An khe	0.164	128.13	1.45	Dak Glei	= 0.439	* (An khe)
6	Sa Thay (RKT06) Longitude 107.78 Latitude 14.42	1	RKT02	Kon tum	0.758	77.62	0.23	Sa Thay	= 0.874	* (Kon tum)
		2	RKT06	Sa Thay	1.000	0.00	0.00	Sa Thay	= 1.000	* (Sa Thay)
		3	RGL03	Pleiku	0.855	64.24	0.51	Sa Thay	= 0.829	* (Pleiku)
		4	RKT05	Dak Glei	0.574	99.70	0.67	Sa Thay	= 0.800	* (Dak Glei)
		5	RKT04	Kom Plong	0.417	120.79	0.35	Sa Thay	= 0.729	* (Kom Plong)
		6	RGL06	Chu Prong	0.648	90.81	0.77	Sa Thay	= 0.730	* (Chu Prong)
		7	RGL05	Po Mo Re	0.532	115.63	0.68	Sa Thay	= 0.889	* (Po Mo Re)
		8	RGL02	Ayunpa	0.277	143.69	1.23	Sa Thay	= 0.869	* (Ayunpa)
		9	RGL01	An khe	0.021	167.23	0.99	Sa Thay	= 0.178	* (An khe)
7	Mang Canh (RKT07) Longitude 108.30 Latitude 14.66	1	RKT02	Kon tum	-	-	0.44	Mang Canh	= -	* (Kon tum)
		2	RKT06	Sa Thay	-	-	0.57	Mang Canh	= -	* (Sa Thay)
		3	RGL03	Pleiku	-	-	0.75	Mang Canh	= -	* (Pleiku)
		4	RKT05	Dak Glei	-	-	0.70	Mang Canh	= -	* (Dak Glei)
		5	RKT04	Kom Plong	-	-	0.25	Mang Canh	= -	* (Kom Plong)
		6	RGL06	Chu Prong	-	-	1.10	Mang Canh	= -	* (Chu Prong)
		7	RGL05	Po Mo Re	-	-	0.63	Mang Canh	= -	* (Po Mo Re)
		8	RGL02	Ayunpa	-	-	1.28	Mang Canh	= -	* (Ayunpa)
		9	RGL01	An khe	-	-	0.79	Mang Canh	= -	* (An khe)
8	An khe (RGL01) Longitude 108.66 Latitude 13.95	1	RKT02	Kon tum	0.136	125.51	0.76	An khe	= 0.341	* (Kon tum)
		2	RKT06	Sa Thay	0.021	135.64	0.99	An khe	= 0.117	* (Sa Thay)
		3	RGL03	Pleiku	0.093	134.21	0.64	An khe	= 0.205	* (Pleiku)
		4	RKT05	Dak Glei	0.164	118.42	1.45	An khe	= 0.375	* (Dak Glei)
		5	RKT04	Kom Plong	0.115	122.93	0.74	An khe	= 0.340	* (Kom Plong)
		6	RGL06	Chu Prong	0.080	128.03	0.86	An khe	= 0.159	* (Chu Prong)
		7	RGL05	Po Mo Re	0.292	112.40	0.32	An khe	= 0.476	* (Po Mo Re)
		8	RGL02	Ayunpa	0.517	93.96	0.60	An khe	= 0.883	* (Ayunpa)
		9	RGL01	An khe	1.000	0.00	0.00	An khe	= 1.000	* (An khe)
9	Ayunpa (RGL02) Longitude 108.45 Latitude 13.38	1	RKT02	Kon tum	0.425	83.55	1.05	Ayunpa	= 0.492	* (Kon tum)
		2	RKT06	Sa Thay	0.277	87.07	1.23	Ayunpa	= 0.319	* (Sa Thay)
		3	RGL03	Pleiku	0.410	86.27	0.73	Ayunpa	= 0.345	* (Pleiku)
		4	RKT05	Dak Glei	0.417	83.54	1.84	Ayunpa	= 0.504	* (Dak Glei)

	Latitude 11.75	4	RKT05	Dak Glei	0.380	87.99	3.39	Lien Khuong	=	0.490	*	(Dak Glei)
		5	RKT04	Kom Plong	0.304	99.51	2.73	Lien Khuong	=	0.502	*	(Kom Plong)
		6	RGL06	Chu Prong	0.381	93.73	1.97	Lien Khuong	=	0.309	*	(Chu Prong)
		7	RGL05	Po Mo Re	0.416	91.05	2.28	Lien Khuong	=	0.503	*	(Po Mo Re)
		8	RGL02	Ayunpa	0.437	89.35	1.63	Lien Khuong	=	0.718	*	(Ayunpa)
		9	RGL01	An khe	0.166	108.80	2.21	Lien Khuong	=	0.363	*	(An khe)
39	Dai Nga (RLD04) Longitude 107.87 Latitude 11.53	1	RKT02	Kon tum	0.533	98.21	2.80	Dai Nga	=	0.696	*	(Kon tum)
		2	RKT06	Sa Thay	0.497	108.89	2.88	Dai Nga	=	0.619	*	(Sa Thay)
		3	RGL03	Pleiku	0.585	87.11	2.44	Dai Nga	=	0.489	*	(Pleiku)
		4	RKT05	Dak Glei	0.452	107.10	3.55	Dai Nga	=	0.693	*	(Dak Glei)
		5	RKT04	Kom Plong	0.393	111.97	2.95	Dai Nga	=	0.687	*	(Kom Plong)
		6	RGL06	Chu Prong	0.549	90.52	2.12	Dai Nga	=	0.420	*	(Chu Prong)
		7	RGL05	Po Mo Re	0.514	96.36	2.55	Dai Nga	=	0.654	*	(Po Mo Re)
		8	RGL02	Ayunpa	0.384	108.29	1.94	Dai Nga	=	0.776	*	(Ayunpa)
		9	RGL01	An khe	0.152	127.33	2.54	Dai Nga	=	0.404	*	(An khe)
40	Dai Ninh (RLD05) Longitude 108.30 Latitude 11.65	1	RKT02	Kon tum	0.421	77.39	2.70	Dai Ninh	=	0.459	*	(Kon tum)
		2	RKT06	Sa Thay	0.355	76.34	2.81	Dai Ninh	=	0.336	*	(Sa Thay)
		3	RGL03	Pleiku	0.329	86.26	2.33	Dai Ninh	=	0.293	*	(Pleiku)
		4	RKT05	Dak Glei	0.323	83.63	3.47	Dai Ninh	=	0.412	*	(Dak Glei)
		5	RKT04	Kom Plong	0.207	91.07	2.82	Dai Ninh	=	0.349	*	(Kom Plong)
		6	RGL06	Chu Prong	0.312	87.16	2.05	Dai Ninh	=	0.263	*	(Chu Prong)
		7	RGL05	Po Mo Re	0.439	76.75	2.38	Dai Ninh	=	0.458	*	(Po Mo Re)
		8	RGL02	Ayunpa	0.463	75.07	1.74	Dai Ninh	=	0.653	*	(Ayunpa)
		9	RGL01	An khe	0.199	91.70	2.32	Dai Ninh	=	0.343	*	(An khe)
41	Thanh Binh (RLD06) Longitude 108.28 Latitude 11.78	1	RKT02	Kon tum	0.361	87.06	2.57	Thanh Binh	=	0.434	*	(Kon tum)
		2	RKT06	Sa Thay	0.302	94.60	2.68	Thanh Binh	=	0.356	*	(Sa Thay)
		3	RGL03	Pleiku	0.304	91.38	2.20	Thanh Binh	=	0.286	*	(Pleiku)
		4	RKT05	Dak Glei	0.364	84.94	3.34	Thanh Binh	=	0.457	*	(Dak Glei)
		5	RKT04	Kom Plong	0.278	91.26	2.69	Thanh Binh	=	0.432	*	(Kom Plong)
		6	RGL06	Chu Prong	0.254	93.23	1.92	Thanh Binh	=	0.229	*	(Chu Prong)
		7	RGL05	Po Mo Re	0.368	86.90	2.25	Thanh Binh	=	0.437	*	(Po Mo Re)
		8	RGL02	Ayunpa	0.422	83.34	1.61	Thanh Binh	=	0.646	*	(Ayunpa)
		9	RGL01	An khe	0.151	100.72	2.20	Thanh Binh	=	0.317	*	(An khe)

Source: JICA Study Team

AP 3.1.5 Runoff Coefficient

ID Number	HKT01	HKT02	HKT03	HGL01	HGL02	HGL03	HDL01	HDL02	HDL03	HDN01	HDN02	HDN03	HLD01	HLD02	HLD03
Station	Dak Mot	Kon Plong	Kon Tum	An Khe	Ayun Pa	Po Mo re	Ban Don	Gang Son	Krong Buk	Duc Xuyen	Cau 14	Dak Nong	Dai Nga	Dai Ninh	Thanh Binh
Basin	Sesan	Sesan	Sesan	Ba	Ba	Ba	Srepok	Srepok	Srepok	Srepok	Srepok	Dong Nai	-	Dong Nai	Dong Nai
C.A.(km ²)	1,641	965	3,056	1,368	6,820	311	10,600	3,020	527	2,620	8,610	300	347	1,848	294
Longitude	107.77	108.02	108.02	108.65	108.47	108.35	107.77	108.20	108.40	107.90	107.90	107.68	107.87	108.30	108.28
Latitude	14.75	14.47	14.33	13.95	0.28	14.03	12.90	12.50	12.77	12.28	12.60	12.00	11.53	11.65	11.78
District	Dak To	Kon Ray	Kon Tum	An Khe	La Pa	Mang Yang	Boun Don	Krong Bong	Krong Buk	Krong No	Cu Jut	Gia Nghia	Bao Loc	Duc Trong	Duc Trong
Province	Kon Tum	Kon Tum	Kon Tum	Gia Lai	Gia Lai	Gia Lai	Dak Lak	Dak Lak	Dak Lak	Dak Nong	Dak Nong	Dak Nong	Lam Dong	Lam Dong	Lam Dong
Year	Runoff Coefficient														
1977	ND	ND	ND	ND	ND	ND	0.34	0.35	0.21	ND	0.34	ND	ND	ND	ND
1978	ND	ND	ND	0.30	ND	ND	0.38	0.32	0.19	0.58	0.36	ND	ND	ND	ND
1979	ND	ND	ND	0.26	ND	ND	0.37	0.32	0.19	0.65	0.38	ND	1.00	ND	ND
1980	ND	ND	ND	0.54	ND	ND	0.43	0.42	0.25	0.65	0.46	ND	0.77	ND	0.66
1981	ND	ND	ND	0.68	ND	ND	0.51	0.56	0.34	0.73	0.52	0.44	1.19	ND	0.51
1982	ND	ND	ND	0.12	ND	ND	0.43	0.25	0.19	0.56	0.39	0.47	0.89	ND	0.49
1983	ND	ND	ND	0.26	ND	ND	0.37	0.29	0.24	0.56	0.36	0.41	0.81	ND	0.51
1984	ND	ND	ND	0.31	ND	ND	0.42	0.30	0.15	0.75	0.44	1.01	0.97	ND	0.70
1985	ND	ND	ND	0.37	ND	ND	0.36	0.33	0.20	0.55	0.37	0.69	0.80	ND	0.61
1986	ND	ND	ND	0.49	ND	ND	0.36	0.33	0.16	0.58	0.38	0.70	1.08	ND	0.58
1987	ND	ND	ND	0.32	ND	ND	0.37	0.31	0.22	0.57	0.38	0.59	0.84	ND	0.59
1988	ND	ND	ND	0.32	ND	ND	0.41	0.34	0.15	0.60	0.42	0.65	0.62	ND	0.48
1989	ND	ND	ND	0.32	ND	ND	0.41	0.35	0.22	0.64	0.46	0.66	0.77	ND	0.64
1990	ND	ND	0.74	0.50	ND	ND	0.46	0.42	0.24	0.69	0.42	0.61	0.85	ND	0.52
1991	ND	ND	0.81	0.47	ND	ND	0.37	0.29	0.23	0.65	0.37	0.96	1.02	ND	0.58
1992	ND	ND	0.71	0.42	ND	ND	0.44	0.44	0.36	0.66	0.40	0.77	0.88	ND	0.55
1993	ND	ND	0.47	0.36	ND	ND	0.45	0.48	0.31	0.62	0.44	0.70	0.91	ND	0.49
1994	ND	ND	0.66	0.43	ND	ND	0.46	0.39	0.16	0.61	0.44	1.09	1.16	ND	0.57
1995	ND	ND	0.56	0.48	ND	ND	0.37	0.33	0.11	0.43	0.38	0.73	0.77	ND	0.46
1996	ND	ND	0.82	0.65	ND	ND	0.55	0.46	0.18	0.84	0.58	0.91	1.14	ND	0.53
1997	ND	0.85	0.65	0.32	ND	ND	0.49	0.46	0.28	0.59	0.49	0.97	0.61	ND	0.46
1998	ND	0.72	0.51	0.58	ND	ND	0.41	0.50	ND	0.58	0.48	0.54	0.88	ND	0.55
1999	ND	0.77	0.65	0.64	ND	ND	0.52	0.65	0.29	0.81	0.60	1.45	1.05	ND	0.78
2000	ND	0.69	0.66	0.45	ND	ND	0.56	0.59	0.26	0.93	0.63	1.10	0.91	ND	0.58
2001	ND	0.70	0.50	0.35	ND	ND	0.44	0.37	0.23	0.91	0.46	1.06	1.27	ND	0.57
2002	0.79	0.94	0.55	0.50	ND	ND	0.42	0.32	0.20	0.64	0.41	1.11	0.92	ND	0.55
2003	0.63	0.75	0.43	0.40	ND	ND	0.39	0.32	0.21	0.51	0.34	0.84	1.20	ND	0.64
2004	0.70	0.96	0.46	0.31	ND	ND	0.34	0.23	0.15	0.39	0.30	1.40	1.05	ND	0.53
2005	0.92	0.77	0.44	0.38	ND	ND	0.39	0.39	ND	0.43	0.39	0.82	0.80	ND	0.49
2006	0.82	0.87	0.54	0.25	ND	0.53	0.41	0.34	0.26	0.55	0.44	1.73	1.11	ND	0.65
2007	0.63	0.79	0.47	0.55	ND	0.60	0.52	0.50	0.33	0.72	0.57	1.28	0.92	ND	0.72
2008	0.57	0.88	0.65	0.49	ND	0.36	0.43	0.48	0.27	0.53	0.51	0.70	0.93	ND	0.63
2009	0.81	1.09	0.74	0.57	ND	0.74	0.49	0.47	0.25	0.45	0.51	1.30	0.95	ND	0.67
2010	0.46	1.07	0.50	0.45	ND	0.50	0.49	0.61	0.27	0.33	0.50	0.91	0.46	ND	0.52
2011	0.75	1.05	0.60	0.24	ND	0.47	0.48	0.41	0.11	0.59	0.52	1.18	0.99	ND	0.69
2012	1.05	1.00	0.55	0.15	ND	0.41	0.44	0.34	0.09	0.53	0.47	1.57	0.85	ND	0.62
2013	0.83	0.70	0.58	0.30	ND	0.50	0.43	0.35	0.14	0.44	0.43	1.25	0.91	ND	0.63
2014	1.11	0.88	0.50	0.15	ND	0.51	0.34	0.34	0.24	0.43	0.56	1.37	0.83	ND	0.80
2015	0.65	0.90	0.45	0.10	0.26	0.33	0.28	0.27	0.09	0.38	0.39	1.34	0.53	ND	0.58
2016	0.51	0.74	0.50	0.27	0.26	0.38	0.29	0.37	0.11	0.48	0.42	0.80	0.11	ND	0.57
Average	0.75	0.86	0.58	0.39	0.26	0.48	0.42	0.39	0.21	0.59	0.44	0.95	0.89	-	0.59
Max.	1.11	1.09	0.82	0.68	0.26	0.74	0.56	0.65	0.36	0.93	0.63	1.73	1.27	-	0.80
														Average=	0.56

Source: JICA Study Team

Province: Lam Dong District: Lam Ha Code: 4305

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	June-Sept	1,581	50.0	
		Maize	April-May	1,602	51.5	
		Sweet Potato	April-May	230	131.0	
		Cassava	April-May	20	140.0	
		Soybean	April-May	260	12.5	
	Other					
	Dry Season	Paddy	Dec-Jan	March-April	1,100	47.0
		Maize	Nov-Dec	Feb-March	30	50.0
		Sweet Potato	Nov-Dec	Feb-March	19	119.0
		Cassava			-	-
Soybean		Nov-Dec	Feb-March	17	11.0	
Perennial Crops	Fruit Crop	May-Aug		637	175.0	
	Coffee	May-Aug	Sep-Dec	40,242	28.5	
	Rubber			-	-	
	Tea	May-Aug	May-Nov	313	95.0	
	Cashew			-	-	

Province: Lam Dong District: Cat Tien Code: 4312

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	April-May	July-Aug	5,160	54.3
		Maize	April-May	July-Aug	547	60.0
		Sweet Potato	April-May	July-Aug	150	97.0
		Cassava	April-May	March-April	175	125.0
		Soybean	April-May	July-Aug	22	10.0
	Other					
	Dry Season	Paddy	Nov-Dec	Feb-April	4,020	63.6
		Maize	Nov-Dec	Feb-March	322	70.4
		Sweet Potato	Nov-Dec	Feb-March	56	94.3
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	May-Aug		652	73.0	
	Coffee	May-Aug	Sep-Dec	380	21.0	
	Rubber	May-Aug		362	-	
	Tea			-	-	
	Cashew	May-Aug	Feb-April	5,549	7.6	

Province: Lam Dong District: Don Duong Code: 4306

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	June-July	Sep-Oct	2,800	56.0
		Maize	April-May	July-Aug	976	53.5
		Sweet Potato	April-May	July-Aug	380	157.0
		Cassava			-	-
		Soybean	April-May	July-Aug	30	12.0
	Other					
	Dry Season	Paddy	Jan-Feb	April-May	962	44.0
		Maize	Nov-Dec	Feb-March	130	50.0
		Sweet Potato	Nov-Dec	Feb-March	53	-
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	May-Aug		1,631	148.0	
	Coffee	May-Aug	Sep-Dec	1,498	28.0	
	Rubber	May-Aug		300	-	
	Tea			-	-	
	Cashew			-	-	

Province: Lam Dong District: Da Teh Code: 4311

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	May-June	Aug-Sept	5,100	47.9
		Maize	April-May	July-Aug	545	67.5
		Sweet Potato	April-May	July-Aug	110	96.0
		Cassava	April-May	March-April	1,100	250.0
		Soybean			-	-
	Other					
	Dry Season	Paddy	Dec-Jan	March-May	1,600	47.0
		Maize	Nov-Dec	Feb-March	1,424	71.0
		Sweet Potato	Nov-Dec	Feb-March	21	94.0
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	May-Aug		393	120.0	
	Coffee	May-Aug	Sep-Dec	505	18.0	
	Rubber	May-Aug		4,145	8.0	
	Tea	May-Aug	May-Nov	143	30.0	
	Cashew	May-Aug	Feb-April	7,131	7.5	

Province: Lam Dong District: Duc Trong Code: 4307

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	June-July	Sep-Oct	3,420	47
		Maize	April-May	July-Aug	3,020	55
		Sweet Potato	April-May	July-Aug	327	62
		Cassava	April-May	March-April	85	180
		Soybean	April-May	July-Aug	45	13
	Other					
	Dry Season	Paddy	Dec-Jan	March-April	962	44
		Maize	Nov-Dec	Feb-March	77	55
		Sweet Potato	Nov-Dec	Feb-March	63	128
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	June-July	Sep-Oct	3,420	47	
	Coffee	May-Aug		867	130	
	Rubber	May-Aug	Sep-Dec	17,585	30	
	Tea	May-Aug	May-Nov	62	95	
	Cashew			-	-	

Province: Lam Dong District: Di Linh Code: 4308

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	June-July	Sep-Oct	1,930	46.0
		Maize	April-May	July-Aug	3,508	50.0
		Sweet Potato			-	-
		Cassava			-	-
		Soybean			-	-
	Other					
	Dry Season	Paddy	Dec-Jan	March-April	1,095	43.0
		Maize			-	-
		Sweet Potato			-	-
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	June-July	Sep-Oct	1,930	46.0	
	Coffee	May-Aug		940	90.0	
	Rubber	May-Aug	Sep-Dec	41,521	27.5	
	Tea	May-Aug	May-Nov	790	90.0	
	Cashew			-	-	

Province: Lam Dong District: Bao Lam Code: 4309

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	June-July	Sep-Oct	29	39
		Maize	April-May	July-Aug	150	45
		Sweet Potato	April-May	July-Aug	45	94
		Cassava	April-May	March-April	150	190
		Soybean			-	-
	Other					
	Dry Season	Paddy			-	-
		Maize			-	-
		Sweet Potato			-	-
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	May-Aug		2,100	117	
	Coffee	May-Aug	Sep-Dec	27,225	28	
	Rubber	May-Aug		4,330	14	
	Tea	May-Aug	May-Nov	13,700	110	
	Cashew	May-Aug	Feb-April	268	6.5	

Province: Lam Dong District: Da Hoai Code: 4310

Crops		Date / Month		Cultivated Area (ha)	Yield (ton/ha)	
		Planting	Harvesting			
Annual Crops	Wet Season	Paddy	May-June	Aug-Sept	295	41.3
		Maize	April-May	July-Aug	352	62.5
		Sweet Potato	April-May	July-Aug	20	100.0
		Cassava	April-May	March-April	120	120.0
		Soybean			-	-
	Other					
	Dry Season	Paddy	Dec-Feb	March-May	62	40.2
		Maize	Nov-Dec	Feb-March	107	66.1
		Sweet Potato			-	-
		Cassava			-	-
Soybean				-	-	
Perennial Crops	Fruit Crop	May-Aug		3,371	91.8	
	Coffee	May-Aug	Sep-Dec	385	12.7	
	Rubber	May-Aug		3,388	46.3	
	Tea	May-Aug	May-Nov	330	63.3	
	Cashew	May-Aug	Feb-April	4,939	9.5	

Source: DARD in 5 provinces of the Central Highlands

AP 3.4.2 Crop Budget by District of Central Highlands in 2015/16

Kon Tum Province

Items	The average of provinces	Districts									
		Kon Tum City	Tu Mo Rong	Dak Ha	Dak To	Ngoc Hoi	Dak Glei	Sa Thay	Kon Plong	Kon Ray	La H'Drai
		1	2	3	4	5	6	7	8	9	10
1. Rice (Winter-Spring Season)											
Production cost (VND '000)	23,580	21,450	20,450	26,550	24,150	23,450	22,650	24,850	22,450	23,450	26,350
Farm inputs	13,400	13,950	12,450	14,050	12,950	13,050	12,450	14,450	12,450	13,050	15,150
Labors	10,180	7,500	8,000	12,500	11,200	10,400	10,200	10,400	10,000	10,400	11,200
Others											
Gross income (VND'000)	27,132	24,900	21,980	28,560	25,320	26,660	23,520	31,680	23,296	27,240	38,160
Unit yield (kg/ha)	4,346	4,150	3,664	4,760	4,220	3,800	3,360	5,280	3,328	4,540	6,360
Unit price (VND/kg)	6,301	6,000	5,999	6,000	6,000	7,016	7,000	6,000	7,000	6,000	6,000
Net Income (VND '000)	3,552	3,450	1,530	2,010	1,170	3,210	870	6,830	846	3,790	11,810
2. Paddy (Summer-Autumn season)											
Production cost (VND '000)	23,580	21,450	20,450	26,550	24,150	23,450	22,650	24,850	22,450	23,450	26,350
Farm inputs	13,400	13,950	12,450	14,050	12,950	13,050	12,450	14,450	12,450	13,050	15,150
Labors	10,180	7,500	8,000	12,500	11,200	10,400	10,200	10,400	10,000	10,400	11,200
Others											
Gross income (VND'000)	27,489	30,000	23,700	28,800	33,840	25,860	27,510	29,400	24,180	24,120	27,480
Unit yield (kg/ha)	4,380	5,000	3,950	4,800	4,280	4,310	3,930	4,900	4,030	4,020	4,580
Unit price (VND/kg)	6,291	6,000	6,000	6,000	7,907	6,000	7,000	6,000	6,000	6,000	6,000
Net Income (VND '000)	3,909	8,550	3,250	2,250	9,690	2,410	4,860	4,550	1,730	670	1,130
3. Maize											
Production cost (VND '000)	15,090	15,150	16,500	16,100	13,665	13,650	13,680	15,365	16,915	15,545	14,325
Farm inputs	7,188	6,600	7,250	7,600	6,915	7,100	6,430	7,820	8,395	7,295	6,475
Labors	7,902	8,550	9,250	8,500	6,750	6,550	7,250	7,545	8,520	8,250	7,850
Others											
Gross income (VND'000)	18,390	18,200	18,680	19,280	17,600	17,680	19,360	18,440	18,180	17,960	18,520
Unit yield (kg/ha)	4,547	4,550	4,670	4,820	4,400	4,420	4,840	4,610	4,040	4,490	4,630
Unit price (VND/kg)	4,050	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,500	4,000	4,000
Net Income (VND '000)	3,301	3,050	2,180	3,180	3,935	4,030	5,680	3,075	1,265	2,415	4,195
4. Cassava:											
Production cost (VND '000)	28,274	26,350	28,160	27,792	28,080	26,230	30,520	29,150	29,870	28,190	28,400
Farm inputs	17,033	15,250	17,950	17,242	16,580	15,780	17,720	17,650	17,870	16,740	17,550
Labors	11,241	11,100	10,210	10,550	11,500	10,450	12,800	11,500	12,000	11,450	10,850
Others											
Gross income (VND'000)	44,673	52,500	35,610	40,500	45,000	48,000	51,000	44,760	37,110	43,950	48,300
Unit yield (kg/ha)	14,891	17,500	11,870	13,500	15,000	16,000	17,000	14,920	12,370	14,650	16,100
Unit price (VND/kg)	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Net Income (VND '000)	16,399	26,150	7,450	12,708	16,920	21,770	20,480	15,610	7,240	15,760	19,900
5. Soybeans:											
Production cost (VND '000)											
Farm inputs											
Labors											
Others											
Gross income (VND'000)											
Unit yield (kg/ha)											
Unit price (VND/kg)											
Net Income (VND '000)											
6. Coffee:											
Production cost (VND '000)	69,825	86,250	71,375	75,000	60,520	59,850	65,090	73,760	61,510	75,070	
Farm inputs	46,101	62,250	47,525	50,550	38,000	37,850	42,590	48,260	36,310	51,570	

Items	The average of provinces	Districts									
		Kon Tum City	Tu Mo Rong	Dak Ha	Dak To	Ngoc Hoi	Dak Glei	Sa Thay	Kon Plong	Kon Ray	La H'Drai
Labors	23,724	24,000	23,850	24,450	22,520	22,000	22,500	25,500	25,200	23,500	
Others											
Gross income (VND'000)	109,876	123,500	78,300	123,900	125,160	84,420	93,240	132,300	96,600	131,460	
Unit yield (kg/ha)	2,603	2,950	1,740	2,950	2,980	2,010	2,220	3,150	2,300	3,130	
Unit price (VND/kg)	42,318	41,864	45,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	
Net Income (VND '000)	40,051	37,250	6,925	48,900	64,640	24,570	28,150	58,540	35,090	56,390	
7. Tea :											
Production cost (VND '000)	71,570		64,200	67,250	72,550				82,280		
Farm inputs	45,320		39,200	42,250	47,550				52,280		
Labors	26,250		25,000	25,000	25,000				30,000		
Others											
Gross income (VND'000)	77,625		72,000	72,000	76,500				90,000		
Unit yield (kg/ha)	16,750		16,000	16,000	17,000				18,000		
Unit price (VND/kg)	4,625		4,500	4,500	4,500				5,000		
Net Income (VND '000)	6,055		7,800	4,750	3,950				7,720		
8. Cashew:											
Production cost (VND '000)	25,387			22,300	25,200	26,570	27,050			25,200	26,000
Farm inputs	12,770			9,700	13,200	13,720	12,800			13,200	14,000
Labors	12,617			12,600	12,000	12,850	14,250			12,000	12,000
Others											
Gross income (VND'000)	50,610			41,160	54,600	56,700	52,500			48,300	50,400
Unit yield (kg/ha)	1,205			980	1,300	1,350	1,250			1,150	1,200
Unit price (VND/kg)	42,000			42,000	42,000	42,000	42,000			42,000	42,000
Net Income (VND '000)	25,223			18,860	29,400	30,130	25,450			23,100	24,400
9. Pepper											
Production cost (VND '000)	158,496	152,000		159,000	160,000		158,500	161,560		158,560	159,850
Farm inputs	96,067	92,000		94,000	100,000		98,500	99,560		93,560	94,850
Labors	62,429	60,000		65,000	60,000		60,000	62,000		65,000	65,000
Others											
Gross income (VND'000)	284,606	267,200		292,000	308,480		276,480	308,480		287,120	252,480
Unit yield (kg/ha)	3,558	3,340		3,650	3,856		3,456	3,856		3,589	3,156
Unit price (VND/kg)	80,000	80,000		80,000	80,000		80,000	80,000		80,000	80,000
Net Income (VND '000)	126,110	115,200		133,000	148,480		117,980	146,920		128,560	92,630

Gia Lai Province

Items	The average of provinces	Districts																
		Pleiku	An Khe	Ayun Pa	Kbang	Dak Doa	Chr Pah	Ia Grai	Mang Yang	Kong Chro	Duc Co	Chu Prong	Chu Se	Dak Po	Ia Pa	Krong Pa	Phu Thien	Chu Puh
1. Rice (Winter- Spring Season)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Production cost (VND'000)	22,286	25,400	23,930	22,610	16,050	8,550	21,300	25,030	31,420	24,950	16,840	23,370	21,200	23,930	22,680	22,745	30,450	18,400
Farm inputs	14,030	17,900	16,430	8,010	13,800	3,850	16,800	10,410	15,620	17,450	6,340	15,370	16,700	16,430	21,000	7,045	27,450	7,900
Labors	8,256	7,500	7,500	14,600	2,250	4,700	4,500	14,620	15,800	7,500	10,500	8,000	4,500	7,500	1,680	15,700	3,000	10,500
Others																		
Gross income (VND)	32,434	33,495	38,920	37,950	27,600	27,500	30,000	30,624	35,750	33,000	23,920	38,500	27,600	38,448	35,750	23,650	42,000	26,675
Unit yield (kg/ha)	5,659	6,090	5,560	6,900	4,600	5,500	5,000	5,280	6,500	6,000	4,600	7,000	4,600	5,915	6,500	4,300	7,000	4,850
Unit price (VND/kg)	5,735	5,500	7,000	5,500	6,000	5,000	6,000	5,800	5,500	5,500	5,200	5,500	6,000	6,500	5,500	5,500	6,000	5,500
Net Income (VND '000)	10,149	8,095	14,990	15,340	11,550	18,950	8,700	5,594	4,330	8,050	7,080	15,130	6,400	14,518	13,070	905	11,550	8,275
2. Paddy (Summer-Autumn season)																		
Production cost (VND'000)	21,909	25,400	23,930	20,980	14,850	8,550	21,300	25,030	31,020	24,950	16,840	23,370	20,930	23,930	20,980	22,745	29,250	18,400
Farm inputs	13,706	17,900	16,430	7,380	12,600	3,850	16,800	10,410	14,920	17,450	6,340	15,370	16,430	16,430	19,300	7,045	26,450	7,900
Labors	8,203	7,500	7,500	13,600	2,250	4,700	4,500	14,620	16,100	7,500	10,500	8,000	4,500	7,500	1,680	15,700	2,800	10,500

Items	The average of provinces	Districts																
		Pleiku	An Khe	Ayun Pa	Kbang	Dak Doa	Chr Pah	Ia Grai	Mang Yang	Kong Chro	Duc Co	Chu Prong	Chu Se	Dak Po	Ia Pa	Krong Pa	Phu Thien	Chu Puh
Others																		
Gross income (VND)	30,791	31,020	35,028	34,450	26,790	24,750	33,000	29,580	34,100	33,000	22,000	30250	25800	37264.5	32760	24750	40300	28600
Unit yield (kg/ha)	5,407	5,640	5,560	6,500	4,700	4,500	5,500	5,100	6,200	6,000	4,000	5,500	4,300	5,915	6,300	4,500	6,500	5,200
Unit price (VND/kg)	5,694	5,500	6300	5,300	5,700	5,500	6,000	5,800	5,500	5,500	5,500	5,500	6,000	6,300	5,200	5,500	6,200	5,500
Net Income (VND '000)	8,882	5,620	11,098	13,470	11,940	16,200	11,700	4,550	3,080	8,050	5,160	6880	4870	13334.5	11780	2005	11050	10200
3. Maize (Winter-Spring Season)																		
Production cost (VND'000)	16,210			14,230	13,175				22,100	13,282	14,775			22200	17995	6930	21200	
Farm inputs	10,466			5,680	9,425				21,070	3,157	5,275			15700	13755	1930	18200	
Labors	5,744			8,550	3,750				1,030	10,125	9,500			6500	4240	5000	3000	
Others																		
Gross income (VND)	26,468			26,640	24,750				40,000	22,750	19,200			33030	28000	8840	35000	
Unit yield (kg/ha)	6,016			7,200	4,500				8,000	6,500	4,000			7,340	7,000	2,600	7,000	
Unit price (VND/kg)	4,378			3,700	5,500				5,000	3,500	4,800			4,500	4,000	3,400	5,000	
Net Income (VND '000)	10,258			12,410	11,575				17,900	9,468	4,425			10830	10005	1910	13800	
4. Maize (Summer-Autumn season)																		
Production cost (VND'000)	15,796			14,410	13,175				23,300	13,282	14,775	16630	12936	21200	17435	6930	21700	13775
Farm inputs	8,869			5,860	9,425				13,700	3,157	5,275	9270	5436	14700	13195	1930	18200	6275
Labors	6,927			8,550	3,750				9,600	10,125	9,500	7360	7500	6500	4240	5000	3500	7500
Others																		
Gross income (VND)	26,767			28,980	25,300				37,500	26,000	20,000	25080	26250	34498	26000	11600	33750	26250
Unit yield (kg/ha)	5,733			6,900	4,600				7,500	6,500	4,000	4,560	5,250	7,340	6,500	2,900	7,500	5,250
Unit price (VND/kg)	4,700			4,200	5,500				5,000	4,000	5,000	5,500	5,000	4,700	4,000	4,000	4,500	5,000
Net Income (VND '000)	10,972			14,570	12,125				14,200	12,718	5,225	8450	13314	13298	8565	4670	12050	12475
5. Cassava																		
Production cost (VND'000)	24,303		32,700	22,999	20,000	14,200		34,050		31,822	13,700	18100	20820	34730	26200	23600	26500	20820
Farm inputs	12,539		20,000	7,599	16,000	8,200		6,000		17,572	4,200	7200	10320	22030	14800	8800	22500	10320
Labors	11,764		12,700	15,400	4,000	6,000		28,050		14,250	9,500	10900	10500	12700	11400	14800	4000	10500
Others																		
Gross income (VND)	36,325		42,000	40,500	26,600	25,200		46,400		43,050	25,200	30000	33000	48000	39600	32000	45000	32000
Unit yield (kg/ha)	12,025		14,000	13,500	9,500	9,000		16,000		14,350	9,000	10,000	11,000	15,000	12,000	10,000	15,000	10,000
Unit price (VND/kg)	3,014		3,000	3,000	2,800	2,800		2,900		3,000	2,800	3,000	3,000	3,200	3,300	3,200	3,000	3,200
Net Income (VND '000)	12,022		9,300	17,501	6,600	11,000		12,350		11,228	11,500	11900	12180	13270	13400	8400	18500	11180
6. Soybeans																		
Production cost (VND'000)																		
Farm inputs																		
Labors																		
Others																		
Gross income (VND)																		
Unit yield (kg/ha)																		
Unit price (VND/kg)																		
Net Income (VND '000)																		
7. Coffee																		
Production cost (VND'000)	63,371	65,200			38,444	53,540	65,240	52,495	93,769		55800	73140	68040					68040
Farm inputs	35,505	40,200			20,444	17,840	32,240	32,995	51,269		35240	42740	41040					41040
Labors	27,866	25,000			18,000	35,700	33,000	19,500	42,500		20560	30400	27000					27000
Others																		
Gross income (VND)	135,240	126,000			67,200	138,600	126,000	126,000	168,000		138600	168000	126000					168000
Unit yield (kg/ha)	3,220	3,000			1,600	3,300	3,000	3,000	4,000		3,300	4,000	3,000					4,000
Unit price (VND/kg)	42,000	42,000			42,000	42,000	42,000	42,000	42,000		42,000	42,000	42,000					42,000
Net Income (VND '000)	71,869	60,800			28,756	85,060	60,760	73,505	74,232		82800	94860	57960					99960
8. Tea																		

Items	The average of provinces	Districts																
		Pleiku	An Khe	Ayun Pa	Kbang	Dak Doa	Chr Pah	Ia Grai	Mang Yang	Kong Chro	Duc Co	Chu Prong	Chu Se	Dak Po	Ia Pa	Krong Pa	Phu Thien	Chu Puh
Production cost (VND'000)	45,140						44200					46080						
Farm inputs	26,900						25000					28800						
Labors	18,240						19200					17280						
Others																		
Gross income (VND)	76,000						72000					80000						
Unit yield (kg/ha)	16,000						16,000					16,000						
Unit price (VND/kg)	4,750						4,500					5,000						
Net Income (VND '000)	30,860						27800					33920						
9. Cashew																		
Production cost (VND'000)	18,793							18,317			27053	8853			28688	11055		
Farm inputs	8,673							5,717			15053	2453			19088	1055		
Labors	10,120							12,600			12000	6400			9600	10000		
Others																		
Gross income (VND)	50,820							39,900			63000	63000			71400	16800		
Unit yield (kg/ha)	1,210							950			1,500	1,500			1,700	400		
Unit price (VND/kg)	42,000							42,000			42,000	42,000			42,000	42,000		
Net Income (VND '000)	32,027							21,583			35947	54147			42712	5745		
10. Pepper																		
Production cost (VND'000)	145,778	151,363				174710	133,200	256,000			96000	116150	81900					156900
Farm inputs	83,838	90,400				120150	73,200	186,000			36000	76150	44400					44400
Labors	61,940	60,963				54560	60,000	70,000			60000	40000	37500					112500
Others																		
Gross income (VND)	304,950	267,600				316000	240,000	376,000			264000	280000	320000					376000
Unit yield (kg/ha)	3,812	3,345				3,950	3,000	4,700			3,300	3,500	4,000					4,700
Unit price (VND/kg)	80,000	80,000				80,000	80,000	80,000			80,000	80,000	80,000					80,000
Net Income (VND '000)	159,172	116,238				141290	106,800	120,000			168000	163850	238100					219100

Dak Nong Province

Items	The average of provinces	Districts							
		Cur Jut	Krong No	Dak Mil	Dak Song	Dak R'lap	Tuy Duc	Dak Glong	Gia Nghia
		1	2	3	4	5	6	7	8
1.Rice									
Production cost (VND'000)	27,512	28,010	32,420	27,885	30,070	25,105	19,700	27,850	29,052
Farm inputs	12,898	12,510	14,520	13,335	13,510	10,105	10,900	13,750	14,552
Labors	14,614	15,500	17,900	14,550	16,560	15,000	8,800	14,100	14,500
Others									
Gross income (VND'000)	32,729	35,960	42,840	34,200	34,200	30,870	20,400	30,360	33,000
Unit yield (kg/ha)	5,250	5,800	6,300	5,700	5,700	4,900	4,000	4,600	5,000
Unit price (VND/kg)	6,200	6,200	6,800	6,000	6,000	6,300	5,100	6,600	6,600
Net Income (VND'000)	5,217	7,950	10,420	6,315	4,130	5,765	700	2,510	3,948
2.Maize									
Production cost (VND'000)	25,269	26,000	28,920	25,970	27,878	25,202	24,315	20,320	23,550
Farm inputs	14,725	16,000	17,420	15,420	16,120	14,987	13,451	10,952	13,450
Labors	10,544	10,000	11,500	10,550	11,758	10,215	10,864	9,368	10,100
Others									
Gross income (VND'000)	28,787	30,336	33,193	29,772	35,922	26,289	23,701	25,955	25,127
Unit yield (kg/ha)	5,875	6,191	6,774	6,076	7,331	5,365	4,837	5,297	5,128
Unit price (VND/kg)	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900
Net Income (VND'000)	3,518	4,336	4,273	3,802	8,044	1,087	-614	5,635	1,577
3.Cassava									
Production cost (VND'000)	10,788	11,000	11,500	10,700	11,100	10,400	10,000	10,200	11,400

Items	The average of provinces	Districts								
		Cư Jut	Krong No	Dak Mil	Dak Song	Dak R'lap	Tuy Duc	Dak Glong	Gia Nghia	
Farm inputs										
Labors										
Others										
Gross income (VND'000)	25,479	21,930	34,000	28,900	22,100	25,500	27,200	22,100	22,100	
Unit yield (kg/ha)	14,988	12,900	20,000	17,000	13,000	15,000	16,000	13,000	13,000	
Unit price (VND/kg)	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	
Net Income (VND'000)	14,691	10,930	22,500	18,200	11,000	15,100	17,200	11,900	10,700	
4. Soybean										
Production cost (VND'000)	27,304	30,000	29,250	28,951	25,791	25,650		25,705	25,782	
Farm inputs	15,621	17,000	16,530	15,987	14,576	15,000		15,475	14,780	
Labors	11,683	13,000	12,720	12,964	11,215	10,650		10,230	11,002	
Others										
Gross income (VND'000)	35,464	37,900	34,110	28,425	47,375	47,375		22,740	30,320	
Unit yield (kg/ha)	1,871	2,000	1,800	1,500	2,500	2,500		1,200	1,600	
Unit price (VND/kg)	18,950	18,950	18,950	18,950	18,950	18,950		18,950	18,950	
Net Income (VND'000)	8,159	7,900	4,860	-526	21,584	21,725		-2,965	4,538	
5. Coffee :										
Production cost (VND'000)	71,764	72,350	73,350	86,350	74,350	76,350	66,350	56,660	68,350	
Farm inputs	28,039	30,000	30,000	30,000	30,000	30,000	30,000	14,310	30,000	
Labors	42,375	41,000	42,000	55,000	43,000	45,000	35,000	41,000	37,000	
Others	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	
Gross income (VND'000)	93,500	89,250	97,750	106,250	102,000	97,750	89,250	76,500	89,250	
Unit yield (kg/ha)	2,200	2,100	2,300	2,500	2,400	2,300	2,100	1,800	2,100	
Unit price (VND/kg)	42,500	42,500	42,500	42,500	42,500	42,500	42,500	42,500	42,500	
Net Income (VND'000)	21,736	16,900	24,400	19,900	27,650	21,400	22,900	19,840	20,900	
6. Tea :										
Production cost (VND'000)	15,733	14,928	15,968	16,075		15,998	15,952	16,010	15,198	
Farm inputs	4,760	4,350	4,753	5,100		5,020	4,852	5,050	4,196	
Labors	10,973	10,578	11,215	10,975		10,978	11,100	10,960	11,002	
Others										
Gross income (VND'000)	145,594	235,420	247,340	214,560		29,800	35,760	143,040	113,240	
Unit yield (kg/ha)	4,886	7,900	8,300	7,200		1,000	1,200	4,800	3,800	
Unit price (VND/kg)	29,800	29,800	29,800	29,800		29,800	29,800	29,800	29,800	
Net Income (VND'000)	129,862	220,492	231,372	198,485		13,802	19,808	127,030	98,042	
7. Cashew										
Production cost (VND'000)	30,426	31,000	33,150	28,420	29,000	31,550	30,500	29,780	30,010	
Farm inputs										
Labors										
Others										
Gross income (VND'000)	43,313	59,500	35,000	38,500	49,000	42,000	28,000	56,000	38,500	
Unit yield (kg/ha)	1,238	1,700	1,000	1,100	1,400	1,200	800	1,600	1,100	
Unit price (VND/kg)	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	
Net Income (VND'000)	12,886	28,500	1,850	10,080	20,000	10,450	-2,500	26,220	8,490	
8. Pepper										
Production cost (VND'000)	207	200,000	205,000	220,000	213,000	217,000	204,000	197,530	201,000	
Farm inputs										
Labors										
Others										
Gross income (VND'000)	476,850	510,000	510,000	510,000	489,600	428,400	469,200	510,000	387,600	
Unit yield (kg/ha)	2,338	2,500	2,500	2,500	2,400	2,100	2,300	2,500	1,900	
Unit price (VND/kg)	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	
Net Income (VND'000)	269,659	310,000	305,000	290,000	276,600	211,400	265,200	312,470	186,600	

Lam Dong Province

Items	The average of provinces	Districts											
		Da Lat	Bao Loc	Dam Rong	Lac Duong	Lam Ha	Don Duong	Duc Trong	Di Linh	Bao Lam	Da Hoai	Da The	Cat Tien
		1	2	3	4	5	6	7	8	9	10	11	12
1. Rice (Summer-Autumn Season)													
Production cost (VND'000)	24,085									24,085	24,085	24,085	24,085
Farm inputs	6,085									6,085	6,085	6,085	6,085
Labors	18,000									18,000	18,000	18,000	18,000
Others													
Gross income (VND'000)	30,954									27,308	28,967	32,326	35,214
Unit yield (kg/ha)	4,534									4,000	4,243	4,735	5,158
Unit price (VND/kg)	6,827									6,827	6,827	6,827	6,827
Net Income (VND'000)	6,869									3,223	4,882	8,241	11,129
2. Rice (Winter- Spring Season)													
Production cost (VND'000)	24,085	24,085		24,085	24,085	24,085	24,085	24,085	24,085	24,085	24,085	24,085	24,085
Farm inputs	6,085	6,085		6,085	6,085	6,085	6,085	6,085	6,085	6,085	6,085	6,085	6,085
Labors	18,000	18,000		18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
Others													
Gross income (VND)	30,771	31,206		28,079	27,308	25,144	34,319	30,619	32,892	27,308	29,308	33,917	38,381
Unit yield (kg/ha)	4,507	4,571		4,113	4,000	3,683	5,027	4,485	4,818	4,000	4,293	4,968	5,622
Unit price (VND/kg)	6,827	6,827		6,827	6,827	6,827	6,827	6,827	6,827	6,827	6,827	6,827	6,827
Net Income (VND '000)	6,686	7,121		3,994	3,223	1,059	10,234	6,534	8,807	3,223	5,223	9,832	14,296
3. Maize													
Production cost (VND'000)	24,314	24,314		24,314	24,314	24,314	24,314	24,314	24,314	24,314	24,314	24,314	24,314
Farm inputs	4,314	4,314		4,314	4,314	4,314	4,314	4,314	4,314	4,314	4,314	4,314	4,314
Labors	20,000	20,000		20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Others													
Gross income (VND)	29,897	27,500		25,575	27,500	25,707	30,591	25,548	28,468	25,372	34,997	40,634	36,977
Unit yield (kg/ha)	5,436	5,000		4,650	5,000	4,674	5,562	4,645	5,176	4,613	6,363	7,388	6,723
Unit price (VND/kg)	5,500	5,500		5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500
Net Income (VND '000)	5,583	3,186		1,261	3,186	1,393	6,277	1,234	4,154	1,058	10,683	16,320	12,663
4. Cassava:													
Production cost (VND'000)	22,480			22,480	22,480	22,480		22,480		22,480	22,480	22,480	22,480
Farm inputs	8,980			8,980	8,980	8,980		8,980		8,980	8,980	8,980	8,980
Labors	13,500			13,500	13,500	13,500		13,500		13,500	13,500	13,500	13,500
Others													
Gross income (VND)	29,736			29,736	29,736	29,736		29,736		29,736	29,736	29,736	29,736
Unit yield (kg/ha)	21,240			21,240	21,240	21,240		21,240		21,240	21,240	21,240	21,240
Unit price (VND/kg)	1,400			1,400	1,400	1,400		1,400		1,400	1,400	1,400	1,400
Net Income (VND '000)	7,256			7,256	7,256	7,256		7,256		7,256	7,256	7,256	7,256
5. Soybean													
Production cost (VND'000)	32,870			32,870		32,870	32,870	32,870					32,870
Farm inputs	5,870			5,870		5,870	5,870	5,870					5,870
Labors	27,000			27,000		27,000	27,000	27,000					27,000
Others													
Gross income (VND)	43,400			43,400		43,400	43,400	43,400					43,400
Unit yield (kg/ha)	1,240			1,240.00		1,240.00	1,240.00	1,240.00					1,240.00
Unit price (VND/kg)	35,000			35,000		35,000	35,000	35,000					35,000
Net Income (VND '000)	10,530			10,530		10,530	10,530	10,530					10,530
6. Coffee:													
Production cost (VND '000)	71,259	51,745	77,764	77,764	51,745	77,764	51,745	77,764	77,764	77,764	77,764	77,764	77,764
Farm inputs													
Labors													
Others													
Gross income (VND'000)	161,318	146,287	175,032	169,402	162,957	177,985	179,769	200,469	175,652	197,330	93,502	103,890	153,539
Unit yield (kg/ha)	2,482	2,251	2,693	2,606	2,507	2,738	2,766	3,084	2,702	3,036	1,438	1,598	2,362
Unit price (VND/kg)	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
Net Income (VND '000)	90,059	94,542	97,269	91,638	111,212	100,222	128,024	122,705	97,889	119,566	15,738	26,127	75,776

Items	The average of provinces	Districts											
		Da Lat	Bao Loc	Dam Rong	Lac Duong	Lam Ha	Don Duong	Duc Trong	Di Linh	Bao Lam	Da Hoai	Da The	Cat Tien
7. Tea:													
Production cost (VND '000)	97,184	97,184	97,184	97,184	97,184	97,184	97,184	97,184	97,184	97,184	97,184	97,184	97,184
Farm inputs													
Labors													
Others													
Gross income (VND'000)	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000
Unit yield (kg/ha)	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Unit price (VND/kg)	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000
Net Income (VND '000)	42,816	42,816	42,816	42,816	42,816	42,816	42,816	42,816	42,816	42,816	42,816	42,816	42,816
8. Cashew:													
Production cost (VND '000)	22,707			22,707					22,707	22,707	22,707	22,707	22,707
Farm inputs													
Labors													
Others													
Gross income (VND'000)	52,713			29,580					76,500	66,426	57,017	42,998	43,759
Unit yield (kg/ha)	1,034			580					1,500	1,302	1,118	843	858
Unit price (VND/kg)	51,000			51,000					51,000	51,000	51,000	51,000	51,000
Net Income (VND '000)	30,006			6,873					53,793	43,719	34,310	20,291	21,052
9. Pepper													
Production cost (VND '000)	149,322		149,322	149,322		149,322	149,322	149,322	149,322	149,322	149,322	149,322	149,322
Farm inputs													
Labors													
Others													
Gross income (VND'000)	185,457		343,538	154,000		276,038	105,875	152,945	217,800	119,296	98,560	202,569	183,944
Unit yield (kg/ha)	2,409		4462	2000		3585	1375	1986	2829	1549	1280	2631	2389
Unit price (VND/kg)	77,000		77,000	77,000		77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000
Net Income (VND '000)	36,135		194,217	4,679		126,716	(43,447)	3,624	68,479	(30,026)	(50,762)	53,248	34,623

Source: DARD in 5 provinces of the Central Highlands

AP 3.4.3 Local Major Market Facilities in Central Highlands

District Code	District/City	Location of Markets (Commune/ Hamlet)	Name of Market	Number of Shops trading at the Markets (No.)	Sales Amount of local Markets (VND Mil./year)
I	39-Kon Tum				
3901	Kon Tum City	Quyết Thang Ward	Kon Tum Trading Center	530	636,352
3901	Kon Tum City	Quyết Thang Ward	Quyết Thang Market	180	216,120
3901	Kon Tum City	Duy Tân Ward	Duy Tân Market	165	198,110
3901	Kon Tum City	Trần Hưng Đạo Ward	Trần Hưng Đạo Market	30	36,020
3901	Kon Tum City	Trương Chính Ward	Võ Lâm Market	25	30,017
3901	Kon Tum City	Thăng Lôi Ward	Đào Duy Tú Market	10	12,007
3907	Dak Ha	Dak Ha Town	Dak Ha Trading Center	546	542,257
3907	Dak Ha	Dak Hring	Dak Hring Market	35	34,760
3907	Dak Ha	Ha Mon	Ha Mon Market	27	26,815
3907	Dak Ha	Dak Ha Town	Vinh Thanh, Phu An Market	50	49,657
3908	Sa Thay	Sa Thay Town	Sa Thay Town Market	286	297,741
3908	Sa Thay	Sa Binh	Sa Binh Market	20	20,821
3908	Sa Thay	Ya Xier	Ya Xier Market	25	26,026
3908	Sa Thay	Ro Koi	Ro Koi Market	25	26,026
3908	Sa Thay	Ho Moong	Ho Moong Market	10	10,411
3904	Dak To	Dak To Town	Dak To Trading Center	256	286,982
3904	Dak To	Dak Tram	Dak Tram Market	16	17,936
3905	Kon Plong	Kon Plong Town	Kon Plong Trading Center	35	108,940
3905	Kon Plong	Dak Tang	Dak Tang Market	10	31,126
3905	Kon Plong	Ngoc Tem	Ngoc Tem Market	10	31,126
3906	Kon Ray	Dak Rve Town	Dak Rve Town Market	25	173,700
3903	Ngoc Hoi	Plei Kan Town	Plei Kan Market	286	307,861
3903	Ngoc Hoi	Dak Duc	Dak Duc Market	10	10,764
3903	Ngoc Hoi	Bo Y Border Gate	Bo Y Market	35	37,675
3902	Dak Glei	Dak Glei	Dak Glei Town Market	28	194,632
3902	Dak Glei	Dak Mon	Dak Mon Market	16	111,218
Sub-Total					3,475,099
II	40-Gia Lai				
4001	Pleiku City	Dien Hong Ward	Pleiku Trading Center	567	363,281
4001	Pleiku City	Phu Hoi Ward	Thân Phong - Phu Hoi Market	52	33,317
4001	Pleiku City	Phu Dong Ward	Phu Dong Market	314	201,182
4001	Pleiku City	Tra Ba Market	Tra Ba Market	231	148,003
4001	Pleiku City	Thăng Lôi Ward	Thăng Lôi Market	130	83,292
4001	Pleiku City	An Phu II Ward	An Phu II Market	204	130,704
4001	Pleiku City	Hoa Lu Ward	Hoa Lu Market	249	159,536
4001	Pleiku City	Thông Nhất Ward	Thông Nhất Market	160	102,513
4001	Pleiku City	Dong Da Ward	Dong Da Market	154	98,669
4001	Pleiku City	Yên Thế Ward	Yên Thế Market	129	82,651
4001	Pleiku City	Bien Ho Commune	Biên Hồ Market	88	56,382
4001	Pleiku City	Tra Da Commune	Trà Đa Market	26	16,658
4001	Pleiku City	Chi Lang Ward	Chi Lăng Market	10	6,407
4001	Pleiku City	Hoi Thuong Ward	Tam Hiệp Market	41	26,269
4001	Pleiku City	Le Loi Ward	Nho Market	50	32,035
4001	Pleiku City	Chu A commune	Chu A Market	56	35,880
4001	Pleiku City	An Phu Commune	An Mỹ Market	10	6,407
4001	Pleiku City	Dien Hong Ward	Night Market	10	6,407
4001	Pleiku City	Yên Đỗ Ward	Bà Định Market	10	6,407
4005	Dak Doa	Dak Doa Town	Dak Doa Market	275	569,091
4005	Dak Doa	Nam Yang Commune	Nam Yang Market	60	124,165
4005	Dak Doa	K'dang Commune	K'dang Market	32	66,222
4016	Phu Thien	Phu Thien town	Phu Thien Market	207	330,428
4016	Phu Thien	Ia Sol commune	Ia Sol Market	29	46,292
4016	Phu Thien	Ia Peng commune	Ia Peng Market	42	67,043
4016	Phu Thien	Ia Ake commune	Yaun Ha Market	60	95,776
4015	Krong Pa	Phu Tuc town	Phu Tuc Market	305	351,706
4015	Krong Pa	Chư RCâm commune	Chư RCâm Market	100	115,313
4015	Krong Pa	Ia Rsum commune	RSuom Market	59	68,035
4015	Krong Pa	Chư Gu commune	Chư Gu Market	10	11,531
4015	Krong Pa	Ia Gsai commune	Ia Gsai Market	10	11,531
4002	An Khe	An Khe town	An Khê Market	350	187,253
4002	An Khe	An Khe town	Đôn Market	75	40,126
4002	An Khe	Tân An Ward	An Tân	86	46,011
4002	An Khe	An Khe town	An Xuyên	82	43,871
4002	An Khe	Cuu An commune	Cuu An	49	26,215
4002	An Khe	Thành An commune	Thành An	57	30,495
4002	An Khe	An Khe town	An Thượng 2	80	42,801
4002	An Khe	An Khe town	Thượng An 1	46	24,610
4002	An Khe	An Khe town	Tú An	45	24,075
4003	Yaun Pa	AJunPa town	AJunPa Market	395	239,044
4003	Yaun Pa	Cheo Reo Ward	Bình Lợi Market	39	23,602
4012	Chu Se	Chư Sê town	Chư Sê town Market	423	475,788
4012	Chu Se	Chư Sê town	Sourthen Chu Sê Market	150	168,719

District Code	District/City	Location of Markets (Commune/ Hamlet)	Name of Market	Number of Shops trading at the Markets (No.)	Sales Amount of local Markets (VND Mil./year)
4012	Chu Se	Chư Sê town	Mỹ Thạch	69	77,611
4012	Chu Se	Bờ Ngoong commune	Bờ Ngoong	10	11,248
4012	Chu Se	Ia Hlôp commune	Ia Hlôp Market	21	23,621
4012	Chu Se	AlBă commune	AlBă	10	11,248
4012	Chu Se	HBông commune	HBông	10	11,248
4012	Chu Se	Ia Blang commune	Ia Blang	15	16,872
4012	Chu Se	Chư Sê town	Cũ Market	10	11,248
4011	Chu Prong	Chu Prong town	Chu Prong Market	150	194,575
4011	Chu Prong	Ia Drang commune	Ia Drang Market	172	223,113
4011	Chu Prong	Thăng Hưng commune	Thăng Hưng Market	97	125,825
4011	Chu Prong	Bàu Cạn commune	Bàu Cạn Market	70	90,802
4011	Chu Prong	Ia Lâu commune	Ia Lâu Market	23	29,835
4011	Chu Prong	Ia Pior commune	Ia Pior Market	70	90,802
4006	Chu Pah	Phủ Hòa town	Phủ Hòa Market	66	119,405
4006	Chu Pah	Ia Nhin commune	Ia Nhin Market	44	79,604
4006	Chu Pah	Ia Ly town	Ia Ly Market	96	173,681
4006	Chu Pah	Hòa Phú commune	Hòa Phú Market	25	45,229
4006	Chu Pah	Nghĩa Hưng commune	Nghĩa Hưng Market	47	85,031
4014	Ia Pa	Ia Mrom commune	Ia Mrom Market	97	186,928
4014	Ia Pa	Kim Tân commune	Kim Tân Market	42	80,938
4014	Ia Pa	Chư Răng commune	Chư Răng Market	24	46,250
4014	Ia Pa	Pờ Tô commune	Pờ Tô Market	34	65,521
4008	Mang Yang	Mang Yang town	Mang Yang Market	256	325,480
4008	Mang Yang	Đăk Djrăng commune	Đăk Djrăng Market	13	16,528
4008	Mang Yang	Ayun commune	Ayun Market	12	15,257
4008	Mang Yang	Hra commune	Hra Market	65	82,641
4013	Dak Po	Dak Po town	Đak Pơ Market	88	121,261
4013	Dak Po	Hà Tam commune	Hà Tam Market	46	63,386
4013	Dak Po		Chí Công Market	68	93,702
4013	Dak Po		An Định Market	10	13,780
4004	Kbang	Kbang town	Kbang Market	283	374,591
4004	Kbang	Nghĩa An commune	Nghĩa An Market	36	47,651
4004	Kbang	Đăk HLơ commune	Đăk HLơ Market	9	11,913
4004	Kbang	Son Lang commune	Son Lang Market	19	25,149
4007	Ia Grai	Ia Kha town	Ia Kha Market	188	525,287
4007	Ia Grai	Ia Krái commune	Ia Krái Market	21	58,676
4007	Ia Grai	Ia Yok commune	Ia Yok Market	10	27,941
4007	Ia Grai	Ia O commune	Ia O Market	10	27,941
4007	Ia Grai	Ia Tô commune	Ia Tô Market	10	27,941
4010	Duc Co	Duc Co town	Duc Co Market	445	447,970
4010	Duc Co	Ia Dom commune	Ia Dom Market	33	33,220
4017	Chu Puh	Chu Puh town	Chu Puh Market	100	101,631
4017	Chu Puh	IaLe commune	IaLe Market	122	123,989
4017	Chu Puh	Ia Hrú commune	Ia Hrú Market	116	117,891
4017	Chu Puh	Ia Blứ commune	Ia Blứ Market	145	147,364
4009	Kong Chro	Kong Chro town	Kong Chro Market	256	322,800
4009	Kong Chro	An Trung commune	An Trung Market	10	12,609
Sub-Total					9,792,979
III	41-Dak Lak				
4101	Buon Ma Thuot City	Thông Nhất Ward	Buôn Ma Thuột Market	1200	619,142
4101	Buon Ma Thuot City	Tân An Ward	Tân An Market	769	396,767
4101	Buon Ma Thuot City	Tân Hòa Ward	Tân Hòa Market	200	103,190
4101	Buon Ma Thuot City	Tân Thành Ward	Tân Thành Market	164	84,616
4101	Buon Ma Thuot City	Tân Lợi Ward	Phan Chu Trinh Market	113	58,303
4101	Buon Ma Thuot City	Thành Công Ward	Thành Công Market	109	56,239
4101	Buon Ma Thuot City	Hoà Khánh commune	Đoàn Kết Market	100	51,595
4101	Buon Ma Thuot City	Hoà Thăng commune	Hòa Thăng Market	210	108,350
4101	Buon Ma Thuot City	Hoà Thuận commune	Đạt Lý Market	166	85,648
4101	Buon Ma Thuot City	Hoà Khánh commune	Village No. 6 Market	61	31,473
4101	Buon Ma Thuot City	Ea Tam Ward	Ea Tam Market	98	50,563
4101	Buon Ma Thuot City	Khánh Xuân Ward	Duy Hòa Market	253	130,536
4101	Buon Ma Thuot City	Ea Tu commune	Ea Tu Market	53	27,345
4101	Buon Ma Thuot City	Tân Lập Ward	Thanh Bình Market	62	31,989
4101	Buon Ma Thuot City	Tân Hoà Ward	Tân Phong Market	60	30,957
4101	Buon Ma Thuot City	Hoà Xuân commune	Hòa Xuân Market	40	20,638
4101	Buon Ma Thuot City	Ea Kao commune	Ea Kao Market	30	15,479
4101	Buon Ma Thuot City	Thành Nhất Ward	Phan Đình Phùng Market	321	165,621
4101	Buon Ma Thuot City	Thành Nhất Ward	Thành Nhất Market	64	33,021
4101	Buon Ma Thuot City	Hoà Phú commune	Hòa Phú Market	174	89,776
4101	Buon Ma Thuot City	Tân Tiến Ward	Temporary Market	335	172,844
4101	Buon Ma Thuot City	Village No. /EaKao commune	EaKao Market	109	56,239
4101	Buon Ma Thuot City	Khánh Xuân Ward	Chi Lăng Market	40	20,638
4101	Buon Ma Thuot City	Tân Thành Ward	Mai Hắc Đê Market	30	15,479
4101	Buon Ma Thuot City	Tự An Ward	Ba Toa Market	40	20,638

District Code	District/City	Location of Markets (Commune/ Hamlet)	Name of Market	Number of Shops trading at the Markets (No.)	Sales Amount of local Markets (VND Mil./year)
4101	Buon Ma Thuot City	Ea Tam Ward	Cầu Sắt Market	30	15,479
4115	Buon Ho Town	Buôn Hồ town	Buôn Hồ Market	415	213,650
4115	Buon Ho Town	Cư Bao commune	Cư Bao Market	400	205,928
4115	Buon Ho Town	Bình Thuận commune	Bình Hoà Market	172	88,549
4115	Buon Ho Town	Bình Thuận commune	Bình Thành Market	71	36,552
4115	Buon Ho Town	Bình Thuận commune	Bình Minh Market	98	50,452
4115	Buon Ho Town	Ea Siên commune	Ea Siên Market	14	7,207
4115	Buon Ho Town	Thống Nhất Ward	Tân Hà Market	57	29,345
4115	Buon Ho Town	Bình Tân Ward	Thống Nhất Market	150	77,223
4115	Buon Ho Town	Bình Tân Ward	Nam Hồng 2 Market	10	5,148
4115	Buon Ho Town	Ea Blang commune	Ea Blang Market	10	5,148
4106	Buon Don	Krông Ana commune	Krông Ana Market	59	50,164
4106	Buon Don	Ea Bar commune	Ea Bar Market	162	137,738
4106	Buon Don	Tân Hoà commune	Tân Hoà Market	83	70,569
4106	Buon Don	Bon Don town	Bon Don Market	95	80,772
4106	Buon Don	Village No.6/Ea Bar commune	Hoài Nhơn Market	10	8,502
4106	Buon Don	Tan Loi/Cuôr Knia commune	Tan Loi Market	63	53,565
4106	Buon Don	Hoà Nam/Ea Nuôl commune	Ea Nuôl Market	54	45,913
4114	Cu Kuin	Village No.22/Ea Ning	Việt Đức 4 Market	10	10,411
4114	Cu Kuin	Village No.8/Ea Tiêu	Trung Hoà Market	263	273,808
4114	Cu Kuin	Village No.9/Ea Tiêu	19/8 Market	62	64,548
4114	Cu Kuin	Village No.2/Ea Hu	Ea Hu Market	74	77,041
4114	Cu Kuin	Village No.4/Ea Hu	An Bình Market	30	31,233
4114	Cu Kuin	Village No.6/EA Bhôk	Việt Đức 3 Market	150	156,164
4114	Cu Kuin	Village No.13/Dray Bhang	Lô 13 Market	50	52,055
4114	Cu Kuin	Kim Phat Village	Hòa Hiệp Market	70	72,877
4107	Cu M'Gar	Quảng Phú Town	Quảng Phú Market	220	391,720
4107	Cu M'Gar	Ea Pôk town	Ea Pôk Market	80	142,444
4107	Cu M'Gar	Village No. 8/Ea Kpam	Ea Kpam Market	50	89,027
4107	Cu M'Gar	Phong Village/Ea Tul	Ea Tul Market	48	85,466
4107	Cu M'Gar	Kohmeh Village	Cuôr Đàng Market	100	178,055
4107	Cu M'Gar	Thôn 5, xã Ea Kiêt	Ea Kiêt Market	105	186,957
4107	Cu M'Gar	Thôn Hiệp Hưng, xã Quảng Hiệp	Quảng Hiệp Market	50	89,027
4107	Cu M'Gar	Buôn Sang, xã Ea	Ea Hđing Market	28	49,855
4102	Ea H'Leo	Ea Đrăng town	Ea Đrăng Market	225	244,417
4102	Ea H'Leo	Village No.2/Ea Nam commune	Ea Nam Market	106	115,148
4102	Ea H'Leo	Village No.6/Ea Khal commune	Ea Khal Market	68	73,868
4102	Ea H'Leo	Thái Village/Ea Sol commune	Ea Sol Market	64	69,523
4102	Ea H'Leo	Villa No.2/Ea Hiao commune	Ea Hiao Market	41	44,538
4102	Ea H'Leo	Village No.2B/Ea H'leo commune	Ea H'leo Market	60	65,178
4102	Ea H'Leo	Village No.3/E Ral commune	Ea Ral Market	84	91,249
4102	Ea H'Leo	Village No.3/E Ral commune	Ea Ral Market	60	65,178
4102	Ea H'Leo	Village No.11/Ea Ral commune	Ea Wy Market	70	76,041
4102	Ea H'Leo	Village No.3/Cư Một commune	Cư Một Market	50	54,315
4108	Ear Kar	Ea Kar town	Ea Kar Market	409	387,898
4108	Ear Kar	T.T. Ea Knôp town	Bình Minh Market	167	158,384
4108	Ear Kar	Xã Ea Đar commune	Ea Đar Market	90	85,356
4108	Ear Kar	Xã Ea Tih commune	Ea Tih Market	120	113,809
4108	Ear Kar	Xã Ea Sa commune	Ea Sar Market	40	37,936
4108	Ear Kar	Xã Ea Ocommune	Ea O Market	95	90,099
4108	Ear Kar	Xã Ea Pal commune	Ea Pal Market	100	94,841
4108	Ear Kar	Village No. 11/Cư Ni commune	721 Market	30	28,452
4108	Ear Kar	Ea Gar Village/Cư Ni commune	Ea Gar Market	31	29,401
4108	Ear Kar	Cư Huê commune	Ea Bar Market	10	9,484
4108	Ear Kar	Cư Jang commune	Cư Jang Market	23	21,813
4103	Ea Sup	Ea Súp town	Ea Súp Market	150	176,285
4103	Ea Sup	Village No. 7/Ea Rôc commune	Ea Rôc Market	100	117,523
4103	Ea Sup	Village No. 5/Ea Lê commune	Ea Lê Market	100	117,523
4103	Ea Sup	Village No. 3/Ea Bung commune	Ea Bung Market	10	11,752
4103	Ea Sup	Ya T Một commune	Ya T Một Market	15	17,628
4103	Ea Sup	Cư Kbang commune	Cư Kbang Market	10	11,752
4112	Krong Ana	Buôn Tráp town	Buôn Tráp Market	100	227,765
4112	Krong Ana	Village No.1/Bình Hoà commune	Thắng Bình Market	10	22,777
4112	Krong Ana	Village No.2/Quảng Điện commune	Điện Bàn Market	17	38,720
4112	Krong Ana	Dray Sáp/Dray Sap commune	Cây Cốc Market	11	25,054
4112	Krong Ana	Dray Sáp/Dray Sap commune	Đông Tâm Market	30	68,330
4112	Krong Ana	Ea Tul/Băng A Đrênh commune	Băng A Đrênh Market	15	34,165
4112	Krong Ana	Tân Hoà Đông/Ea Bông commune	Tân Hoà Đông Market	42	95,661
4112	Krong Ana	Quỳnh Ngọc/Ea Na commune	Quỳnh Ngọc Market	30	68,330
4112	Krong Ana	Buôn Tráp town	Quỳnh Tân Market	10	22,777
4111	Krong Bong	Village No.1/Ea Trul commune	Ea Trul Market	5	8,812
4111	Krong Bong	Hoà Sơn commune	Hoà Sơn Market	46	81,072
4111	Krong Bong	Krông Kmar town	Centre town Market	116	204,443
4111	Krong Bong	Village No.4/Khuê Ngọc Điện commune	Khuê Ngọc Điện Market	10	17,624

District Code	District/City	Location of Markets (Commune/ Hamlet)	Name of Market	Number of Shops trading at the Markets (No.)	Sales Amount of local Markets (VND Mil./year)
4111	Krong Bong	Village No. 5/Hoà Tân commune	Hoà Tân Market	10	17,624
4111	Krong Bong	Village No. 1/Cư Kty commune	Cư Kty Market	40	70,497
4111	Krong Bong	Village No. 5/Hoà Thành commune	Hoà Thành Market	39	68,735
4111	Krong Bong	Village No. 4/Hoà Lê commune	Hoà Lê Market	30	52,873
4111	Krong Bong	Village No. 3/Hoà Phong commune	Hoà Phong Market	10	17,624
4111	Krong Bong	Hoà Sơn commune	Village No. 8 Market	30	52,873
4111	Krong Bong	Hoà Sơn commune	Village No. 2 Market	30	52,873
4111	Krong Bong	Tràm A/Cư Đrăm commune	Cư Đrăm Market	10	17,624
4105	Krong Buk	Pong Drang commune	Pong Drang Market	150	352,169
4105	Krong Buk	Cư Kpô commune	Cư Kpô Market	37	86,868
4104	Krong Nang	Krông Năng town	Krông Năng Market	225	104,098
4104	Krong Nang	Ea Tam commune	Ea Tam Market	209	96,696
4104	Krong Nang	Dliê Ya commune	Dliê Ya Market	80	37,013
4104	Krong Nang	Phủ Lộc commune	Phủ Lộc Market	266	123,067
4104	Krong Nang	Phủ Xuân commune	Phủ Xuân Market	200	92,532
4104	Krong Nang	Tam Giang commune	Tam Giang Market	225	104,098
4104	Krong Nang	Ba Tân commune	Ba Tân (Bãi Bàng)	59	27,297
4104	Krong Nang	Ea Toh commune	Ea Toh Market	330	152,677
4104	Krong Nang	Cư Klông commune	Cư Klông Market	42	19,432
4104	Krong Nang	Ba Hồ commune	Ba Hồ Market	46	21,282
4104	Krong Nang	Phủ Xuân commune	Farm No. 49 Market	65	30,073
4104	Krong Nang	Krông Năng town	Huệ An Market	120	55,519
4104	Krong Nang	Ea Dah commune	Ea Dah Market	10	4,627
4104	Krong Nang	Ea Púk commune	Ea Púk Market	10	4,627
4110	Krong Pak	Ea Kênh commune	Commune centre Market	10	9,535
4110	Krong Pak	Village No. 8/Ea Kly commune	719 Market	50	47,677
4110	Krong Pak	Village No. 1/Ea Kly commune	Chiêu Market	10	9,535
4110	Krong Pak	Ea Knuêch commune	Ea Knuêch Market	200	190,708
4110	Krong Pak	Ea Kuông commune	Commune centre Market	40	38,142
4110	Krong Pak	Hãng 1A Village/Ea Wy commune	Ea Wy Market	10	9,535
4110	Krong Pak	Tân Lập/Ea Yông commune	Ea Yông Market	10	9,535
4110	Krong Pak	Tân Tiên/Hoà An commune	Hoà An Market	15	14,303
4110	Krong Pak	Hoà Thăng/Hoà Đông commune	Hoà Đông Market	10	9,535
4110	Krong Pak	B1 Village/Hoà Tiên commune	Hoà Tiên Market	25	23,838
4110	Krong Pak	Village No. 4/Ea Phê commune	Km 38 Market	220	209,779
4110	Krong Pak	Village No. 5/Ea Phê commune	Km 42 Market	100	95,354
4110	Krong Pak	Krông Búk commune	Krông Búk Market	55	52,445
4110	Krong Pak	Phước An town	Phước An Market	650	619,800
4110	Krong Pak	Village No. 3/Tân Tiên commune	Tân Tiên Market	110	104,889
4110	Krong Pak	Phước Quý/Vụ Bốn commune	Farm No. 718	8	7,628
4113	Lak	Village No. 1/Liên Sơn town	Liên Sơn Market	260	400,634
4113	Lak	Phi Dìh Ja B/Krông Nô commune	Krông Nô Market	15	23,114
4113	Lak	Đoàn Kê 2/Buôn Triết Market	Buôn Triết Market	19	29,277
4109	M'Drak	M'Đrăk town	M'Đrăk Market	209	302,846
4109	M'Drak	Village No. 18/Ea Riêng commune	Ea Riêng Market	50	72,451
4109	M'Drak	Village No. 5/Cư Prao commune	Cư Prao Market	20	28,981
4109	M'Drak	Village No. 5/Ea Mlây commune	Ea Mlây Market	30	43,471
4109	M'Drak	Village No. 7/Ea Mdoal commune	Ea Mdoal Market	35	50,716
Sub-Total					12,990,716
IV 41-Dak Nong					
4203	Cu Jut	Ea Tling town	EaTling Market	235	351,745
4203	Cu Jut	Nam Dong commune	Nam Dong Market	115	172,131
4203	Cu Jut	Đăk Wil commune	Đăk Wil Market	20	29,936
4203	Cu Jut	Đăk Drông commune	Đăk Drông Market	30	44,904
4203	Cu Jut	Ea Pô commune	Ea Pô Market	40	59,872
4203	Cu Jut	Tâm Thăng commune	Tâm Thăng Market	25	37,420
4204	Dak Mil	Đăk Mil town	Đăk Mil Market	235	208,749
4204	Dak Mil	Đức Mạnh commune	Đức Mạnh Market	75	66,622
4204	Dak Mil	Đức Minh commune	Đức Minh Market	128	113,702
4204	Dak Mil	Bình Minh commune	Đăk R'La Market	90	79,947
4204	Dak Mil	Thuận An commune	Thuận An Market	80	71,064
4204	Dak Mil	Đăk Săk commune	Đường Mới Market	115	102,154
4204	Dak Mil	Đăk Găn commune	Đăk Găn Market	75	66,622
4206	Dak Song	Đăk Song town	Đức An Market	225	241,825
4206	Dak Song	Đăk Mol commune	Đăk Hòa - Đăk Mol Market	5	5,374
4206	Dak Song	Năm N'Jang commune	Năm N'Jang Market	135	145,095
4206	Dak Song	Trường Xuân commune	Trường Xuân Market	15	16,122
4206	Dak Song	Đăk N'Drung commune	Đăk N'Drung Market	70	75,234
4201	Gia Nghĩa town	Nghĩa Thành Ward	Gia Nghĩa Market	350	398,790
4205	Krong No	Đăk Mâm town	Đăk Mâm Market	144	161,391
4205	Krong No	Nam Đă commune	Nam Đă Market	140	156,908
4205	Krong No	Đức Xuyên commune	Đức Xuyên Market	120	134,492
4205	Krong No	Năm N'Dir commune	Năm N'Dir Market	50	56,039
4202	Dak Glong	Quảng Khê commune	Quảng Khê Market	175	252,440

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4202	Dak Glong	Quảng Sơn commune	Quảng Sơn Market	85	122,614
4207	Dak Rlap	Kiên Đức town	Kiên Đức Market	250	178,014
4207	Dak Rlap	Quảng Tín commune	Quảng Tín Market	120	85,447
4207	Dak Rlap	Nhân Cơ commune	Nhân Cơ Market	250	178,014
4207	Dak Rlap	Đắk Sin commune	Đắk Sin Market	50	35,603
4207	Dak Rlap	Nghĩa Thăng commune	Nghĩa Thăng Market	150	106,808
4207	Dak Rlap	Nhân Đạo commune	Nhân Đạo Market	10	7,121
4208	Tuy Duc	Đắk R'Tih commune	Đắk R'Tih Market	15	47,123
4208	Tuy Duc	Quảng Trục commune	Quảng Trục Market	90	282,737
Sub-Total					4,092,055
V	43-Lam Dong				
4301	Da Lat City	Ward No.1 - Da Lat	Đà Lạt Center Market	700	556,114
4301	Da Lat City	Ward No.1 - Da Lat	Da Lat Market	630	500,502
4301	Da Lat City	Ward No.2 - Da Lat	Nguyễn Lương Bằng Market	8	6,356
4301	Da Lat City	Ward No.3 - Da Lat	Bùi Thị Xuân Market	35	27,806
4301	Da Lat City	Ward No.3 - Da Lat	Xuân An Market	26	20,656
4301	Da Lat City	Ward No.4 - Da Lat	Đào Duy Từ Market	10	7,944
4301	Da Lat City	Ward No.4 - Da Lat	Nam Thiên Market	10	7,944
4301	Da Lat City	Ward No.5 - Da Lat	Mỹ Thành Market	47	37,339
4301	Da Lat City	Ward No.6 - Da Lat	La Sơn Phu Tử Market	23	18,272
4301	Da Lat City	Ward No.9 - Da Lat	Phan Chu Trinh Market	103	81,828
4301	Da Lat City	Ward No.9 - Da Lat	Chi Lăng Market	34	27,011
4301	Da Lat City	Ward No.10 - Da Lat	Yersin Market	20	15,889
4301	Da Lat City	Ward No.11 - Da Lat	Trại Mát Market	15	11,917
4301	Da Lat City	Ward No.12 - Da Lat	Đà Lạt Agricultural Market	103	81,828
4301	Da Lat City	Ward No.12 - Da Lat	Thái Phiên Market	52	41,311
4301	Da Lat City	Xuân Thọ commune	Xuân Thọ Market	24	19,067
4301	Da Lat City	Trạm Hành commune	Trạm Hành Market	17	13,506
4301	Da Lat City	Xuân Trường commune	Cầu Đất Market	30	23,833
4301	Da Lat City	Tà Nung commune	Tà Nung Market	5	3,972
4301	Da Lat City	Ward No.1 - Da Lat	Night Market	50	39,722
4309	Bao Lam	Lộc Thắng town	Loc Thang Central Market	464	708,252
4309	Bao Lam	Quảng Lập commune	Quảng Lập Market	20	30,528
4309	Bao Lam	Lộc An commune	Lộc An Market	30	45,792
4309	Bao Lam	Lộc Thành commune	Lộc Thành Market	25	38,160
4310	Da Huoi	Madaguoi town	Madaguoi Market	65	129,135
4310	Da Huoi	ĐaM'ri town	ĐaM'ri Market	52	103,308
4310	Da Huoi	Đạm Ploa commune	Đạm Ploa Market	10	19,867
4305	Lam Ha	Đình Văn town	Đình Văn central Market	406	494,466
4305	Lam Ha	Nam Ban town	Nam Ban Market	112	136,404
4305	Lam Ha	Tân Hà commune	Tân Hà Market	229	278,898
4305	Lam Ha	Gia Lâm commune	Gia Lâm Market	34	41,408
4305	Lam Ha	Tân Thành commune	Tân Thành Market	52	63,331
4305	Lam Ha	Phủ Sơn commune	Phủ Sơn Market	10	12,179
4304	Lac Duong	Lạc Duong town	Lạc Duong Market	30	149,985
4307	Duc Trong	Hiệp Thạnh commune	Phi Nôm Market	150	130,702
4307	Duc Trong	Bình Thạnh commune	Bình Thạnh Market	33	28,755
4307	Duc Trong	Liên Hiệp commune	Liên Hiệp Market	75	65,351
4307	Duc Trong	Liên Nghĩa Town	Liên Nghĩa Market	741	645,670
4307	Duc Trong	Phủ Hội commune	Phước Hải Market	4	3,485
4307	Duc Trong	Tân Hội commune	Tân Hội Market	120	104,562
4307	Duc Trong	Ninh Gia commune	Ninh Gia Market	66	57,509
4307	Duc Trong	Ninh Loan commune	Ninh Loan Market	30	26,140
4307	Duc Trong	Đà Loan commune	Đà Loan Market	159	138,545
4307	Duc Trong	Liên Nghĩa Town	Đức Trọng Agricultural Market	55	47,924
4306	Don Duong	Thanh Mỹ town	Thanh Mỹ Market	250	240,489
4306	Don Duong	Lạc Lâm commune	Lạc Lâm Market	88	84,652
4306	Don Duong	Quảng Lập commune	Quảng Lập Market	30	28,859
4306	Don Duong	Lạc Xuân commune	Lạc Xuân Market	20	19,239
4306	Don Duong	Dran town	Lạc Nghiệp Market	105	101,006
4306	Don Duong	Ka Đô commune	Ka Đô Market	200	192,391
4306	Don Duong	Ka Đơn commune	Ka Đơn Market	10	9,620
4306	Don Duong	Pro commune	Pro Market	15	14,429
4306	Don Duong	Tutra commune	Tutra Market	20	19,239
4312	Cat Tien	Cát Tiên town	Cát Tiên Market	168	111,348
4312	Cat Tien	Phù Mỹ commune	Phù Mỹ Market	20	13,256
4312	Cat Tien	Nam Ninh commune	Nam Ninh Market	5	3,314
4312	Cat Tien	Tiền Hoàng commune	Tiền Hoàng Market	15	9,942
4312	Cat Tien	Phước Cát 2 commune	Phước Cát 2 Market	3	1,988
4312	Cat Tien	Phước Cát 1 commune	Phước Cát 1 Market	117	77,546
4312	Cat Tien	Đức Phổ commune	Đức Phổ Market	30	19,884
4312	Cat Tien	Gia Viên commune	Gia Viên Market	59	39,104
4308	Di Linh	Di Linh town	Di Linh central Market	130	532,148
4308	Di Linh	Gia Hiệp commune	Gia Hiệp Market	27	110,523

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4308	Di Linh	Hoa Ninh commune	Hoa Ninh Market	40	163,738
4308	Di Linh	Đình Lạc commune	Đình Lạc Market	73	298,821
4308	Di Linh	Hòa Nam commune	Hòa Nam Market	12	49,121
4311	Đa Têh	Đạ Lây commune	Đạ Lây Market	63	48,726
4311	Đa Têh	Triệu Hải commune	Triệu Hải Market	23	17,789
4311	Đa Têh	Đạ Têh town	Đạ Têh Market	340	262,966
4302	Bao Loc city	Bảo Lộc city	Bao Loc city supermarket	720	640,512
4302	Bao Loc city	Đại Lào commune	Đại Lào Market	315	280,224
4302	Bao Loc city	Lộc Châu commune	Tân Bửi Market	60	53,376
4302	Bao Loc city	Lộc Phát Ward	Lộc Phát Market	58	51,597
4302	Bao Loc city	Lộc Thanh commune	Lộc Thanh Market	30	26,688
4302	Bao Loc city	Lộc Nga commune	Lộc Nga Market	30	26,688
4302	Bao Loc city	Đạm Bửi commune	Đạm Bửi Market	32	28,467
4302	Dam Rong	Đạ Rsal commuen	Đạ Rsal Market	100	319,018
Sub-Total					8,939,881

Notes: - Major trading goods are foods Product; processed technical products; clothing and aquacultural products;
 - There is no market in TuMoRong and Ia H'Drai. The people in two districts visit the local markets in Dak Ha and Sa Thay;

Source: - DOITs, Statistics Books in Central Highlands and Vietnam Household Living Standards Survey 2014

AP 3.5.1 Inventory and Existing Irrigation Systems in Central Highlands

Kon Tum Province

District	Irrigation System	Irrigation Facilities				Irrigation Canal			
		No. of Existing				Existing Length [km]			Planned Length [km]
		Type	Number	Service Area [ha]	Function	Type	Concrete	Temporary (Earth)	Concrete
Kon Tum City	PPC(IMC)	Weir	5	661	Support Irrigation	MainCanal	33	6	6
		Reservoir	9	1,866	Support Irrigation	Secondary Canal	60	6	6
		Pumping Station	7	775	Support Irrigation		-	-	-
	DPC, CPC and Cooperatives	Weir	13	135	Support Irrigation	Secondary Canal	15	0	-
		Reservoir	0	0	-	Tertiary	7	3	3
		Pumping Station	0	0	-		-	-	-
Dak To	PPC(IMC)	Weir	18	372	Support Irrigation	MainCanal	52	4	4
		Reservoir	14	1,308	Support Irrigation	Secondary Canal	4	3	3
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	35	288	Support Irrigation	Secondary Canal	23	4	4
		Reservoir	0	0	-	Tertiary	9	5	5
		Pumping Station	0	0	-		-	-	-
Ngoc Hoi	PPC(IMC)	Weir	4	235	Support Irrigation	MainCanal	33	0	0
		Reservoir	6	897	Support Irrigation	Secondary Canal	17	1	1
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	20	164	Support Irrigation	Secondary Canal	18	5	5
		Reservoir	2	10	Support Irrigation	Tertiary	1	5	5
		Pumping Station	0	0	-		-	-	-
Dak Glei	PPC(IMC)	Weir	3	98	Support Irrigation	MainCanal	12	3	3
		Reservoir	4	178	Support Irrigation	Secondary Canal	11	2	2
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	67	583	Support Irrigation	Secondary Canal	79	10	10
		Reservoir	0	0	-	Tertiary	0	8	8
		Pumping Station	0	0	-		-	-	-
Dak Ha	PPC(IMC)	Weir	8	598	Support Irrigation	MainCanal	126	25	25
		Reservoir	22	4,109	Support Irrigation	Secondary Canal	3	5	5
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	27	406	Support Irrigation	Secondary Canal	36	4	4
		Reservoir	7	156	Support Irrigation	Tertiary	5	3	3
		Pumping Station	0	0	-		-	-	-
Sa Thay	PPC(IMC)	Weir	23	667	Support Irrigation	MainCanal	48	25	25
		Reservoir	9	433	Support Irrigation	Secondary Canal	18	5	5
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	26	127	Support Irrigation	Secondary Canal	23	4	4
		Reservoir	0	0	-	Tertiary	4	2	2
		Pumping Station	0	0	-		-	-	-
Tu Mo Rong	PPC(IMC)	Weir	2	38	Support Irrigation	MainCanal	7	0	0
		Reservoir	2	255	Support Irrigation	Secondary Canal	12	0	0
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	65	610	Support Irrigation	Secondary Canal	78	5	5
		Reservoir	0	0	-	Tertiary	8	6	6
		Pumping Station	0	0	-		-	-	-
Kon Ray	PPC(IMC)	Weir	11	570	Support Irrigation	MainCanal	28	0	0
		Reservoir	3	90	Support Irrigation	Secondary Canal	12	0	0
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	22	133	Support Irrigation	Secondary Canal	24	2	2
		Reservoir	0	0	-	Tertiary	4	1	1
		Pumping Station	0	0	-		-	-	-
Kon Plong	PPC(IMC)	Weir	23	639	Support Irrigation	MainCanal	45	0	0
		Reservoir	2	45	Support Irrigation	Secondary Canal	12	0	0
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	33	208	Support Irrigation	Secondary Canal	15	2	2
		Reservoir	0	0	-	Tertiary	4	5	5
		Pumping Station	0	0	-		-	-	-
Ia H'Drai	PPC(IMC)	Weir	0	0	-	MainCanal	-	-	-
		Reservoir	0	0	-	Secondary Canal	-	-	-
		Pumping Station	0	0	-		-	-	-
	DPC, CPC and Cooperatives	Weir	0	0	-	Secondary Canal	-	-	-
		Reservoir	0	0	-	Tertiary	-	-	-
		Pumping Station	0	0	-		-	-	-

Gia Lai Province

District	Irrigation System	Irrigation Facilities				Irrigation Canal			
		No. of Existing				Existing Length [km]			Planned Length [km]
		Type	Number	Service Area [ha]	Function	Type	Concrete	Temporary (Earth)	Concrete
Pleiku City	PPC(IMC)	Weir	5	1,172	Support Irrigation	MainCanal			
		Reservoir	1	2,300	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	3	175	Support Irrigation	Secondary Canal			
		Reservoir	2	90	Support Irrigation	Tertiary			
An Khe	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	0	0	-	Secondary Canal			
		Reservoir	9	122	Support Irrigation	Tertiary			
Ayun Pa	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	1,770	Support Irrigation	Secondary Canal			
		Pumping Station	2	65	Support Irrigation				
	DPC, CPC, cooperatives and local enterprises	Weir	1	60	Support Irrigation	Secondary Canal			
		Reservoir	0	0	-	Tertiary			
Kbang	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				

District	Irrigation System	Irrigation Facilities				Irrigation Canal			
		No. of Existing				Existing Length [km]			Planned Length [km]
		Type	Number	Service Area [ha]	Function	Type	Concrete	Temporary (Earth)	Concrete
	DPC, CPC, cooperatives and local enterprises	Weir	32	683	Support Irrigation	Secondary Canal			
		Reservoir	3	210	Support Irrigation	Tertiary			
		Pumping Station	1	30	Support Irrigation				
Dak Doa	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	27	1,583	Support Irrigation	Secondary Canal			
		Reservoir	2	70	Support Irrigation	Tertiary			
		Pumping Station	0	0	-				
Chu Pah	PPC(IMC)	Weir	1	120	Support Irrigation	MainCanal			
		Reservoir	1	450	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	13	747	Support Irrigation	Secondary Canal			
		Reservoir	3	520	Support Irrigation	Tertiary			
		Pumping Station	5	401	Support Irrigation				
Ia Grai	PPC(IMC)	Weir	1	2,300	Support Irrigation	MainCanal			
		Reservoir	1	500	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	20	2,245	Support Irrigation	Secondary Canal			
		Reservoir	47	4,165	Support Irrigation	Tertiary			
		Pumping Station	0	0	-				
Mang Yang	PPC(IMC)	Weir	2	370	Support Irrigation	MainCanal			
		Reservoir	2	365	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	16	555	Support Irrigation	Secondary Canal			
		Reservoir	0	0	-	Tertiary			
		Pumping Station	3	195	Support Irrigation				
Krong Cho	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	11	265	Support Irrigation	Secondary Canal			
		Reservoir	1	10	Support Irrigation	Tertiary			
		Pumping Station	1	20	Support Irrigation				
Duc Co	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	7	283	Support Irrigation	Secondary Canal			
		Reservoir	7	263	Support Irrigation	Tertiary			
		Pumping Station	0	0	-				
Chu Prong	PPC(IMC)	Weir	2	720	Support Irrigation	MainCanal			
		Reservoir	3	1,480	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	14	352	Support Irrigation	Secondary Canal			
		Reservoir	15	3,725	Support Irrigation	Tertiary			
		Pumping Station	3	202	Support Irrigation				
Chu Se	PPC(IMC)	Weir	3	730	Support Irrigation	MainCanal			
		Reservoir	2	1,895	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	12	1,374	Support Irrigation	Secondary Canal			
		Reservoir	1	400	Support Irrigation	Tertiary			
		Pumping Station	1	250	Support Irrigation				
Dak Po	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	2	17	Support Irrigation	Secondary Canal			
		Reservoir	7	153	Support Irrigation	Tertiary			
		Pumping Station	2	205	Support Irrigation				
Ia Pa	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	0	4,520	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	0	0	-	Secondary Canal			
		Reservoir	0	0	-	Tertiary			
		Pumping Station	16	1,400	Support Irrigation				
Krong Pa	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	1	5,150	Support Irrigation	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	4	720	Support Irrigation	Secondary Canal			
		Reservoir	3	725	Support Irrigation	Tertiary			
		Pumping Station	3	290	Support Irrigation				
Phu Thien	PPC(IMC)	Weir	0	0	-	MainCanal			
		Reservoir	1	13,500	Support Irrigation	Secondary Canal			
		Pumping Station	1	20	Support Irrigation				
	DPC, CPC, cooperatives and local enterprises	Weir	0	0	-	Secondary Canal			
		Reservoir	0	0	-	Tertiary			
		Pumping Station	3	136	Support Irrigation				
Chu Puh	PPC(IMC)	Weir	2	360	Support Irrigation	MainCanal			
		Reservoir	0	0	-	Secondary Canal			
		Pumping Station	0	0	-				
	DPC, CPC, cooperatives and local enterprises	Weir	7	642	Support Irrigation	Secondary Canal			
		Reservoir	0	0	-	Tertiary			
		Pumping Station	0	0	-				

Dak Lak Province

District	Irrigation System	Irrigation Facilities				Irrigation Canal					
		No. of Existing		No. of Planned		Existing Length [km]			Planned Length [km]		
		Type	Number	Service Area [ha]	Function	Number	Service Area [ha]	Type	Concrete	Temporary (Earth)	Concrete
Buon Ma Thuot City	PPC (IMC)	Weir	2	797	Support Irrigation	0	0	MainCanal	121		
		Reservoir	7	1,421	Support Irrigation	11	2,260	Secondary Canal	24		
		Pumping Station	0	0	Support Irrigation	1	75	Tertiary	37		
	DPC	Weir	5	216	Support Irrigation	0	0				
		Reservoir	17	944	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Ea H'Leo	PPC (IMC)	Weir	3	173	Support Irrigation	0	0	MainCanal	17		
		Reservoir	34	3,008	Support Irrigation	73	23,265	Secondary Canal	-		
		Pumping Station	0	0	Support Irrigation	1	70	Tertiary	13		
	DPC	Weir	0	0	Support Irrigation	0	0				
		Reservoir	2	155	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Ea Sup	PPC (IMC)	Weir	0	0	Support Irrigation	0	0	MainCanal	268		
		Reservoir	3	144	Support Irrigation	15	11,080	Secondary Canal	200		
		Pumping Station	0	0	Support Irrigation	0	0	Tertiary	0		
	DPC	Weir	0	0	Support Irrigation	0	0				
		Reservoir	0	0	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Krong Nang	PPC (IMC)	Weir	0	0	Support Irrigation	4	350	MainCanal	21		
		Reservoir	19	1,705	Support Irrigation	75	16,043	Secondary Canal	-		
		Pumping Station	0	0	Support Irrigation	0	0	Tertiary	20		
	DPC	Weir	2	80	Support Irrigation	0	0				
		Reservoir	45	2,699	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Krong Buk	PPC (IMC)	Weir	0	0	Support Irrigation	0	0	MainCanal	22		
		Reservoir	19	1,547	Support Irrigation	51	10,475	Secondary Canal	-		
		Pumping Station	0	0	Support Irrigation	0	0	Tertiary	22		
	DPC	Weir	0	0	Support Irrigation	0	0				
		Reservoir	15	1,190	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Buon Don	PPC (IMC)	Weir	4	867	Support Irrigation	2	200	MainCanal	74		
		Reservoir	6	257	Support Irrigation	4	1,050	Secondary Canal	44		
		Pumping Station	0	0	Support Irrigation	5	1,150	Tertiary	1		
	DPC	Weir	5	164	Support Irrigation	0	0				
		Reservoir	2	261	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Cu M'Gar	PPC (IMC)	Weir	10	583	Support Irrigation	5	540	MainCanal	151		
		Reservoir	26	2,783	Support Irrigation	49	10,704	Secondary Canal	76		
		Pumping Station	0	0	Support Irrigation	0	0	Tertiary	28		
	DPC	Weir	7	653	Support Irrigation	0	0				
		Reservoir	1	51	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Ea Kar	PPC (IMC)	Weir	1	42	Support Irrigation	0	0	MainCanal	55		
		Reservoir	18	1,662	Support Irrigation	39	3,553	Secondary Canal	18		
		Pumping Station	1	187	Support Irrigation	1	200	Tertiary	15		
	DPC	Weir	1	20	Support Irrigation	0	0				
		Reservoir	19	777	Support Irrigation	0	0				
		Pumping Station	2	135	Support Irrigation	0	0				
M' Drak	PPC (IMC)	Weir	1	80	Support Irrigation	1	10	MainCanal	34		
		Reservoir	14	1,325	Support Irrigation	27	1,497	Secondary Canal	6		
		Pumping Station	0	0	Support Irrigation	0	0	Tertiary	14		
	DPC	Weir	9	138	Support Irrigation	0	0				
		Reservoir	35	1,315	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Krong Pak	PPC (IMC)	Weir	20	581	Support Irrigation	1	90	MainCanal	348		
		Reservoir	15	2,914	Support Irrigation	12	2,033	Secondary Canal	217		
		Pumping Station	3	381	Support Irrigation	5	525	Tertiary	92		
	DPC	Weir	16	292	Support Irrigation	0	0				
		Reservoir	46	2,343	Support Irrigation	0	0				
		Pumping Station	4	342	Support Irrigation	0	0				
Krong Bong	PPC (IMC)	Weir	2	622	Support Irrigation	8	865	MainCanal	187		
		Reservoir	13	1,122	Support Irrigation	30	3,420	Secondary Canal	93		
		Pumping Station	1	56	Support Irrigation	11	3,475	Tertiary	59		
	DPC	Weir	14	604	Support Irrigation	0	0				
		Reservoir	4	106	Support Irrigation	0	0				
		Pumping Station	1	60	Support Irrigation	0	0				
Krong Ana	PPC (IMC)	Weir	1	90	Support Irrigation	0	0	MainCanal	87		
		Reservoir	13	1,435	Support Irrigation	16	3,110	Secondary Canal	49		
		Pumping Station	0	0	Support Irrigation	11	2,560	Tertiary	30		
	DPC	Weir	1	13	Support Irrigation	0	0				
		Reservoir	15	1,157	Support Irrigation	0	0				
		Pumping Station	1	83	Support Irrigation	0	0				
Lak	PPC (IMC)	Weir	15	1,593	Support Irrigation	5	268	MainCanal	83		
		Reservoir	19	1,228	Support Irrigation	27	3,397	Secondary Canal	35		
		Pumping Station	5	226	Support Irrigation	11	2,485	Tertiary	29		
	DPC	Weir	0	0	Support Irrigation	0	0				
		Reservoir	0	0	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				
Cu Kuin	PPC (IMC)	Weir	2	0	Support Irrigation	4	460	MainCanal	38		
		Reservoir	10	1,346	Support Irrigation	14	1,641	Secondary Canal	13		
		Pumping Station	0	0	Support Irrigation	2	470	Tertiary	10		
	DPC	Weir	18	693	Support Irrigation	0	0				
		Reservoir	10	390	Support Irrigation	0	0				
		Pumping Station	1	15	Support Irrigation	0	0				
Buon Ho	PPC (IMC)	Weir	1	139	Support Irrigation	0	0	MainCanal	57		
		Reservoir	20	2,329	Support Irrigation	40	7,721	Secondary Canal	20		
		Pumping Station	0	0	Support Irrigation	0	0	Tertiary	26		
	DPC	Weir	1	66	Support Irrigation	0	0				
		Reservoir	23	1,526	Support Irrigation	0	0				
		Pumping Station	0	0	Support Irrigation	0	0				

Dak Nong Province

District	Irrigation System	Irrigation Facilities				Irrigation Canal			
		No. of Existing				Existing Length [km]			Existing Length [km]
		Type	Number	Service Area [ha]	Function	Type	Concrete	Temporary (Earth)	Concrete
Gia Nghia	PPC(IMC)	Weir	0			Main Canal	2		
		Reservoir	15	2969	Support Irrigation	Secondary Canal	-		
		Pumping Station	0						
	DPC	Weir	0			Secondary Canal	-		
		Reservoir	2	110	Support Irrigation	Tertiary	-		
		Pumping Station							
Dak G'long	PPC(IMC)	Weir	0			Main Canal	6		
		Reservoir	30	3586	Support Irrigation	Secondary Canal			
		Pumping Station							
	DPC	Weir	1	14	Support Irrigation	Secondary Canal	-		
		Reservoir	13			Tertiary	-		
		Pumping Station							
Cu Jut	PPC(IMC)	Weir	0			Main Canal	17		
		Reservoir	8	3098	Support Irrigation	Secondary Canal	6		
		Pumping Station	1	214	Support Irrigation				
	DPC	Weir	0			Secondary Canal			
		Reservoir	4	1035	Support Irrigation	Tertiary	2		
		Pumping Station							
Dak Mil	PPC(IMC)	Weir	0			Main Canal	6		
		Reservoir	33	5045	Support Irrigation	Secondary Canal	37		
		Pumping Station	1	208	Support Irrigation				
	DPC	Weir	0			Secondary Canal	23		
		Reservoir	0			Tertiary	7		
		Pumping Station							
Krong No	PPC(IMC)	Weir	1	166	Support Irrigation	Main Canal	18		
		Reservoir	9	2053	Support Irrigation	Secondary Canal	29		
		Pumping Station	3	1211	Support Irrigation				
	DPC	Weir	0			Secondary Canal			
		Reservoir	0			Tertiary	15		
		Pumping Station							
Dak Song	PPC(IMC)	Weir	1	78	Support Irrigation	Main Canal	15		
		Reservoir	22	4152	Support Irrigation	Secondary Canal			
		Pumping Station							
	DPC	Weir	0			Secondary Canal			
		Reservoir	0			Tertiary	1		
		Pumping Station							
Dak R'lap	PPC(IMC)	Weir	10	1091	Support Irrigation	Main Canal	9		
		Reservoir	33	4369	Support Irrigation	Secondary Canal			
		Pumping Station							
	DPC	Weir	3	30	Support Irrigation	Secondary Canal	-		
		Reservoir	5	74		Tertiary	-		
		Pumping Station							
Tuy Duc	PPC(IMC)	Weir	5	645	Support Irrigation	Main Canal	24		
		Reservoir	24	3168	Support Irrigation	Secondary Canal			
		Pumping Station							
	DPC	Weir	11	111	Support Irrigation	Secondary Canal			
		Reservoir	0			Tertiary	3		
		Pumping Station							

Lam Dong Province

District	Irrigation System	Irrigation Facilities				Irrigation Canal			
		No. of Existing				Existing Length [km]			Existing Length [km]
		Type	Number	Concrete	Function	Type	Concrete	Temporary (Earth)	Concrete
Da Lat City	PPC(IMC)	Weir	0	0		Main Canal			
		Reservoir	3	168	Support Irrigation	Secondary Canal			
		Pumping Station	0	0					
	DPC	Weir	0	0		Secondary Canal			
		Reservoir	26	656	Support Irrigation	Tertiary			
		Pumping Station	1	40					
Bao Loc City	PPC(IMC)	Weir	0	0	Support Irrigation	Main Canal			
		Reservoir	0	0	Support Irrigation	Secondary Canal			
		Pumping Station	0	0					
	DPC	Weir	1	382	Support Irrigation	Secondary Canal			
		Reservoir	16	1,665	Support Irrigation	Tertiary			
		Pumping Station	0	0					
Dam Rong	PPC(IMC)	Weir	0	0		Main Canal			
		Reservoir	1	230		Secondary Canal			
		Pumping Station							
	DPC	Weir	70	1,853	Support Irrigation	Secondary Canal			
		Reservoir	8	1,053	Support Irrigation	Tertiary			
		Pumping Station	0	0					
Lac Duong	PPC(IMC)	Weir	0	0	Support Irrigation	Main Canal			
		Reservoir	2	266	Support Irrigation	Secondary Canal			
		Pumping Station	0	0					
	DPC	Weir	2	62	Support Irrigation	Secondary Canal			
		Reservoir	0	0	Support Irrigation	Tertiary			
		Pumping Station	0	0					
Lam Ha	PPC(IMC)	Weir	1	420	Support Irrigation	Main Canal	10	7	
		Reservoir	3	2,900	Support Irrigation	Secondary Canal	25	0	
		Pumping Station	0	0					
	DPC	Weir	7	480	Support Irrigation	Secondary Canal	47	4	
		Reservoir	34	3,200	Support Irrigation	Tertiary	52	16	
		Pumping Station							
Don Duong	PPC(IMC)	Weir	4	363	Support Irrigation	Main Canal	18	6	
		Reservoir	5	1,210	Support Irrigation	Secondary Canal	28	2	
		Pumping Station	0	0					
	DPC	Weir	16	447	Support Irrigation	Secondary Canal	26	0	
		Reservoir	10	194	Support Irrigation	Tertiary	1	0	
		Pumping Station	2	48	Support Irrigation				

District	Irrigation System	Irrigation Facilities				Irrigation Canal			
		No. of Existing				Existing Length [km]			Existing Length [km]
		Type	Number	Concrete	Function	Type	Concrete	Temporary (Earth)	
Duc Trong	PPC(IMC)	Weir	3	2,850	Support Irrigation	MainCanal	18	4	
		Reservoir	2	235		Secondary Canal	36	4	
		Pumping Station	0	0					
	DPC	Weir	3	158	Support Irrigation	Secondary Canal	15	0	
		Reservoir	30	1,841	Support Irrigation	Tertiary	14	0	
		Pumping Station	9	328	Support Irrigation				
Di Linh	PPC(IMC)	Weir	0	0	Support Irrigation	MainCanal	10	0	
		Reservoir	2	2,527	Support Irrigation	Secondary Canal	28	0	
		Pumping Station	0	0	Support Irrigation				
	DPC	Weir	18	906	Support Irrigation	Secondary Canal	18	9	
		Reservoir	30	3,112	Support Irrigation	Tertiary	4	1	
		Pumping Station	0	0					
Bao Lam	PPC(IMC)	Weir	0	0		MainCanal	27	0	
		Reservoir	3	3,191	Support Irrigation	Secondary Canal	6	1	
		Pumping Station	0	0					
	DPC	Weir	0	0		Secondary Canal	1	6	
		Reservoir	16	1,583	Support Irrigation	Tertiary	0	0	
		Pumping Station	0	0					
Da Huoai	PPC(IMC)	Weir	1	55	Support Irrigation	MainCanal	5	0	
		Reservoir	3	460	Support Irrigation	Secondary Canal	4	3	
		Pumping Station	1	175	Support Irrigation				
	DPC	Weir	1	26		Secondary Canal	4	0	
		Reservoir	3	179	Support Irrigation	Tertiary			
		Pumping Station	0	0					
Da The	PPC(IMC)	Weir	0	0	Support Irrigation	MainCanal	8	11	
		Reservoir	3	2,930	Support Irrigation	Secondary Canal	36	13	
		Pumping Station	0	0	Support Irrigation				
	DPC	Weir	3	34	Support Irrigation	Secondary Canal	20	39	
		Reservoir	4	379	Support Irrigation	Tertiary	2	0	
		Pumping Station	1	42					
Cat Tien	PPC(IMC)	Weir	1	110	Support Irrigation	MainCanal	21	2	
		Reservoir	3	1,496	Support Irrigation	Secondary Canal	31	5	
		Pumping Station	4	697	Support Irrigation				
	DPC	Weir	55	1,643	Support Irrigation	Secondary Canal	28	2	
		Reservoir	5	408	Support Irrigation	Tertiary	11	0	
		Pumping Station	0	0					

Note: “-”: Not available

IMC: Irrigation Management Company

PPC: Provincial People's Committee

DPC: District People's Committee CPC: Commune People's Committee

Source: Irrigation Sub-Department of 5 provinces

AP 3.5.2 Inventory and O&M Irrigation Systems in Central Highlands

Kon Tum Province

District	Irrigation System	IMC				IMB/WMB				WMB/WUGs /Cooperatives			
		No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Organized WUG	No. of Irrigation system	Service Area [ha]	No. of Staff
Kon Tum City	Provincial	-	-	-	2,632	-	-	-	-	-	-	-	-
	District	-	-	-	-	13	135	-	-	-	-	-	-
Dak Glei	Provincial	-	-	-	398	-	-	-	-	-	-	-	-
	District	-	-	-	-	67	583	-	-	-	-	-	-
Ngoc Hoi	Provincial	-	-	-	1,632	-	-	-	-	-	-	-	-
	District	-	-	-	-	22	174	-	-	-	-	-	-
Dak To	Provincial	-	-	-	1,249	-	-	-	-	-	-	-	-
	District	-	-	-	-	35	288	-	-	-	-	-	-
Kon Plong	Provincial	-	-	-	512	-	-	-	-	-	-	-	-
	District	-	-	-	-	33	208	-	-	-	-	-	-
Kon Ray	Provincial	-	-	-	683	-	-	-	-	-	-	-	-
	District	-	-	-	-	22	133	-	-	-	-	-	-
Dak Ha	Provincial	-	-	-	6,113	-	-	-	-	-	-	-	-
	District	-	-	-	-	34	562	-	-	-	-	-	-
Sa Thay	Provincial	-	-	-	1,166	-	-	-	-	-	-	-	-
	District	-	-	-	-	26	127	-	-	-	-	-	-
Tu Mo Rong	Provincial	-	-	-	218	-	-	-	-	-	-	-	-
	District	-	-	-	2,632	65	610	-	-	-	-	-	-
La H'Drai	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	398	0	-	-	-	-	-	-	-
Total	Provincial	175	13,834	68	14,604	-	-	-	-	-	-	-	-
	District	-	-	-	-	317	2,820	-	-	60	-	955	-

Gia Lai Province

District	Irrigation System	IMC				IMB/WMB				WMB/WUGs /Cooperatives			
		No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Organized WUG	No. of Irrigation system	Service Area [ha]	No. of Staff
Pleiku City	Provincial	6	3,472	3	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	0	-	0
An Khe	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	3	-	11
Ayun Pa	Provincial	2	1,835	15	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	2	-	12
Kbang	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	37	-	8	-	-	36	-	2
Dak Doa	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	1	-	-
Chu Pah	Provincial	2	570	10	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	10	-	14
Ia Grai	Provincial	2	2,800	6	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	24	-	8	-	-	41	-	-
Mang Yang	Provincial	4	735	7	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	2	-	13
Krong Cho	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	-	-	0
Duc Co	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	6	-	-
Chu Prong	Provincial	5	2,200	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	20	-	-
Chu Se	Provincial	5	2,625	25	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	1	-	-
Dak Po	Provincial	0	0	0	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	-	-	25
Ia Pa	Provincial	0	4,520	30	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	16	-	43
Krong Pa	Provincial	1	5,150	24	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	9	-	21	-	-	10	-	31
Phu Thien	Provincial	2	7,230	52	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	3	-	93
Chu Puh	Provincial	2	360	6	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	0	-	0
Total	Provincial	31	31,497	178	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	70	25,069	37	-	26	151	1,813	244

Dak Lak Province

District	Irrigation System	IMC				IMB/WMB				WMB/WUGs /Cooperatives			
		No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Organized WUG	No. of Irrigation system	Service Area [ha]	No. of Staff
Buon Ma Thuot City	Provincial	9	2,218	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	22	1,160	-	-	-	8	-	-
Ea H'leo	Provincial	37	3,181	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	2	155	-	-	-	6	-	-
Ea Soup	Provincial	3	144	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	-	-	-
Krong Nang	Provincial	19	1,705	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	47	2,779	-	-	-	32	-	-
Krong Buk	Provincial	19	1,547	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	15	1,190	-	-	-	7	-	-
Buon Don	Provincial	10	1,124	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	7	425	-	-	-	3	-	-
Cu M'Gar	Provincial	36	3,366	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	8	704	-	-	-	20	-	-
Ea Kar	Provincial	20	1,891	-	-	-	-	-	-	-	-	-	-

District	Irrigation System	IMC				IMB/WMB				WMB/WUGs /Cooperatives			
		No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Organized WUG	No. of Irrigation system	Service Area [ha]	No. of Staff
	District	-	-	-	-	22	932	-	-	-	25	-	-
M' Drak	Provincial	15	1,405	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	44	1,453	-	-	-	-	-	-
Krong Pak	Provincial	38	3,876	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	66	2,977	-	-	-	36	-	-
Krong Bong	Provincial	16	1,800	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	19	770	-	-	-	2	-	-
Krong Ana	Provincial	14	1,525	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	17	1,253	-	-	-	28	-	-
Lak	Provincial	39	3,047	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	-	-	-	-	-	3	-	-
Cu Kuin	Provincial	12	1,346	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	29	1,098	-	-	-	29	-	-
Buon Ho	Provincial	21	2,468	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	24	1,592	-	-	-	-	-	-
Total	Provincial	308	30,644	-	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	322	16,488	-	-	1	199	56	-

Dak Nong Province

District	Irrigation System	IMC				IMB/WMB				WMB/WUGs /Cooperatives			
		No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Organized WUG	No. of Irrigation system	Service Area [ha]	No. of Staff
Gia Nghia	Provincial	15	2,969	11	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	2	110	-	-	-	-	-	-
Dak G'long	Provincial	30	3,586	13	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	14	14	-	-	-	-	-	-
Cu Jut	Provincial	9	3,312	14	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	4	1,035	-	-	-	-	25	-
Dak Mil	Provincial	34	5,253	18	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	0	0	-	-	-	-	-	-
Krong No	Provincial	13	3,430	20	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	0	0	-	-	-	-	13	-
Dak Song	Provincial	23	4,230	13	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	0	0	-	-	-	-	-	-
Dak R'lap	Provincial	43	5,460	14	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	3	104	-	-	-	-	5	-
Tuy Duc	Provincial	29	3,812	14	-	-	-	-	-	-	-	-	-
	District	-	-	-	-	11	111	-	-	-	-	-	-
Total	Provincial	196	32,052	117	-	-	-	-	-	12	-	-	-
	District	-	-	-	-	34	1,374	-	-	1	1,718	43	-

Lam Dong Province

District	Irrigation System	IMC				IMB/WMB				WMB/WUGs /Cooperatives			
		No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Irrigation system	Service Area [ha]	No. of Staff	O&M Cost (mil VND)	No. of Organized WUG	No. of Irrigation system	Service Area [ha]	No. of Staff
Da Lat City	Provincial	33	1,034	-	0	-	-	-	-	-	-	-	-
	District	-	-	-	-	8	155	13	624	-	-	-	-
Bao Loc City	Provincial	6	1,455	-	0	-	-	-	-	-	-	-	-
	District	-	-	-	-	6	582	7	445	-	-	-	-
Dam Rong	Provincial	0	0	0	0	-	-	-	-	-	-	-	-
	District	-	-	-	-	80	3,188	11	2,385	-	-	-	-
Lac Duong	Provincial	0	0	0	0	-	-	-	-	-	-	-	-
	District	-	-	-	-	3	328	3	166	-	-	-	-
Lam Ha	Provincial	4	3,400	19	4,441	-	-	-	-	-	-	-	-
	District	-	-	-	-	41	3,708	6	1,622	-	-	-	-
Don Duong	Provincial	9	1,671	19	3,659	-	-	-	-	-	-	-	-
	District	-	-	-	-	31	903	16	786	-	-	-	-
Duc Trong	Provincial	3	2,920	15	2,416	-	-	-	-	-	-	-	-
	District	-	-	-	-	43	2,562	20	2,117	-	-	-	-
Di Linh	Provincial	1	1,870	10	2,528	-	-	-	-	-	-	-	-
	District	-	-	-	-	52	4,569	7	2,101	-	-	-	-
Bao Lam	Provincial	2	3,690	7	1,662	-	-	-	-	-	-	-	-
	District	-	-	-	-	20	866	28	697	-	-	-	-
Da Huoi	Provincial	2	215	6	544	-	-	-	-	-	-	-	-
	District	-	-	-	-	7	665	8	304	-	-	-	-
Da The	Provincial	4	2,812	18	4,393	-	-	-	-	-	-	-	-
	District	-	-	-	-	7	666	26	1,077	-	-	-	-
Cat Tien	Provincial	10	1,840	22	3,917	-	-	-	-	-	-	-	-
	District	-	-	-	-	24	824	19	1,439	-	-	-	-
Total	Provincial	74	20,907	116	23,560	-	-	-	-	-	-	-	-
	District	-	-	-	-	322	19,016	164	13,763	5	-	910	-

Note: "-": Not provided IMC: Irrigation Management Company IMB: Irrigation Management Board

WMB: Water Management Board WUG: Water User Group

Source: Irrigation Sub-Department of 5 provinces

AP 3.5.3 Inventory and O&M Condition of Road in Central Highlands

No.	Name of Road	Basic Facilities						Road Status		Operation and Maintenance (O&M) Activities					Status of O&M	
		Grade of Road <1>	Length (km)	Width (m)	Type of pavement <2>	Traffic Volume of Roads		Normal Condition (km) <3>	Bad Condition (km) <4>	O&M Organization		O&M Frequency			Problems in O&M	Assess at O&M
						Highest (PCU/day night)	Lowest (PCU/day night)			Name of Organization	Number of Worker for O&M (km/people)	O&M Budget (VND Mil./km)	Routine Activities (times/year) <5>	Periodic Activities (Yes/No) <6>		
I	39-Kon Tum															
A	National Highway		443.7					348.6	95.1							
1	NH. 24	II, III, V	99.2	3.5-16.0	Asphalt + BPM	2557	1,001	99.2	0.0	Kon Tum Transportation Construction and Management JSC	8	29.06	12	Yes	Limited fund for O&M Activities	Good
2	NH. 40	IV, VI	21.526	3.5-15.0	Asphalt + Gravel	3253	495	13.9	7.6	Kon Tum Transportation Construction and Management JSC	8	29.48	12	Yes		
3	NH. 14C	IV, VI	106.3	3.5-5.5	Asphalt + Gravel	1228	224	42.8	63.5	Kon Tum Transportation Construction and Management JSC	8	25.14	12	Yes		
4	Ho Chi Minh Road	II, III, IV	155	11	Asphalt	2,633	1,000	155.0	0.0	Regional Road Management Unit III	8	25.00	12	Yes		
5	NH. 40B	IV, V	61.67	3.5-15.0	Concrete + Asphalt + BPM	1092	88	37.7	24.0	Dak Binh Transportation Management and Construction Limited Company	8	27.97	12	Yes		
B	Provincial Road		445.7					211.7	234.0							
1	PR. 671	II, V	62.0	3.5-9.0	Concrete + Asphalt + BPM	3,757	1000	39.7	22.3	Loi Phat Private Company	8	29.0	4	Yes	Limited fund for O&M Activities	Good
2	PR. 672	V	50.2	3.5-7.0	BPM + Gravel	957	13	0.9	49.3	Dak Binh Transportation Management and Construction Limited Company	8	27.9	4	Yes		
3	PR. 673	V	39.9	3.5-6.5	Concrete + Asphalt + BPM	486	50	4.3	35.6	Kon Tum Transportation Construction and Management JSC	8	30.1	4	Yes		
4	PR. 674	IV, VI	34.0	4	BPM + Gravel	800	57	9.1	25.0	Kon Tum Transportation Construction and Management JSC	8	20.6	4	Yes		
5	PR. 675	IV, V	53.1	6.0-8.0	Asphalt + BPM	3,511	584	21.0	32.1	Kon Tum Transportation Construction and Management JSC	8	47.1	4	Yes		
6	PR. 676	V	58.0	7.5-42.0	Concrete + Asphalt	1,291	100	30.3	27.7	Kon Tum Transportation Construction and Management JSC	8	28.1	4	Yes		
7	PR. 677	IV	28.0	4.0-6.5	Gravel	422	20	10.0	18.0	Kon Tum Transportation Construction and Management JSC	8	7.1	4	Yes		
8	PR. 678	V	28.0	4.0-6.0	Concrete + Asphalt + Gravel	331	16	4.0	24.0	Dak Binh Transportation Management and Construction Limited Company	8	39.3	4	Yes		
9	Road for Resettlement of Plei Krong Hydropower Station	V	39.9	4.0-6.0	BPM	208	20	39.9	0.0	Kon Tum Transportation Construction and Management JSC	8	32.0	4	Yes		
10	Road Ngoc Hoang-Mang But-Tu Mo Rong-Ngoc Linh	V	13.6	5.5	Concrete + BPM + Gravel	200	50	13.6	0.0	Kon Tum Transportation Construction and Management JSC	8	30.0	4	Yes		
11	Road Dak Coi-Dak Pxi	V	39.1	4.0-7.0	BPM	250	63	39.1	0.0	Kon Tum Transportation Construction and Management JSC	8	38.4	4	Yes		
C	District Road		642.9					278.7	364.3							
1	Kon Tum City	IV, V, VI	54.8	3.5-5.0	Asphalt + BPM	1,000	250	22.8	32.0	DPC	15	4	4	Yes	Not Enough fund for O&M	Normal
2	Dak Glei District	V	62.5	3.5	Concrete + BPM	150	20	12.7	49.8	DPC	15	4	4	Yes		
3	Ngoc Hoi District	V	95.7	3.5	Concrete + BPM + Gravel + Earth	150	20	38.5	57.2	DPC	15	4	4	Yes		
4	Dak To District	V	42.5	3.5	BPM + Gravel + Earth	150	20	38.5	4.0	DPC	15	4	4	Yes	Not Enough fund for O&M	Normal
5	Kon Plong District	V	61.8	3.5	Concrete + BPM + Gravel + Earth	125	20	41.4	20.4	DPC	15	4	4	Yes		
6	Kon Ray District	V	24.5	3.5	BPM	125	20	24.5	0.0	DPC	15	4	4	Yes		
7	Dak Ha District	V	45.9	3.5	Asphalt + Gravel + Earth	150	20	19.9	26.0	DPC	15	4	4	Yes		
8	Sa Thay District	V, VI	120.0	3.0-3.5	Asphalt + Concrete + BPM + Gravel + Earth	150	20	29.3	90.7	DPC	15	4	4	Yes		
9	Tu Mo Rong District	V	38.0	3.5	Concrete + BPM + Gravel + Earth	125	20	7.3	30.8	DPC	15	4	4	Yes		
10	Ia H'Drai District	IV, V	97.3	3.5-5.5	Asphalt + Concrete + BPM + Gravel + Earth	100	20	43.8	53.5	DPC	15	4	4	Yes		
D	Urban Road <7>		204.5					99.6	104.9							
1	Kon Tum City	II-V	79.0	4.0-12.0	Asphalt + BPM + Gravel	1,000	100	35.4	43.6	DPC	10	5	4	Yes	Not Enough fund for O&M	Normal
2	Dak Glei District	V	2.7	3.5	Asphalt + BPM + Gravel	100	20	0.0	2.7	DPC	25	2	4	Yes		
3	Ngoc Hoi District	II-IV	12.9	6.0-30.0	Asphalt + BPM	2,633	20	11.7	1.2	DPC	25	2	4	Yes		
4	Dak To District	II-VI	45.7	3.5-10.5	Concrete + Asphalt + BPM + Gravel	2,633	20	18.6	27.1	DPC	25	2	4	Yes		
5	Kon Plong District	II-VI	18.4	3.5-10.5	Asphalt + BPM + Gravel	300	20	11.9	6.5	DPC	25	2	4	Yes		
6	Kon Ray District	III-VI	15.5	3.5-8.0	Concrete + BPM + Gravel	2,557	20	9.5	6.0	DPC	25	2	4	Yes		

No.	Name of Road	Basic Facilities						Road Status		Operation and Maintenance (O&M) Activities						Status of O&M	
		Grade of Road <1>	Length (km)	Width (m)	Type of pavement <2>	Traffic Volume of Roads		Normal Condition (km) <3>	Bad Condition (km) <4>	O&M Organization			O&M Frequency		Problems in O&M	Assess at O&M	
						Highest (PCU/day night)	Lowest (PCU/day night)			Name of Organization	Number of Worker for O&M (km/people)	O&M Budget (VND Mil./km)	Routine Activities (times/year) <5>	Periodic Activities (Yes/No) <6>			
7	Dak Ha District	III-VI	14.2	3.5-8.0	Asphalt + BPM + Gravel	2,633	20	8.6	5.6	DPC	25	2	4	Yes			
8	Sa Thay District	III-VI	16.2	3.0-8.0	Concrete + Asphalt + BPM + Gravel	300	20	4.0	12.2	DPC	25	2	4	Yes			
9	Tu Mo Rong District	No Urban Road			-												
10	Ia H'Drai District	No Urban Road															
E	Total		1,736.8					938.6	798.3								
II	40-Gia Lai																
A	National Highway		593.6					436.3	157.4								
1	NH. 25	III, IV	111.8	5,5÷14.0	Asphalt, BPM	5,129	776	111.8	0.0	GIA LAI ROAD JSC	8	50.0	12	Yes	Limited funds for O&M activities	Good	
2	Truong Son Dong	IV	109.8	5.5	Asphalt	672	121	70.8	39.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	50.0	12	Yes			
3	NH. 14C	IV MN	90.5	3,5÷7.0	Asphalt, gravel	1,171	1,012	22.5	68.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	50.0	12	Yes			
4	NH. 19	III MN	168.0	7.5	Asphalt	3,272	600	117.6	50.4	Regional Road Management Unit III - Branch III.4	8	50.0	12	Yes	Limited funds for O&M activities	Good	
5	Ho Chi Minh Road	III MN	113.5	6.0 - 7.5	Asphalt	6,061	1,500	113.5	0.0	Regional Road Management Unit III - Branch III.4	8	50.0	12	Yes			
B	Provincial Road		430.2					305.1	125.1								
1	PR.661	IV	22.5	6,0-14,0	Asphalt	1,867	747	22.5	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes	Limited funds for O&M activities	Good	
2	PR.662	IV	13.0	5.5	Asphalt, BPM	2,481	992	13.0	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
3	PR.663	IV, V	47.4	5,5-9,5	Asphalt, BPM, Gravel	198	79	33.4	14.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
4	PR.664	III, IV	58.4	5,5-13,0	Asphalt	2,142	857	58.4	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
5	PR.665	IV, V	58.3	3,5-5,5	Asphalt, Concrete, BPM	566	226	27.2	31.1	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
6	PR.666	IV, V, VI	61.2	3,5-5,5	Asphalt, Concrete, BPM, Gravel	-	-	19.5	41.8	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
7	PR.667	III, IV	31.0	5,5-11,0	Asphalt, Concrete	555	222	31.0	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
8	PR.668	IV, V	15.5	3,5-5,5	Asphalt, Concrete, BPM	-	-	15.5	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
9	PR.669	III, IV	29.4	5,5-10,0	Asphalt, Concrete	491	196	29.4	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes	Limited funds for O&M activities	Good	
10	PR.670B	V	23.4	5.5	BPM	1,402	561	23.4	0.0	Gia Lai Road&Bridge Repairation, Construction and Management JSC	8	25.0	12	Yes			
11	PR.662B	V	24.6	3,5-6,0	Asphalt, Concrete, BPM	-	-	1.3	23.3	Gia Lai Construction & Maintenance Transportation One Member Co., Ltd	8	25.0	12	Yes			
12	PR.670	III, IV	45.5	5,5-10,0	BPM	210	84	30.5	15.0	GIA LAI ROAD JSC	8	25.0	12	Yes			
C	District Road		1461.0					867.8	593.2								
1	Pleiku town		0.0		Asphalt, BPM	0	0	0	0	DPC	15	6.4	4	Yes	Limited funds for O&M activities	Normal	
2	Dak Doa	IV-VI	163.7	3.5 - 6.5	Concrete, BPM, Gravel	225	75	108.2	55.5	DPC	15	6.4	4	Yes			
3	Chu pah	V, VI	70.9	3.0 - 5.0	Concrete, BPM, Gravel	175	40	55.0	15.9	DPC	15	6.4	4	Yes			
4	Ia Grai	VI	216.0	3.0	BPM	225	75	164.0	52.0	DPC	15	6.4	4	Yes			
5	Mang Yang	III-IV	71.4	7.0	Concrete, BPM, Gravel	175	40	9.6	61.8	DPC	15	6.4	4	Yes			
6	Dak Po	V, VI	36.7	4.0 - 6.0	Concrete, BPM, Gravel	175	40	16.2	20.5	DPC	15	6.4	4	Yes			
7	An Khe town	V-VI	58.2	3.5	Concrete, BPM, Gravel	175	40	26.3	31.9	DPC	15	6.4	4	Yes			
8	Kong Chro	V, VI	104.5	4.0 - 5.5	Concrete, BPM, Gravel	175	40	86.0	18.5	DPC	15	6.4	4	Yes			
9	Ia Pa	VI-IV	34.7	3.5 - 5.5	Concrete, BPM, Gravel	175	40	34.7	0	DPC	15	6.4	4	Yes	Limited funds for O&M activities	Normal	
10	Phu Thien	V	23.3	3.5	BPM, Gravel, Earth	225	75	6.8	16.5	DPC	15	6.4	4	Yes			
11	Ayun Pa	IV, V	4.0	5.5	BPM, Concrete	175	40	4.0	0	DPC	15	6.4	4	Yes			
12	Krong Pa	IV, V	65.0	5.5 - 6.5	Concrete, BPM, Gravel	225	75	32.0	33.0	DPC	15	6.4	4	Yes			
13	Chu Puh	IV-VI	30.0	3.0 - 6.0	BPM, Gravel	175	40	20.7	9.3	DPC	15	6.4	4	Yes			
14	Chu Se	V	117.0	3.5	BPM	225	75	63.2	53.8	DPC	15	6.4	4	Yes			
15	Chu Prong	IV-VI	240.2	3.5-6.0	Concrete, BPM, Gravel	225	75	90.7	149.5	DPC	15	6.4	4	Yes			
16	Duc Co	IV, V	50.4	6.5	Concrete, BPM, Gravel	175	40	13.1	37.3	DPC	15	6.4	4	Yes			
17	Kbang	V, VI	175.0	3.5 - 5.5	BTN, BPM, Gravel	175	40	137.3	37.7	DPC	15	6.4	4	Yes			

No.	Name of Road	Basic Facilities					Road Status		Operation and Maintenance (O&M) Activities						Status of O&M	
		Grade of Road <1>	Length (km)	Width (m)	Type of pavement <2>	Traffic Volume of Roads		Normal Condition (km) <3>	Bad Condition (km) <4>	O&M Organization		O&M Frequency		Problems in O&M	Assess at O&M	
						Highest (PCU/day night)	Lowest (PCU/day night)			Name of Organization	Number of Worker for O&M (km/people)	O&M Budget (VND Mil./km)	Routine Activities (times/year) <5>			Periodic Activities (Yes/No) <6>
D	Urban Road <7>		561.0					388.6	172.4							
1	Pleiku town	II-VI	229.1	3.5 - 25	Asphalt, BPM	6,061	250	222.8	6.3	DPC	10	10.0	12	Yes		
2	Dak Doa	II-VI	13.6	3.5 - 14	Asphalt, Concrete, BPM	250	50	4.2	9.4	DPC	25	5.0	12	Yes		
3	Chu pah	II-VI	13.7	3.5 - 14	Asphalt, Concrete, BPM	250	50	11.2	2.5	DPC	25	5.0	12	Yes		
4	Ia Grai	II, VI	23.1	3.0 - 20	Asphalt, BPM, Gravel	250	50	12.4	10.7	DPC	25	5.0	12	Yes		
5	Mang Yang	II-IV	15.2	7.0 - 21	BPM, Gravel	450	50	7.6	7.6	DPC	25	5.0	12	Yes		
6	Dak Po	II-V	6.9	5.0 - 15	Concrete, BPM, Gravel	250	50	6.5	0.4	DPC	25	5.0	12	Yes		
7	An Khe town	II-IV	44.5	7.0 - 12	Asphalt, Concrete, Gravel	500	50	24.9	19.6	DPC	25	5.0	12	Yes	Limited funds for O&M activities	
8	Kong Chro	IV-VI	23.4	3.5 - 8.0	Concrete, BPM, Gravel	250	50	12.5	10.9	DPC	25	5.0	12	Yes	Normal	
9	Ia Pa	III-V	7.6	5.0 - 7.5	Concrete, BPM, Gravel	250	50	3.5	4.1	DPC	25	5.0	12	Yes		
10	Phu Thien	III - VI	6.0	3.5 - 14	Asphalt, Concrete, Gravel	250	50	3.0	3.0	DPC	25	5.0	12	Yes		
11	Ayun Pa	III - VI	24.2	3.0 - 12	Asphalt, Concrete, BPM, Gravel	250	50	10.3	13.9	DPC	25	5.0	12	Yes		
12	Krong Pa	IV - VI	25.3	3.5 - 6.0	Asphalt, Concrete, BPM, Gravel	250	50	15.2	10.2	DPC	25	5.0	12	Yes	Limited funds for O&M activities	
13	Chu Puh	III-VI	30.1	3.0 - 8.0	Asphalt, BPM, Gravel	150	30	5.0	25.1	DPC	25	5.0	12	Yes	Normal	
14	Chu Se	III-VI	41.4	3.5 - 15	Asphalt, Concrete, Gravel	250	50	29.7	11.7	DPC	25	5.0	12	Yes		
15	Chu Prong	III-VI	8.1	3.0 - 11	Asphalt, Concrete, Gravel, BPM	200	35	3.1	5.0	DPC	25	5.0	12	Yes		
16	Duc Co	III, VI	24.8	3.0 - 10.5	Asphalt, BPM	250	50	6.6	18.2	DPC	25	5.0	12	Yes	Limited funds for O&M activities	
17	Kbang	III-VI	24.2	3.5 - 10.5	Asphalt, BPM, Gravel	250	50	10.3	13.9	DPC	25	5.0	12	Yes	Normal	
E	Total		3045.8					1997.7	1048.1							
III.	41-Dak Lak															
A	National Highway		741.1					506.4	234.7							
1	Ho Chi Minh (NH.14)	III	126	11	Asphalt	2,557	1,001	126	0	Regional Road Management Unit III - Branch III.5	8	25.0	4	Yes		
2	NH.26	III, IV	119	6	Asphalt	1,250	250	119	0	Regional Road Management Unit III - Branch III.5	8	25.0	4	Yes		
3	NH.19C	IV	26.9	5.5	BPM	1,500	350	0	26.9	Regional Road Management Unit III - Branch III.5	8	25.0	4	Yes		
4	NH.27	III, IV	88.5	5.5	Asphalt+Concrete+BPM	11,638	6,645	88.5	0	Dak Lak Transport Construction & Management JSC	25	43.0	4	Yes	Limited funds for O&M Activities	
5	NH.29	III, IV	284.155	5.5	Asphalt+BPM+ Gravel	3,822	1,331	76.372	207.783	Road Management & Construction JSC No.26 and Dak Lak Transport Construction & Management JSC	61	50.0	4	Yes		
6	NH.14C (old road)	IV, V	15	3.5	BPM+Gravel	1,228	224	15	0	Dak Lak Transport Construction & Management JSC	25	29.5	4	Yes		
7	NH.14C (new road)	IV	81.5	5.5	Gravel+Concrete+BPM	1,350	270	81.5	0	Dak Lak Transport Construction & Management JSC	25	29.5	4	Yes		
B	Provincial Road		353.0					240.7	112.3							
1	PR. 697	IV	67	5.5	Asphalt+BPM	7,195	4,092	41.4	25.6	Dak Lak Transport Construction & Management JSC	25	6.3	4	Yes		
2	PR. 698	IV	27	5.5	Asphalt+Gravel	5,124	4,786	26.0	1.0	Hung Phu Construction & Consultancy Transportation One Member Co., Ltd	14	1.4	4	Yes		
3	PR. 699	IV	24	5.5	Asphalt	3,041	760	4.0	20	Minh Vu Construction Co., Ltd	19	3.5	4	Yes		
4	PR. 697E	IV	15	5.5	Asphalt+BPM	1,652	413	15.0	0	Dak Lak Transport Construction & Management JSC	25	0.9	4	Yes	Limited funds for O&M Activities (seriously)	
5	PR. 687	IV	14	5.5	Asphalt+Concrete	1,876	469	14.0	0	Hung Phu Construction & Consultancy Transportation One Member Co., Ltd	14	6.1	4	Yes		
6	PR. 688	III, IV	35	5.5-24	Asphalt+BPM	11,792	7,526	35.0	0	Ky Nguyen Construction & Trading Co., Ltd	10	3.4	4	Yes		
7	PR. 689	IV	27	5.5	Asphalt	3,210	803	7.0	20	Road Management & Construction JSC No.26	36	3.6	4	Yes		
8	PR. 690	IV	20	5.5	Asphalt	2,999	750	20.0	0	Hung Phu Construction & Consultancy Transportation One Member Co., Ltd	14	0.6	4	Yes	Limited funds for O&M Activities (seriously)	
9	PR. 692	IV	53	5.5	Asphalt+BPM+ Concrete	2,283	571	53.0	0	Hung Phu Construction & Consultancy Transportation One Member Co., Ltd	14	4.4	4	Yes	Normal	
10	PR. 693	IV, V	42	5.5	BPM+Gravel	922	231	7.3	34.7	Sanh Chien Co., Ltd	4	1.6	4	Yes		

No.	Name of Road	Basic Facilities						Road Status		Operation and Maintenance (O&M) Activities					Status of O&M	
		Grade of Road <1>	Length (km)	Width (m)	Type of pavement <2>	Traffic Volume of Roads		Normal Condition (km) <3>	Bad Condition (km) <4>	O&M Organization		O&M Frequency		Problems in O&M	Assess at O&M	
						Highest (PCU/day night)	Lowest (PCU/day night)			Name of Organization	Number of Worker for O&M (km/people)	O&M Budget (VND Mil./km)	Routine Activities (times/year) <5>			Periodic Activities (Yes/No) <6>
11	PR. 695	IV	29	5.5	Asphalt+BPM+ Gravel	2,928	732	18.0	11	Road Management & Construction JSC No.26	36	1.7	4	Yes	Limited funds for O&M Activities (seriously)	Normal
C	District Road		1444.5					1123.3	321.2							
1	Buon Don District	IV	30	5.5	Asphalt+BPM	125	50	30	0	DPC	25	2.0	1	Yes		Normal
2	Cu Kuin District	IV	46	5.5	Concrete+BPM+ Gravel	250	125	38	8	DPC	25	2.0	1	Yes		Normal
3	Krong Buk District	IV	33.6	5.5	BPM	125	50	33.6	0	DPC	25	2.0	1	Yes		Normal
4	Ear Ka District	IV	189.6	5.5	Asphalt+Concrete+BPM+Gravel	250	125	141	48.6	DPC	25	2.0	1	Yes		Normal
5	Ea H'Leo District	IV, V, VI	210.85	4	BPM+Gravel+ Earth	250	125	96	114.9	DPC	25	2.0	1	Yes		Normal
6	Lak District	V	75.6	4	BPM+Concrete+ Gravel	125	50	55.6	20	DPC	25	2.0	1	Yes		Normal
7	Ea Sup District	V	127.8	4	BPM+Gravel	125	50	95.8	32	DPC	25	2.0	1	Yes		Normal
8	M'Drak District	IV, VI	91.8	4	BPM+Concrete+ Earth	125	50	68.8	23	DPC	25	2.0	1	Yes		Normal
9	Krong Bong District	III, IV, V	75.326	5	BPM+Concrete+Gravel+Earth	250	125	55	20.3	DPC	25	2.0	1	Yes	Limited funds for O&M Activities (seriously)	Normal
10	Cu M'gar District	III, IV, VI	172.85	5	Asphalt+BPM+ Concrete+Gravel +Earth	250	125	148.9	24	DPC	25	2.0	1	Yes		Normal
11	Krong Nang District	IV	149.5	5.5	BPM	250	125	149.5	0	DPC	25	2.0	1	Yes		Normal
12	Krong Ana District	III, V	72	5	Asphalt+BPM+ Concrete+Gravel	250	125	60.6	11.4	DPC	25	2.0	1	Yes		Normal
13	Krong Pak District	IV, V, VI	99.9	4.5	Asphalt+BPM+ Gravel+Earth	250	125	80.9	19	DPC	25	2.0	1	Yes		Normal
14	Buon Ho District	V	64	3.5	BPM	250	125	64	0	DPC	25	2.0	1	Yes		Normal
15	Buon Ma Thuot City	IV	5.69	5.5	Asphalt+BPM	1,000	250	5.7	0	DPC	25	2.0	1	Yes		Normal
D	Urban Road <7>		460.1					316.9	143.2							
1	Buon Don District	V	6.5	4	Asphalt+Concrete+BPM+Gravel	125	50	6.5	0.00	DPC	15	5.0	4	Yes		Normal
2	Cu Kuin District	IV	5.2	5.5	BPM	125	50	5.2	0.00	DPC	15	5.0	4	Yes		Normal
3	Krong Buk District	IV, VI	21.33	4	Concrete+BPM+ Gravel	125	50	9.33	12.00	DPC	15	5.0	4	Yes	Limited funds for O&M Activities (seriously)	Normal
4	Ear Ka District	IV	45.4	5.5	Asphalt+BPM+ Gravel	125	50	21.8	23.60	DPC	15	5.0	4	Yes		Normal
5	Ea H'Leo District	IV	24.09	5.5	BPM	125	50	2.14	21.95	DPC	15	5.0	4	Yes		Normal
6	Lak District	IV, V	18.7	4.5	Asphalt+Concrete+ BPM+Gravel	125	50	17.5	1.20	DPC	15	5.0	4	Yes		Normal
7	Ea Sup District	VI	23	3.5	BPM+Gravel	125	50	13.5	9.50	DPC	15	5.0	4	Yes		Normal
8	M'Drak District	IV, VI	20.99	4	Concrete+BPM+ Gravel+Earth	125	50	8.99	12.00	DPC	15	5.0	4	Yes		Normal
9	Krong Bong District	IV	21	5.5	BPM	125	50	21	0.00	DPC	15	5.0	4	Yes		Normal
10	Cu M'gar District	III, V, VI	5.7	5	Asphalt+Concrete+ BPM+Gravel+ Earth	125	50	3.25	2.45	DPC	15	5.0	4	Yes		Normal
11	Krong Nang District	V, VI	25	4.5	BPM+Concrete+ Gravel+Earth	125	50	14	11.00	DPC	15	5.0	4	Yes	Limited funds for O&M Activities (seriously)	Normal
12	Krong Ana District	IV	12.03	5.5	Asphalt+Concrete+BPM+Gravel+ Earth	125	50	9.45	2.58	DPC	15	5.0	4	Yes		Normal
13	Krong Pak District	V, VI	62	3.5	Asphalt+Concrete+BPM+Gravel+ Earth	125	50	34	28.00	DPC	15	5.0	4	Yes		Normal
14	Buon Ho District	V	55.2	3.5	Concrete+BPM+ Earth	125	50	48.06	7.14	DPC	15	5.0	4	Yes		Normal
15	Buon Ma Thuot City	III, IV, V, VI	114	7.5	Asphalt+Concrete+BPM+Earth	1,000	250	102.18	11.82	DPC	15	5.0	4	Yes		Normal
E	Total		2,998.7					2,187.3	811.4							
IV. 42-Dak Nong																
A	National Highway		413.0					146.0	267.0							
1	NH. 14C (old)	V	99	3.5-7.5	Asphalt + BPM + Gravel	410	95	10	89	Dak Nong Road JSC	8	25.0	6	Yes		Good
2	NH. 14C (new)	IV	70	3.0-7.5	Asphalt + Concrete + BPM + Gravel	2,223	410	25	45	Dak Nong Road JSC	8	25.0	6	Yes	Limited Fund fund for O&M	Good
3	NH. 28	IV	174	5.5-14	Asphalt + Concrete + BPM + Gravel	2,221	647	41	133	Dak Nong Road JSC	8	25.0	6	Yes		Good
4	NH. 14	III	70	11	Asphalt	4,502	1,126	70	0	Dak Nong Duc Long BOT JSC	8	58.0	6	Yes		Good
B	Provincial Road		226.6					118.8	107.8							
1	PR. 1	V, IV	36	3.5-5.5	BPM	2,135	534	0	36	Dak Nong Road JSC	15	15.0	4	Yes		Good
2	PR. 2	V	24	3.5	BPM	1,592	398	0	24	Buon Ma Thuot Construction Co., Ltd	15	15.0	4	Yes	Limited Fund fund for O&M	Good
3	PR. 3	V, IV	36.4	3.5-5.5	Asphalt + BPM + Gravel	1,507	377	36.4	0	Dak Nong Road JSC	15	15.0	4	Yes		Good
4	PR. 4B	IV	27	5.5	BPM + Gravel	2,498	625	0	27	Dak Nong Road JSC	15	15.0	4	Yes		Good
5	PR. 5	V	42.8	3.5	BPM + Gravel	1,578	395	26	17	Dak Nong Road JSC	15	15.0	4	Yes		Good
6	PR. 6	V	60.4	3.5	BPM + Gravel	1,752	438	56	4	Buon Ma Thuot Construction Co., Ltd	15	15.0	4	Yes		Good
C	District Road		798.7					376.8	421.9							
1	Gia Nghia Town									Gia Nghia DPC				Yes		Good
2	Cu Jut District	V, VI	48.8	4	Asphalt + BPM + Earth	355	35	48.8	0	DPC	25	5.0	2	Yes	Limited Fund fund for O&M	Good
3	Dak Mil District	V, VI	133.5	4	Concrete + BPM + Earth	278	30	65.0	68.5	DPC	25	5.0	2	Yes		Good
4	Dak Song District	VI	27.0	3	BPM + Earth	224	40	10.0	17.0	DPC	25	5.0	2	Yes		Good
5	Dak R'láp District	V, VI	142.8	4	Concrete + BPM + Earth	191	25	120.0	22.8	DPC	25	5.0	2	Yes		Good

No.	Name of Road	Basic Facilities						Road Status		Operation and Maintenance (O&M) Activities						Status of O&M	
		Grade of Road <1>	Length (km)	Width (m)	Type of pavement <2>	Traffic Volume of Roads		Normal Condition (km <3>	Bad Condition (km <4>	O&M Organization			O&M Frequency		Problems in O&M	Assess at O&M	
						Highest (PCU/day night)	Lowest (PCU/day night)			Name of Organization	Number of Worker for O&M (km/people)	O&M Budget (VND Mil./km)	Routine Activities (times/year <5>	Periodic Activities (Yes/No) <6>			
6	Krong No District	V, VI	126.6	4	Concrete + BPM + Earth	432	60	80.0	46.6	DPC	25	5.0	2	Yes	Limited Fund fund for O&M	Good	
7	Dak G'long District	V, VI	191.0	4	BPM + Earth	206	25	18.0	173.0	DPC	25	5.0	2	Yes			
8	Tuy Duc District	V, VI	129.0	4	Concrete + BPM + Earth	187	20	35.0	94.0	DPC	25	5.0	2	Yes			
D	Urban Road <7>		198.4					81.3	117.0								
1	Gia Nghia Town	III-VI	63.4	3.5 - 15	Asphalt + BPM	1,000	250	52.3	11.1	Gia Nghia DPC	15	10.0	6	Yes	Limited Fund fund for O&M	Good	
2	Cu Jut District	IV-VI	28.3	3.5 - 7.5	Concrete + BPM + Earth	355	35	3.3	25.0	DPC	15	10.0	6	Yes			
3	Dak Mil District	IV-VI	29.1	3.5 - 7.5	BPM + Earth	500	75	5.0	24.1	DPC	15	10.0	6	Yes			
4	Dak Song District	IV-VI	13.6	3.5 - 7.5	Asphalt + BPM	224	40	3.6	10.0	DPC	15	10.0	6	Yes			
5	Dak R'láp District	IV-VI	29.0	3.5 - 7.5	Concrete + Asphalt + BPM + Gravel	191	25	9.3	19.7	DPC	15	10.0	6	Yes			
6	Krong No District	IV-VI	19.5	3.5 - 7.5	Concrete + Asphalt + BPM + Gravel	432	60	2.5	17.0	DPC	15	10.0	6	Yes			
7	Dak G'long District	IV-VI	1.6	3.5 - 7.5	Asphalt + BPM	206	25	1.3	0.4	DPC	15	10.0	6	Yes			
8	Tuy Duc District	IV-VI	14.0	3.5 - 7.5	Asphalt + BPM	187	20	4.1	9.9	DPC	15	10.0	6	Yes			
E	Total		1,636.7					722.9	913.7								
V.	43-Lam Dong																
A	Expressway		19.2					19.2	0								
1	Lien Khuong - Pren	A2	19.2	25.5-52.0	Asphalt			19.2	0	Hung Phat BOT Company	5	100.0	12	1	Enough	Very good	
B	National Highway		403.3					355.9	47.4								
1	NH.27	IV	91	5.5	Asphalt+BPM	17,388	9,842	75.0	16.0	Lamdong Road Operation and Construction JSC	8	43.0	12	1	Limited Fund for O&M Activities	Good	
2	NH.55	III	24	6.5	Asphalt+BPM	12,481	3,120	10.6	13.4	Lamdong Road Operation and Construction JSC	8	43.0	12	1			
3	NH.28B	IV	18	5.5	Asphalt+BPM	5,534	1,384	0.0	18.0	Lamdong Road Operation and Construction JSC	8	43.0	12	1			
4	NH.28	IV, V	96.6	5.5	Asphalt+BPM	11,068	2,767	96.6	0.0	Regional Road Management Unit IV - Branch IV.1	8	43.0	12	1			
5	NH.27C	III	54.27	6.0	Asphalt	11,988	2,997	54.3	0.0	Lamdong Road Operation and Construction JSC	8	43.0	12	1			
6	NH.20	III, IV	119.4	7.0-11.0	Asphalt	23,024	8,164	119.4	0.0	Regional Road Management Unit IV - Branch IV.1	8	43.0	12	1			
7	Truong Son Dong	IV	62.3	5.5	Asphalt	672	121	62.3	0	Lam Dong Road Construction and Management Company No.I	8	43.0	12	1			
C	Provincial Road		339.3					294.6	44.7								
1	PR.721	IV	62	5.5	Asphalt	6,680	2,227	62.0	0.0	Lam Dong Road Construction and Management Company No.II	15	34.7	6	5	Limited Fund for O&M Activities	Good	
2	PR.722	IV	15.5	5.5	Asphalt	5,537	1,846	15.5	0.0	Lam Dong Road Construction and Management Company No.I	15	34.7	6	5			
3	PR. L.Son - Loc Thang	IV	12.6	5.5	Asphalt	1,500	500	12.6	0.0	Lam Dong Road Construction and Management Company No.II	15	34.7	6	5			
4	PR to DN4 Hydropower	IV	28	5.5	Asphalt	1,000	400	28.0	0.0	Lam Dong Road Construction and Management Company No.II	15	34.7	6	5			
5	PR.725	IV	176.2	5.5	Asphalt+BPM	13,474	5,204	131.5	44.7	Lam Dong Road Construction & Management Company No. I & No. II	15	34.7	6	5			
6	PR. B'sa - Đap'Loa	IV	10.48	5.5	Asphalt	1,000	400	10.5	0.0	Lam Dong Road Construction and Management Company No.II	15	34.7	6	5			
7	PR. Mimosa	IV	10.8	5.5	BPM	1,000	286	10.8	0.0	Lam Dong Road Construction and Management Company No.I	15	34.7	6	5			
8	PR. Lien Hung - Dam Ron	IV	23.7	5.5	Asphalt	1,000	286	23.7	0.0	Lam Dong Road Construction and Management Company No.I	15	34.7	6	5			
D	District Road		919.3					605.2	314.0								
1	Dalat Town		0.0												Limited Fund for O&M Activities	Good	
2	Baoloc Town	IV, V	48.4	5.5 - 7.0	Asphalt + Earth	250	125	44.4	4.0	DPC	25	5.0	2	5			
3	Lac Duong district	IV, V	42.3	5.5 - 7.0	Asphalt, Gravel, Earth	100	20	16.3	26.0	DPC	25	5.0	2	5			
4	Don Duong District	IV	85.3	5.5	Asphalt, Concrete, Gravel	250	125	58.0	27.3	DPC	25	5.0	2	5			
5	Duc Trong District	IV - VI	116.6	3.5 - 5.5	Asphalt + Earth	250	125	116.6	0.0	DPC	25	5.0	2	5			
6	Lam Ha District	IV, VI	70.1	3.5 - 5.5	Asphalt, Concrete, Gravel	250	125	52.9	17.2	DPC	25	5.0	2	5			
7	Dam Rong District	IV-VI	75.7	3.5 - 5.5	Asphalt, Concrete, Gravel	100	20	48.7	27.0	DPC	25	5.0	2	5			
8	Di Linh District	IV, V	172.2	3.5 - 5.5	Asphalt, BPM, Gravel, Earth	250	125	65.2	107.0	DPC	25	5.0	2	5			
9	Bao Lam District	IV, V	108.8	3.5 - 5.5	Asphalt, Gravel, Earth	250	125	82.3	26.5	DPC	25	5.0	2	5			
10	Da Huoi District	IV-VI	60.4	3.5 - 5.5	Asphalt, BPM, Gravel, Earth	100	20	49.2	11.2	DPC	25	5.0	2	5			

No.	Name of Road	Basic Facilities						Road Status		Operation and Maintenance (O&M) Activities					Status of O&M	
		Grade of Road <1>	Length (km)	Width (m)	Type of pavement <2>	Traffic Volume of Roads		Normal Condition (km) <3>	Bad Condition (km) <4>	O&M Organization		O&M Frequency		Problems in O&M	Assess at O&M	
						Highest (PCU/day night)	Lowest (PCU/day night)			Name of Organization	Number of Worker for O&M (km/people)	O&M Budget (VND Mil./km)	Routine Activities (times/year) <5>			Periodic Activities (Yes/No) <6>
11	Da The District	IV, V	59.9	3.5 - 5.5	Asphalt, BPM, Gravel, Earth	100	20	40.2	19.7	DPC	25	5.0	2	5		
12	Cat Tien District	IV, V	79.6	3.5 - 5.5	Asphalt, Concrete, Earth	100	20	31.5	48.1	DPC	25	5.0	2	5		
E	Urban Road <7>		406.8					279.9	127.0							
1	Dalat Town	II-V	176.3	3.5 - 25.0	Asphalt, BPM, Gravel	750	20	118.8	57.5	DPC	10	10.0	4	5	Limited Fund for O&M Activities	Good
2	Baoloc Town	III-V	73.4	3.5 - 15.0	Asphalt, BPM, Gravel, Earth	250	125	45.7	27.7	DPC	15	10.0	4	5		
3	Lac Duong district	IV-VI	12.0	3.5 - 5.5	Asphalt, Concrete, BPM, Gravel, Earth	100	20	7.3	4.7	DPC	15	5.0	4	5		
4	Don Duong District	IV-VI	28.7	3.5 - 5.5	Asphalt, Concrete, BPM, Gravel	250	125	15.5	13.2	DPC	15	5.0	4	5		
5	Duc Trong District	IV-VI	45.2	3.5 - 5.5	Asphalt, Concrete	250	125	45.2	0.0	DPC	15	5.0	4	5		
6	Lam Ha District	IV-VI	5.5	3.5 - 5.5	Asphalt, Concrete, Gravel, Earth	250	125	5.5	0.0	DPC	15	5.0	4	5		
7	Dam Rong District	IV-VI	7.2	3.0 - 7.0	Concrete, Asphalt	100	20	7.2	0.0	DPC	15	5.0	4	5	Limited Fund for O&M Activities	Good
8	Di Linh District	IV, V	13.3	3.5 - 7.5	Asphalt, Concret, Gravel, Earth	250	125	3.4	9.9	DPC	15	5.0	4	5		
9	Bao Lam District	IV, V	3.8	3.5 - 7.5	Asphalt	250	125	2.3	1.5	DPC	15	5.0	4	5		
10	Da Huoi District	No urban road														
11	Da The District	V	12.6	3.5	Asphalt, Concret, Gravel	100	20	12.6	0.0	DPC	15	5.0	4	5		
12	Cat Tien District	IV-VI	28.8	3.5 - 7.5	Asphalt, Concret, Gravel	100	20	16.5	12.4	DPC	15	5.0	4	5		
F	Total		2087.8					1554.8	533.1							

Note: <1> Grade IV flat section, Grade IV mountainous section, Grade V, Grade VI, rural road class A, other

<2> Asphalt concrete pavement, cement concrete pavement, BPM pavement, gravel, earth road

<3> "Normal" condition means cars can pass through without road improvement

<4> "Bad" condition means cars face difficulty to pass through the road smoothly and improvement is needed.

<5> Cleaning of ditches, cleaning of bridges and culverts, filling on shoulders and slopes, grass cutting

<6> Filling of scored areas at bridge or culvert, repair of drainage structures, reshaping of surface (earth/gravel surface), patching of potholes on surface (asphalt concrete), resurfacing(BPM)

<7> Filling the number and total length of urban Roads

<8> BPM: Bituminous Penetration Macadam

<9>- Not available

Source: DOTs in Central Highlands

AP 3.5.4 Inventory and O&M Condition of Water Supply Systems in Central Highlands

No.	Name of Water Supply system	Location (district<City>/commune)	Water Source	Capacity (m ³ /day)		Number of Beneficiaries		Operation & Maintenance (O&M) Activities					
				Design	Actual (2015/16)	Planned	Actual (2015/16)	O&M Organization		Amount of O&M Cost (VND Mil./Year)	Adequacy of O&M budget Reasonable /Short	Routine Activities (times/year) <1>	Periodic Activities (Yes/No) <2>
								Name of Organization	Number of Staff for O&M				
I 39-Kon Tum													
1	Kon Tum City WS System	Kon Tum City	Dak La River	12,000	10,200	80,000	45,100	Kon Tum WS Limited Company	24	3,754.1	Reasonable	4	Yes
2	Dak To commune WS System	Dak To town/Dak To District	Surface Water (50%); Ground Water (50%)	4,500	700	45,000	7,000	Utility WS JSC	4	582.5	Short	4	Yes
3	Dak Ha commune WS System	Dak Ha Town/Dak Ha District	Surface Water	4,200	3,360	42,000	33,600	Dak Ha Public works Management and Operation Central	10	1,398.1	Reasonable	4	Yes
4	Dak Long commune WS System	Mang Den Hamlet, Dak Long commune/Kon Plong District	Surface Water	3,000	1,600	30,000	16,000	Kon Plong Urban Environmental and Service Center	6	665.8	Short	4	Yes
5	Bo Y Water Plant	Bo Y Commune/Ngoc Hoi District	Surface Water	2,000	800	9,686	4,800	Kon Tum Investment and Development Infrastructure for Economical Area Company	5	948.7	Reasonable	3	Yes
6	Ngoc Hoi Water Plant	Plei Kan Town/Ngoc Hoi District	Surface Water	800	550	8,000	5,500	Ngoc Hoi Environment and Services Center	3	457.7	Short	4	Yes
7	Kon Ray Town WS System	Kon Ray Town/Kon Ray District	Surface Water	4,000	138	40,000	1,385	Kon Ray Urban Environmental and Service Center	3	115.2	Short	4	Yes
8	Dak La commune WS System	Dak La Commune/Dak Ha District	Underground Water	590	320	5,904	4,108	Kon Tum Clean Water and Environmental Sanitation Center	3	639.6	Short	4	Yes
9	Dien Binh commune WS System	Dien Binh Commune/Dak To District	Underground Water	1,600	306	16,000	6,835	Kon Tum Clean Water and Environmental Sanitation Center	5	380.8	Short	4	Yes
Sub - Total				32,690	17,974	276,590	124,328		63	8,943			
II 40-Gia Lai													
1	Bien Ho Water Plant	Pleiku City	Bien Ho Lake	20,000	18,000	150,000	88,000	Gia Lai Water Supply One Member Co., Ltd	24	14,043	Reasonable	2	Yes
2	Ayunpa Water Plant	Ayunpa Town	Surface Water	3,000	4,500	20,000	26,000	Gia Lai Water Supply One Member Co., Ltd	10	3,511	Reasonable	2	Yes
3	Le Thanh International Boder Gate Economical Zone WS	Ia Dom + Ia Nan Commune, Duc Co	Surface Water	1,200	150	8,000	1,000	Gia Lai Economical Development Infrastructure Company	3	310	Short	4	Yes
4	An Khe Town WS System	An Khe Town	Surface Water + Ground Water	2,400	1,593	24,000	15,930	An Khe DPC	10	1,864	Short	2	Yes
5	Chu Se Clean Water Management and Distribution Station	Chu Se District	Ground Water	2,500	2,200	16,667	5,820	Chu Se DPC	10	1,897	Short	2	Yes
6	Dak Doa Town Water Supply Station	Dak Doa District	Ground Water	1,800	1,057	11,500	7,360	Chu Se DPC	6	911	Short	2	Yes
7	Duc Co Town Clean Water System	Duc Co	Ground Water	2,156	96	12,198	638	Duc Co DPC	2	147	Short	2	Yes
8	Phu Hoa Town Clean Water System	Phu Hoa Town/Chu Pah	n.a	600	600	2,860	2,860	Chu Pah DPC	4	920	Short	2	Yes
9	Dak Po Water Plant	Dak Po Town/Dak Po	Surface Water	1,300	350	4,845	900	Dak Co DPC	3	537	Short	2	Yes
10	Kon Dong Town Water Supply Station	De Dol hamlet, Kon Dong Town/YaMang	Ground Water	723	318	8,930	5,953	Ya Mang DPC	2	487	Short	2	Yes
11	Nhon Hoa Town Water Supply Station	Nhon Hoa Town/Chu Puh	Ground Water	1,248	600	12,410	3,103	Chu Puh DPC	4	920	Short	2	Yes
12	Chu Prong Town Water Supply Station	Chu Prong Town/Chu Prong	n.a	750	0	0	0	Chu Prong DPC	0	0	Short	0	No
13	Phu Tuc Town Water Plant	Krong Pa	Surface Water	4,000	4,000	11,664	11,664	Krong Pa DPC	10	2,300	Short	2	Yes
14	Ia Grai Town Water Plant	Ia Grai Town/Ia Grai	Ground Water	200	166	1,333	1,106	Ia Grai DPC	2	254	Short	2	Yes
15	Dak Lop Water Plant	Dak Lop Commune/Kbang	Ground Water	1,000	1,000	10,000	9,240	Kbang DPC	6	862	Short	2	Yes
16	Kbang Town Water Plant	Kbang Town/Kbang	An Khe, Ka Nak Lake	2,000	1,000	20,000	10,000	Kbang DPC	6	862	Short	2	Yes

No.	Name of Water Supply system	Location (district<City>/commune)	Water Source	Capacity (m ³ /day)		Number of Beneficiaries		Operation & Maintenance (O&M) Activities					
				Design	Actual (2015/16)	Planned	Actual (2015/16)	O&M Organization		Amount of O&M Cost (VND Mil./Year)	Adequacy of O&M budget Reasonable /Short	Routine Activities (times/year) <1>	Periodic Activities (Yes/No) <2>
								Name of Organization	Number of Staff for O&M				
17	Krong Chro Water Plant	Krong Chro	Ba River	1,500	400	10,222	1,760	Kon Chro DPC	3	613	Short	2	Yes
18	Ia Pa Town Water Plant	Ia Pa Town	Ba River	300	300	2,000	2,000	Ia Pa DPC	2	460	Short	2	Yes
Sub - Total				46,477	36,330	326,629	193,334		107	30,899			
III 41-Dak Lak													
1	Buon Ma Thuot WS System	Buon Ma Thuot City	Ground Water (90%) Surface Water (10%)	56,000	40,700	373,333	302,380	Dakwaco	91	11,885.9	Reasonable	12	Yes
2	Buon Ho WS System	Buon Ho Town/Buon Ho District	Ground Water (50%) Surface Water (50%)	8,000	5,200	66,667	47,360	Dakwaco	30	2,953.9	Short	12	Yes
3	Phuoc An WS System	Phuoc An Town/Krong Pak District	Ground Water	2,000	2,100	16,667	18,330	Dakwaco	8	336.0	Short	12	Yes
4	Cu M'Gar WS System	Quang Phu, Ea Pok/ Cu M'Gar District;	Ground Water	2,500	1,100	20,833	10,975	Dakwaco	9	831.6	Short	12	Yes
5	Ea Sup Town WS System	Ea Sup District	Surface Water	2,000	2,600	16,667	14,225	Dakwaco	8	710.3	Short	12	Yes
6	Ea Kar Town WS System	Ea Kar District	Ground Water	250	230	2,083	1,815	Dakwaco	3	131.2	Short	12	Yes
7	Ea Drang Town WS System	Ea Drang/Ea H'leo District	Ground Water	1,572	2,046	19,370	16,140	Dak Lak Clean Water and Environmental Sanitation Center	7	2,030.7	Short	1	Yes
8	Krong Kmar Town WS System	Krong Kmar/Krong Bong	Surface Water	600	538	5,000	5,425	Dak Lak Clean Water and Environmental Sanitation Center	3	669.3	Short	1	Yes
9	Buon Trap WS System	Buon Trap/Krong Ana District	Ground Water	830	380	7,500	3,490	Dak Lak Clean Water and Environmental Sanitation Center	2	717.6	Short	1	Yes
10	Buon Wao Hamlet, Krong Nang Town WS System	Wao Hamlet/Krong Nang Town/ Krong Nang District	Wells	76	38	380	255	Dak Lak Clean Water and Environmental Sanitation Center	1	76.8	Short	1	Yes
11	Buon Ur Hamlet, Krong Nang Town WS System	Ur Hamlet/Krong Nang Town/ Krong Nang District	Wells	73	36	365	240	Dak Lak Clean Water and Environmental Sanitation Center	1	72.3	Short	1	Yes
Sub - Total				73,901	54,968	528,865	420,635		163	20,415			
IV 41-Dak Nong													
1	Gia Nghia WS Station	Gia Nghia Town	Lake No.2 - Dak Rthi Hydropower	12,000	4,800	58,500	30,250	Dak Nong Water Supply and Urban Development JSC	15	5,781.6	Reasonable	4	Yes
2	Kien Duc WS Station	Kien Duc Town - Dak R'Lap District	Dak Blao Lake	1,000	1,000	7,383	5,500	Dak Nong Water Supply and Urban Development JSC	4	1,806.8	Reasonable	4	Yes
3	EaTling WS Station	EaTling Town - Cu Jut District	Serepok River	2,000	1,400	16,056	15,500	Dak Nong Water Supply and Urban Development JSC	8	2,529.5	Reasonable	6	Yes
4	Dak Mam WS Station	Dak Mam Town - Krong No District	Irrigated Dam - Hamlet K62	1,000	750	7,574	6,500	Dak Nong Water Supply and Urban Development JSC	3	1,355.1	Reasonable	6	Yes
5	Quang Khe WS Station	Quang Khe Town - Dak G'long District	Irrigated Lake - Hamlet No. 2	700	350	6,030	2,200	Dak Nong Water Supply and Urban Development JSC	3	1,124.2	Reasonable	6	Yes
6	Dak Mil WS Station	Dak Mil Town - Dak Mil District	West Lake - Dak Mil Town/Dak Mil District	2,000	1,200	10,000	8,000	DAK NONG WASECO (Private Company)	12	2,168.1	Reasonable	n.a	Yes
Sub - Total				18,700	9,500	105,543	67,950		45	14,765			
V 42-Lam Dong													
1	Dalat City and Lac Duong district WS System					224,000	215,600	Lam Dong Water Supply and Sewerage Company LTD					
1	DanKia Water Plant/Dalat City, Lacduong district	Lat commune, Lac Duong district	Dan Kia Lake	25,000	21,500	-	-	Ditto	30	9,888	Reasonable	12	Yes
1	Water Plant Thanho Lake	Dalat City	Chienthang Lake	5,000	3,500	-	-	Ditto	11	2,704	Reasonable	12	Yes
2	Lamha district WS system							Lam Dong Water Supply and Sewerage Company LTD					

No.	Name of Water Supply system	Location (district<City>/commune)	Water Source	Capacity (m ³ /day)		Number of Beneficiaries		Operation & Maintenance (O&M) Activities					
				Design	Actual (2015/16)	Planned	Actual (2015/16)	O&M Organization		Amount of O&M Cost (VND Mil./Year)	Adequacy of O&M budget Reasonable /Short	Routine Activities (times/year) <1>	Periodic Activities (Yes/No) <2>
								Name of Organization	Number of Staff for O&M				
2	Dinhvan Water Plant	Dinhvan commune, Lamha district	Da Dang River	3,000	2,050	20,000	11,997	Ditto	3	2,654	Short	12	Yes
2	Tanha Water Plant	TanHa commune, Lamha district	Da Dang River	2,000	200	10,900	1,751	Ditto	5	2,654	Short	12	Yes
2	Namban Water Plant	NamBan commune, Lamha district	Baytang waterfall	2,000	100	10,000	2,597	Ditto	3	2,656	Short	12	Yes
3	Donduong district WS System							Lam Dong Water Supply and Sewerage Company LTD					
3	Thanhmy Water Plant	Thanhmy, Donduong district	Underground Water (02 wells)	900	460	12,000	5,792	Ditto	3	2,316	Short	12	Yes
3	D'Ran Water Plant	D'Ran commune, Donduong district	Da Bao stream	1,500	550	14,900	6,732	Ditto	3	2,317	Short	12	Yes
4	Damrong district WS system	Banglang commune, Damrong district	Dar Sal stream	500	300	6,000	1,895	Lam Dong Water Supply and Sewerage Company LTD	4	1,608	Short	12	Yes
5	Baolam district WS system	Loethang commune, Baolam district	Underground Water (06 wells)	3,720	1,790	20,000	16,574	Lam Dong Water Supply and Sewerage Company LTD	4	4,521	Short	12	Yes
6	DaHuoai WS System							Lam Dong Water Supply and Sewerage Company LTD					
6	DM'ri Water Plant/Dahuoi district	DaM'ri commune, Dahuoi district	Da M're stream	500	200	4,600	2,921	Ditto	3	2,091	Short	12	Yes
6	Water Plant Madaguoi/Dahuoi district	Madaguoi commune, DaHuoai district	Dalong Lake	1,500	350	10,000	3,924	Ditto	3	2,091	Short	12	Yes
7	Dateh WS System	Da The commune, Da Teh district	Da The Lake	3,000	900	17,000	8,820	Lam Dong Water Supply and Sewerage Company LTD	4	2,927	Short	12	Yes
8	Baoloc City WS System	Baoloc City	Surface Water	11,300	7,200	75,333	83,768	Bao Loc Water Supply and Sewerage Company LTD	5	4,139	Reasonable	12	Yes
9	Liengghia WS System	Liengghia commune, Ductrong district	Underground Water	3,000	2,350	20,000	16,056	Duc Trong Construction, Water Supply and Sewerage Company LTD	3	1,783	Reasonable	12	Yes
10	Dilinh WS System	Dilinh district	Underground Water	5,400	4,200	36,000	16,100	Di Linh Construction and Water Supply Company LTD	4	3,187	Reasonable	12	Yes
11	Cattien WS System	Cattien district	Underground Water, Surface Water	3,700	1,000	14,800	2,500	Cat Tien public works Management and Operation Central	3	1,150	Reasonable	12	Yes
Sub - Total				72,020	46,650	495,533	397,027		91	48,686			

Note: <1>: Clearing of sediment, Change of filter, Clearing of reservoir tank, Clearing of borehole
 <2>: Repair of pumps and pump stations, Repair of reservoir tank, Repair of main pipe
 <3>: na - Not available

Source: Urban Water supply companies and DOCs in Central Highlands

AP 3.7.1 List of Priority Projects in Mid-Term Public Investment Plan 2016-2020 in Central Highlands

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
39 - Kon Tum Province											
I Road & Bridge											
9901	1	Road and Bridge from provincial road 671 to National road No.14	Kon Tum City		Concrete spillway, L= 84m on Đăk Bla; reinforced concrete bridge, L=234.11m, width: 8m; service area 305ha;	2016-2020	249,997	0	100,000	National Budget	DD
9902	2	Traffic road from Dak Glei town to DakNhoong commune	Dak Glei	Dak Glei town, Dak Nhoong	L=15km, class V-Mountain area, BPM pavement	2013	68,505	47,000	6,121	National Budget	Under construction
9903	3	Nguyen Sinh Sac road (extension) (Stage 2)	Ngoc Hoi	Ngoc Hoi town	L=2.018km, urban road, asphalt pavement and other infrastructure (lighting, drainage, ...)	2013-2017	51,732	35,000	11,300	National Budget	Under construction
9910	4	Extention section of PR.674 to border patrol road Mo Ray commune, Sa Thay district	Sa Thay, Ia H'Drai		L=27.21km, class IV-mountain area, width: 3.5/6.5 (m), pavement structure: cement concrete, concrete side ditch and cross culverts, and traffic signs	2017	249,997	0	5,000	National Budget	FS
9905	5	Road from Km9-PR.676 to Km10-road to Ngoc Tem commune	Kon Plong		L=10.32km, class IV-mountain area, width: 3.5/6.5(m), BPM pavement	2012-2017	77,315	47,359	24,500	National Budget	Under construction
9901	6	Southern ring road of Kon Tum city (section from HCM road to Kon Klor bridge)	Kon Tum City		L=6.57km, urban asphalt pavement and related infrastructure (lighting, drainage, traffic signs, ...)	2014-2017	236,767	34,000	72,500	Government Budget	Under construction
9906	7	Road from Đăk Tô Re commune to Kon Long Buk, Kon Xom Luh and Kon Do Xing village, Kon Ray district	Kon Ray		L=7.270km, class IV-mountain area, asphalt pavement	2014-2017	99,952	37,000	51	National Budget	Under construction
9907	8	Rural road from Dak La commuen to Ngoc Roe/Dak Ha district	Dak ha		L=11.42km, class V-mountain area, BPM pavement	2014-2017	72,796	19,000	33,000	Government Budget	Under construction
9904	9	Road from Dak Hringcommune/Dak Ha to Dien Binh commune/Dak To	Dak Ha, Dak To		L=10.237km, class V-mountain area, BPM pavement	2014-2017	87,070	23,000	42,418	National Budget	Under construction
9901	10	Eastern ring road of Kon Tum city (section from Tran Phu road to Kon Klor bridge)	Kon Tum City		L=4.164, urban asphalt pavement and related infrastructure (lighting, drainage, traffic signs, ...)	2015-2017	150,860	30,600	105,000	National Budget	Under construction
9903	11	Western ring road of Plei Kan town	Ngoc Hoi		L=2.706, urban asphalt pavement and related infrastructure (lighting, drainage, traffic signs, ...)	2014-2017	89,946	36,817	31,500	Government Budget	Under construction
9906	12	Road from Nh.24 - Dak Koi, section Km0-Km28	Kon Ray		L=28km, class V-mountain area, BPM pavement	2015-2017	144,358	33,676	70,000	Government Budget	Under construction
9910	13	New construction 03 urban road (02, 03, 08) of administrator area, Ia H'Drai district	Ia H'Drai	Ia H'Drai town	03 urban roads, total length 2.396km. width: 18/32m (road 02), 10.5/19.5m (road 03, 08), asphalt pavement, side walk, drainage system, traffic signs and intersections	2016-2019	98,047	0	88,200	National Budget	DD
9906	14	Dak Rve urban roads	Kon Ray	Dak Rve	L=9.135km urban asphalt road, sidewalk and drainage system	2015-2017	65,765	7,000	7,000	Provincial Budget	Under construction
9905	15	Road to Toong Dam - Toong Zo Ri reservoir	Kon Plong		L=5.23km, class IV-mountain area, BPM pavement	2015-2017	49,396	10,540	16,628	National + Provincial Budget	Under construction
9908	16	Road from Rò Koi commune Sa Thay district to Sa Loong commune Ngoc Hoi district (stage 1)	Sa Thay		L=20km, class V-mountain area, BPM pavement	2017-2020	110,744	0	86,493	National Budget	FS
II Irrigation											
39	1	Repairing, Upgrading to ensure safety to reservoir	Entire province		Fund for reparation and upgrading reservoirs on overal province to ensure irrigated capacity for 1865ha agricultural land	2017-2022	203,100	0	8,000	ODA (WB)	Under construction
3901	2	Reparation and upgrading Dak Ro Wa reservoir	Kon Tum City		Service area: 54ha	2013-2017	9,292	0	9,292	National Budget	Completion
3909	3	Reparation and upgrading Dak Hnia Wa reservoir	Tu Mo Rong		- Service area: 86ha paddy, domestic water to 600 beneficiaries; - Surfacing main dam (L= 190.65m) by BPM (18cm), new construction operated bridge, L= 8.6m, B=5m;- Surfacing minor dam (L=191.55m) by BPM and repairing related structures (inlet culvert, spillway);- Dredging canals;	2013-2017	9,823	0	9,000	National Budget	DD
3901	4	Slope protection and retaining wall of Đăk Bla river, section Plei Đôn and Kon Rò Bàng village, Kon Tum city	Kon Tum City		Length of Plei Đôn section 1.670m, length of Kon Rò Bàng section 3.620m and other infrastructure: drainage system; stairs; lighting; green belt.	2010-2017	389,142	109,850	88,614	National Budget	Under construction
III Water Supply											
39	1	Scale extending program of rural drinking water and environmental hygiene	province		Upgrading domestic water system in rural area, construct new public WC in chools and healcare center	2017-2020	207,102	0	187,000	ODA (WB)	Under construction
3910	2	Ia H'Drai town domestic water supply	Ia H'Drai	Ia H'Drai town	Design capacity: 2.500m ³ /day. Construct new spillway, pile line from water source to treated station and distributed pile line	2016-2019	99,984		89,980	National Budget	DD
3908	3	New construction Sa Thay domestic water supply	Sa Thay	Sa Thay town	Design capacity: 1.500m ³ /day. Construct new spillway, pile line from water source to treated station and distributed pile line	2017-2019	116,000		90,000	N/A	N/A
IV Others											

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
39	1	Central Highlands Poverty Reduction Project - Kon Tum Province	6 districts		30 communes in 06 districts, consist of: Tu Mơ Rông, Ngọc Hồi, Đăk Glei, Sa Thầy, Kon Rẫy và Kon Plong	2014-2019	63,137	38,476	47,830	ODA (WB)	Under implementation
	V	Industry									
3901	1	Thanh Trung 2 industrial cluster	Kon Tum City	Ngo May ward	- Construction 5 internal roads, total length 3.046km, car parking 17.166m ² ; - Construction electricity, water system, drainage system and lighting system; - Management office;	2017-2020	82,699		1,500	National + Provincial Budget	FS
3901	2	Construction internal road, water supply and drainage system of Hoa Binh industrial park (stage 2)	Kon Tum City		- Asphalt main road, L= 2.304m, width: 17/29m, side-walk and 124m minor road; - Drainage system: 3.796m reinforced concrete pile culvert; - Water supply: HDPE pile line, size 90-160mm, total length 4.780m; - Fire water supply system.	2016-2020	128,800	0	2,000	National Budget	Pre-FS
40 - Gia Lai Province											
	I	Road and Bridge									
4001	1	Pleiku Inner road	Pleiku		L = 6.373 km; pavement, side ditches, including sections: Ly Tu Trong, Van Hanh, Cach Mang Thang 8, Nguyen Thai Binh, Ba Huyen Thanh Quan	2016-2020	207,000	0	136,300	National Budget	FS
4002	2	An Khe city inner road	An Khe		6 inner road sections with total length of 6.003 km, Urban Road; asphalt pavement; sidewalk, drainage works and miscellaneous works	2016-2020	80,000	0	72,000	National Budget	DD
4003	3	Ayun Pa city inner road	Ayun Pa		6 inner road sections with total length of 7.25 km, Urban Road; asphalt pavement; sidewalk, drainage works and miscellaneous works	2016-2020	79,000	0	79,000	National Budget	DD
4005	4	Road from La Bang commune- Dak Doa to An Phu commune - Pleiku city	Dak Doa	La Bang	L = 5.985 km; Bn=5.5m; Bm=3.5m, BPM pavement, drainage ditches	2015-2016	10,473	4,250	5,100	National Budget	Under construction
4006	5	Main road of Ya Ly district town	Chu Pah		L=1.66 km; Bn=21.8m; Bm=14.3 m; BPM surface, drainage ditches	2015-2016	14,964	6,000	8,200	National Budget	Under construction
4006	6	Inter-commune road Ia Mo Nong - Ia Phi - Ia Ly	Chu Pah	Ia Phi	L=21.6km; Class: V - Mountain Area; Width: 3,5/6,5 (m); Drainage works and miscellaneous works;	2016-2020	80,000	0	72,000	National Budget	DD
4007	7	Road inside Ia Kha district town	Ia Grai	Ia Kha	L=6.5 km; Bm=3.5 m; asphalt and cement concrete surface, drainage ditches	2015-2017	18,145	8,644	6,000	National Budget	Under construction
4007	8	Road to Border guard station No. 719	Ia Grai		L=18.8km; Class: VI - Mountain Area; Width: 3,5/6,5 (m); Drainage works and miscellaneous works;	2016-2020	80,000	0	72,000	National Budget	DD
4008	9	Road to Dak Troi commune central	Mang Yang	Dak Troi	L=8 km; Bn=6.5m; Bm=3.5; Cement concrete Pavement; Drainage ditches	2015-2016	13,524	5,000	6,900	National Budget	Under construction
4009	10	Road to Dak Tpong (section from cross road Ia Ma to central of Dak Tpong commune)	Kong Chro	Dak Tpong	L=7 km; Bn= 6m, Bm=3.5 m cement concrete drainage ditches	2014-2015	14,929	13,600	683	National Budget	Under construction
4009	11	Road from National road Truong Son Dong to Chu Krei	Kong Chro	Chu Krei	L= 5.235 km; Width=3,5 m; Cement Concrete Pavement; Drainage ditches	2015-2016	14,999	5,600	8,000	National Budget	Under construction
4010	12	Phan Dinh Phung road (from Hai Ba Trung road to Tang Bat Ho)	Duc Co		Improving and upgrading whole route with L=0.813 km; Bn=10.9; Bm= 7m, BPM pavement; Sidewalk + concrete ditch	2015-2016	8,597	4,000	3,500	National Budget	Under construction
4010	13	Krel-Ia Kla Inter commune road in Duc Co district	Duc Co	Krel-Ia Kla	L=10 km; Class: IV - Mountain Area; width: 5,5/7,5 (m); Drainage works and miscellaneous works;	2018-2022	80,000	0	42,000	National Budget	FS
4011	14	Ia Bang - Ia Ve inter commune road in Chu Prong district	Chu Prong	Ia Bang, Ia Ve	Road grade A; L=22.8 km; Drainage works and miscellaneous works	2018-2022	80,000	0	42,000	National Budget	DD
4015	15	Bridge over Ea Krat stream on the inter commune road of Ia Dre - Krong Nang	Krong Pa	Ia Dre	Concrete bridge with 2 spans; Bc=5m, the path to the bridge= 867 m	2015-2016	11,986	5,000	5,800	National Budget	Under construction
4015	16	Inter commune road in Krong Pa district	Krong Pa		2 roads; L= 19.12km; Class: IV - Mountain Area (width: 5,5/7,5m) and Class: V - Mountain Area (width: 3,5/6,5m);	2016-2020	124,302	0	83,962	National Budget	DD
4016	17	Provencal road 662B (Ia Ke - Chu Athai communes - Phu Thien district to Ia Pa district)	Phu Thien	Ia Ke, Chu A Thai	L=23.8km; Class: IV -mountain Area; Width: 5,5/7,5 (m); Drainage works and miscellaneous works	2018-2022	110,000	0	0	Provincial Budget	FS
4016	18	D19 road in Phu Thien district town (section from D26 to end road)	Phu Thien		L=1.101 km; Bn=14m; Bm=8m, BPM surface, bridge over the canal, L= 24m	2015-2016	11,473	8,400	2,100	National Budget	Under construction
4016	19	Connector road from NH.25 to PR.666 (section Chu A Thai CPC office to PR.666)	Phu Thien	Chu A Thai	L=16.58 km; Class: IV - Mountain Area; width: 5,5/7,5 (m); Drainage works and miscellaneous works	2016-2020	80,000	0	72,000	National Budget	FS
4017	20	Road to residential area from Eastern and Western of Nhon Hoa district town.	Chu Puh	Nhon Hoa	L=4.129 km; Bn=7m; Bm=5m, BPM pavement, drainage ditches	2015-2016	18,470	10,000	6,800	National Budget	Under construction
4017	21	Inter commune road in Chu Puh	Chu Puh		5 roads, total length 24.2km; Drainage works and miscellaneous works	2018-2022	80,000	0	42,000	National Budget	FS
40	22	Provincial road 666	Mang Yang-Ia Pa		L=59.05 km; Class: IV - Mountain Area; Width: 5,5/7,5 (m); Drainage works and miscellaneous works	2016-2020	452,000	4,200	402,600	National + Provincial Budget	Under construction
40	23	Inter-district road from Thanh An commune (An Khe) to Kon Bla and Dak Hlo (K Bang)	An Khe- Kbang	Thanh An (An Khe), Kon Bla, Dak Hlo (K Bang)	L=14.23km; Class: IV - Mountain Area; Width: 5,5/7,5 (m); Drainage works and miscellaneous works	2016-2020	80,000	0	72,000	National Budget	DD
4001	24	Inner-Pleiku city development	Plei Ku		Upgrading Hai Ba Trung street (L=1.31.km), Tran Phu street (L=1.105km)	2018-2022	100,000	0	100,000	National + Provincial Budget	FS
	II	Irrigation									
4003	1	Reservoir Ia Rto	Ayun Pa	Ia Rto	- Service area 450ha (120 ha paddy, 250 ha sugar cane and 80 ha other crops); - Upgrading dam, domestic water	2017-2020	200,000	0	180,000	National Budget	Pre-FS

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
					system, operated road, main canal and distributed canal system;						
4012	2	Plei Keo irrigation	Chu Se	Yanun	Service area 500 ha	2016-2017	42,528	0	38,725	National + Provincial Budget	FS
40	3	Dam Rehabilitation and Safety Improvement Project	whole province		Fund for reparation and upgrading reservoirs on overall province to ensure irrigated capacity for 4270 ha agricultural land	2016-2020	127,631	0	100,000	ODA (WB)	Under implementation
	III	Water Supply									
4010	1	Duc Co water supply system	Duc Co	Chu Ty town	3 pumping systems, including drill well, 3 pipe line systems, towers, design capacity 2000m ³ /day	2014-2016	49,878	31,500	11,800	National Budget	Under construction
4010	2	Water supply plan in Krong Cho district town	Krong Chro	Krong Chro town	Capacity 2,000 m ³ /day	2015-2017	40,000	16,201	19,799	National + Provincial Budget	Under construction
4016	3	Water supply system in Phu Thien district town	Phu Thien	Phu Thien town	3,000 m ³ /day, treatment station, pipe line system 10km, secondary pipe line 25km, water taken from Eyun Ha dam to Phu Thien district town	2015-2017	44,000	15,500	24,000	National Budget	Under construction
4017	4	Widen water supply system in Nhon Hoa district town	Chu Puh	Nhon Hoa	1,270m ³ /day; Service area: Nhon Hoa, Chu Don, Ia Phang commune; Households: 2,600; Wells, Pumping station, Pile line (I, II, III): 52km	2015-2016	20,200	7,610	8,000	National Budget	Completion
40	5	Water Supply system in Ia Pa district (convey water from Ayun Ha to Ia Pa district town)	Phu Thien- Ya Pa		Capacity 4,000 m ³ /day	2016-2017	90,000	0	67,000	National + Provincial Budget	DD
40	6	Results-based Scaling up Rural Sanitation and Water Supply Program. 21 provinces (ODA)	Gia Lai province		Upgrading domestic water system in rural area, construct new public WC in schools and healthcare center	2016-2020	229,126		100,000	ODA (WB)	Under implementation
	IV	Climate change and Flood prevention									
4001	1	Revetment for land slide prevention of Hoi Phu stream	Pleiku		Length of stream= 2.5 km; Length of retaining wall: 5km; asphalt road on the top of retaining wall 12m, side-walk and drainage system	2014-2018	277,057	73,000	176,351	National + Provincial Budget	Under Construction
4003	2	Revetment for land slide prevention of Ayun river - Section of Ayun Pa town	Ayun Pa		Total length of slope protection 8,380km, width 11.5 m. Cement road, width 7.5 m, side-walk 2m	2013-2017	412,009	100,000	187,021	National Budget	Under Construction
	V	Industry									
4001	1	Infrastructure of Tra Da industrial area (stage 2)	Pleiku		- Additional area: 88.53 ha; - Construction internal road, lighting, water supply, drainage system;	2015-2016	61,749	15,000	37,000	National + Provincial Budget	FS
4002	2	Infrastructure of An Khe industrial area	An Khe		Land leveling, road, electricity system, water supply, drainage system and water treatment	2017-2021	81,430	200	73,087	National + Provincial Budget	FS
4010	3	Infrastructure of Le Thanh economical park	Duc Co		Internal road and related infrastructure	2016-2020	95,000	0	85,000	National Budget	FS
	VI	Agriculture									
40	1	Forests for Livelihood Improvement in the Central Highlands	Krong Pa, Ia Pa, Krong Chro, Kbang		Sustainable management and development of forest resources; Improvement of livelihoods. Capacity building. Project management and implementation.	2007-2016	244,960	180,426	17,100	ODA (ADB)	Completion
40	2	Project on Support to Agriculture, Farmers and Rural	Dak Doa, Kong Chro, Krong Pa, Kbang, Ia Pa		Institutional Strengthening for Implementation of Pro-Poor Initiatives. Promotion of Pro-Poor Value Chains. Commune Market-oriented Socio-economic Development Planning and Implementation.	2014-2017	287,100	69,500	186,332	ODA (IFAD)	Under Implementation
40	3	Central Highlands Poverty Reduction Project - Gia Lai Province	Krong Pa, Ia Pa, Kbang, Kong Chro, Mang Yang		Village and commune infrastructure development. Sustainable livelihoods development will support ethnic minorities (EMs) and other households in the targeted areas. Connective infrastructure development, capacity building, and communications.	2013-2018	600,734	39,376	545,285	ODA (WB)	Under Implementation
40	4	Project on development of rural infrastructure for production in the Central Highlands	Krong Pa, Chu Pah, Dak Doa, Dak Po		Fund for building irrigation systems, and associated PRI including: rural access infrastructure; and, local markets	2014-2018	273,000	13,533	13,200	ODA (ADB)	Under Implementation
40	5	Vietnam Sustainable Agriculture Transformation Project (VnSAT)	Ia Grai, Dak Doa, Chu Prong		Building capacity and stimulating organisational development in the Ministry of Agriculture and Rural Development and its selected provincial departments, project participating provinces and value chain players (including banks). Enhancing sustainable development in rice production. Enhancing sustainable development of coffee production. Providing necessary tools and training to monitor and manage the project.	2016-2020	174,086	0	9,000	ODA (WB)	Under Implementation
40	6	Project on the development of plant and animal breeds and experiments and application of science and technology	whole province		New construction and upgrading plant and animal breeds center and procement equipment	2016-2020	80,000	0	72,000	National + Provincial Budget	FS
41 - Dak Lak Province											
	I	Road & Bridge									
4101	1	Upgrading road section from NR.14 (crossing to Le Duan Str.) to Ea Kao Eco tourism area	Buon Me Thuot	Ea Kao	L=6km; Urban road; asphalt pavement; Width: 12/24 (m); L bridge = 18m; 2x5,0 m sidewalk, Drainage system, Lighting	2016-2020	115,000	3,100	69,000	National Budget	Under Implementation
4101	2	East-western Road of Buon Me Thuot city	Buon Me Thuot		Length: 6.9 km; Class II; Design Speed: 80 km/h; Width: 58m	2015-2017	998,117	55,000	400,000	National + Provincial Budget	Under Implementation
4101	3	Lighting Electricity system of western ring road of Buon Me Thuot city	Buon Me Thuot		Lighting system and related infrastructure on western ring road of BMT city, total length 14km;	2016-2020	80,000	0	500	Government Budget	Pre-FS
4102	4	Inter-district road of Ea H'leo - Cu M'gar	Ea H'leo		Length of road 16.4 km, class: IV-mountain area	2010-2012	51,358		16,436	ODA (Jica)	Completion

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4102	5	Inter-communes road of Dlie Yang-Ea Hleo	Ea H'leo	Dlie Yang	10 km, class V-mountain area, BPM pavement	2010-2012	32,567		8,450	ODA (Jica)	Completion
4102	6	Inter-district road of Ea H'leo - Krong Nang	Ea H'leo		10 km, class V-mountain area	2013-2014	39,904		5,068	ODA (Jica)	Completion
4102	7	Upgrading and Innovating provincial road No.15, section Km0 - Km18+231,5 (provincial linked road Dak Lak - Gia Lai)	Ea H'leo		Length: 18.2 km; Class: IV; Design Speed: 40 km/h; Width: 7/9m; Asphalt Pavement	2009-2015	100,589	88,515	10,541	National + Provincial Budget	Under Implementation
4103	8	Traffic road from 739 Medium troops to Station 2, la Rve commune	Ea Sup	la Rve	5km class V-mountain road, BPM pavement	2013-2015	33,320	24,000	9,320	National Budget	Under Implementation
4103	9	Inter-Communes road of Ya To Mot - Ea Rok communes	Ea Sup	Ya To Mot, Ea Rok	Width 3.5/6.5 (m), cement concrete and Macadam pavement, L=7km	2010-2013	35,641	21,000	14,641	National + Provincial Budget	Under Implementation
4103	10	Traffic road from Ea H'leo (Km613- NR No.14) to west-North border (Stage 2)	Ea Sup		Class V-mountain area, BPM pavement, width 3.5/6m	2015-2017	108,554	41,000	62,000	National + Provincial Budget	Under Implementation
4103	11	Inter-communes road of Cu Kbang-Ea Rok	Ea Sup	Cu Kbang, Ea Rok	Rural road, macadam pavement	2009-2011	12,042	9,750	3,504	National + Provincial Budget	Completion
4114	12	Urban road and urban infrastructure of administrative center of CuKuin district	Cu Kuin		Internal roads for 56,46ha administrative center of Cu Kuin and other infrastructure (lighting, drainage, ...);	N/A	73,137	50,166	22,999	National + Provincial Budget	Under Implementation
4114	13	Road from Ea Hu commune/Cu Kuin to Hoa Thanh commune, Krong Bong	Cu Kuin Krong Bong	Ea Hu, Hoa Thanh	Rural road, macadam pavement	2009-2011	20,210	19,400	810	National Budget	Completion
4105	14	Road from Cu Ne commune to Ea Nguoi village	Krong Buk	Cu Ne	Rural road, macadam pavement	2010-2011	10,394	9,730	79	National + Provincial Budget	Completion
4115	15	Inter-communes road of Buon Ho-Ea Blang-Ea Sieu of Krong Buk district to Ea Phe commune, Krong Pak	Buon Ho	Buon Ho, Ea Blang, Ea Sieu	L=22 km, class V-mountain area, BPM pavement	2010-2012	70,777		2,905	ODA (Jica)	Completion
4115	16	Bridge to Ea Sien commune	Buon Ho	Ea Sien	Concrete bridge, L=100m (3x33m); width: 7m	2010-2012	13,286	11,641	1,913	National + Provincial Budget	Completion
4106	17	Traffic road from Yok Don National Park to Border Guard Station No.5 (Station 743)	Buon Don		Class V-mountain area, BPM pavement, width 3.5/6m	2016-2017	80,000	15,000	48,000	National Budget	Under Implementation
4106	18	Road from Krong Ana commune - border Guard Station 749 area to Border	Buon Don		Class V-mountain area, BPM pavement, width 3.5/6m	N/A	80,000	1,000	1,000	National Budget	Pre-FS
4107	19	Extending and upgrading PR No.8, section Km8 - Km13+393	Cu M'gar		Length: 5.4km; Class: Urban main Road; Design Speed: 40 km/h; Width: 14/26 m	2012-2016	171,645	91,500	80,145	National + Provincial Budget	Completion
4107	20	Road to administrative center of Cu M'gar commune	Cu M'gar	Cu M'gar	Class V-mountain area	2013-2017	140,254	76,000	64,248	National Budget	Under Implementation
4107	21	Drainage system of PR No. 8 (Km16 - Km25+500)	Cu M'gar		Repairing and widening the outlet of existing culverts in section Km16 - Km25+500, PR. 8	2009-2011	23,593	22,732	2,153	National Budget	Completion
4108	22	Road connected NH No.26 to Dak Lak - Phu Yen province Road (Stage 2)	Ea Kar		Length 14.59 km, class IV-mountain area, asphalt pavement	2010-2016	85,158	74,900	10,258	National + Provincial Budget	Under Implementation
4108	23	Inter-Communes road of Ea O - Cu Ea Lang communes	Ea Kar	Ea O, Cu Ea Lang	L=12.6km, class IV-mountain area	2014-2016	37,665	25,232	12,433	National Budget	Under Implementation
4108	24	Inter-commune road Xuan Phu - Ea So, Ea Kar Dist.	Ea Kar	Xuan Phu, Ea So	L=16 km, class V-mountain area, width 3.5/6.0m	2016-2020	31,156	8,000	31,156	National + Provincial Budget	Under Implementation
4111	25	Inner Roads of Krong Kmar town	Krong Bong	Krong Kmar	Urban road and other infrastructure;	2013-2017	42,199	29,008	13,191	National + Provincial Budget	Under Implementation
4111	26	Security road at Hoa Phong - Cu Pui communes	Krong Bong	Hoa Phong, Cu Pui	L=5.4 km, class V mountain area, width = 3.5/6.5m, 2.8km cement concrete pavement, 2.6km BPM pavement;	2015-2017	37,678	19,000	18,678	National Budget	Under Implementation
4111	27	Traffic road from Cu Dram commune to Khanh Vinh	Krong Bong	Cu Dram, Khanh Vinh	L=10.08 km, class IV-mountain area, asphalt pavement;	N/A	142,550	56,475	26,990	National + Provincial Budget	Under Implementation
4111	28	Inner Kieu, Koanh M'ghi village area roads, Yang Mao commune	Krong Bong	Yang Mao	Class B-Rural road;	N/A	7,991	7,192	1,992	Government Budget	Completion
4112	29	Inner Roads of Buon Trap town	Krong Ana	Buon Trap	Urban asphalt roads (12 roads) and other infrastructure	2009-2012	65,067	38,800	26,267	National + Provincial Budget	Completion
4112	30	Road to Ea Na commune center, Krong Ana Dist.	Krong Ana	Ea Na	Class V-mountain area, BPM pavement, width 3.5/6m	2016-2020	31,551	10,000	31,551	National Budget	Under Implementation
4113	31	Inner Yong Hat and Trang Yuk villages roads, Krong No commune	Lak	Krong No	Rural road	N/A	7,698	6,800	1,735	National Budget	Completion
4113	32	Road of Krong No commune center	Lak	Krong No	Rural road	N/A	9,426	8,500	1,300	National Budget	Completion
4113	33	Inner Ro'Chai A+B village area roads	Lak	Krong No	Rural road	N/A	8,709	7,700	1,578	National Budget	Completion
4113	34	Road from center of Krong No commune to Ro Chai A village, Krong No commune	Lak	Krong No	Class V-mountain area road	N/A	80,000	12,416	48,046	National Budget	Under Implementation

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
41	35	Inter-District road of Ea H'leo - Ea Sup	Ea H'leo, Ea Sup		L=28.5km	2011-2020	245,343	134,671	140,672	National + Provincial Budget	Under Implementation
41	36	Traffic road from Ea Wer, Buon Don district to Hoa Hiep, Cu M'gar district	Cu M'gar, Buon Don	Ea Wer (Buon Don), Hoa Hiep (Cu M'gar)	Class V-mountain area, BPM pavement, width 3.5/6m	2016-2020	34,571	10,000	34,571	National Budget	Under Implementation
41	37	Krong Ana river-cross Bridge connecting Provincial road No.2 and No.7	Krong Ana, Lak		Length of Bridge: 200 m; Class: IV - Mountain area; Design Speed: 40 km/h; Width: 7.5m	N/A	98,780	5,000	63,178	National + Provincial Budget	Under Implementation
	II	Irrigation									
4103	1	Solidification of canal branches of N9 canal	Ea Sup		Replace earth canals by concrete canal	2016	9,620	0	8,000	Government Budget	Pre-FS
4103	2	Ea Tu reservoir at Ea Tu commune	Ea H'leo	Ea Tu	N/A	2016	12,837	0	10,000		
4105	3	Ea Kuch Irrigation, Cu Pong commune	Krong Buk	Cu Pong	N/A	2016	14,000	0	12,000		
4106	4	Collapsing prevention for Se re Pok river, section inside Buon Don tourism area	Buon Don		Slope protection	2016-2020	31,003	11,000	9,297	National + Provincial Budget	Under Implementation
4106	5	Dak Minh Reservoir	Buon Don		N/A	2016	8,680	0	8,000		
4107	6	Lah 1 reservoir, Ea Drong commune	Cu M'gar	Ea Drong	N/A	2016	11,352	0	10,000		
4109	7	Irrigation Works at Ea H'Mlay commune	M'Drak	Ea H'Mlay	N/A	2016	7,000	0	7,000		
4111	8	Son Phuong irrigation Works, Upgrading and solidification canals and Ditches	Krong Bong		N/A	2016	11,140	0	10,000		
4111	9	Ho Ke Irrigation Project, Hoa Le commune	Krong Bong	Hoa Le	10 ha wet rice, 2 crops	2009-2012	25,243		763	ODA (Jica)	Completion
4111	10	Solidification of Krong Kmar irrigation canal	Krong Bong	Krong Kmar	550 ha of 2 crops of paddy, 30 ha of subsidiary	2011-2015	36,753		264	ODA (Jica)	Completion
4112	11	Irrigation to innovate field of Krong village, Dur Kmai commune	Krong Ana	Dur Kmai	Upgrading internal canal system	N/A	21,862	11,600	4,685	National + Provincial Budget	Under Implementation
4112	12	Ea Tu reservoir 2	Krong Ana	Buon Trap	N/A	2016	9,000	0	9,000		
4113	13	Nam Kar reservoir	Lak		N/A	2016	10,500	0	8,000		
41	14	Irrigation Project used loan from Kuwait	Entire province		Construction on-farm road and small scale irrigation system	2006-2011	430,243		5,500	ODA (Kuwait)	Under Implementation
41	15	Dam safety improving and repairing Project	Entire province		Repairing and strengthening 26 reservoir in 10 district, service area 4478ha	2016-2020	415,360		73,630		
	III	Water Supply									
4107	1	Drinking water supplying Works of Ea Yieng commune	Cu M'gar	Ea Yieng	National program base on Degree No.117/NB-CP date 11/7/2007	2016	12,000	0	10,000	Government Budget	Under Implementation
4110	2	Drinking water supplying Works of Ea Yieng commune	Krong Pak	Ea Yieng	National program base on Degree No.117/NB-CP date 11/7/2007; Design capacity: 175 m3/day; Beneficiaries: 2,400 persons	2016	7,500	0	7,000	Government Budget	Under Implementation
4115	3	Water Supply project for Buon Ho area	Buon Ho town	Buon Ho	Capacity: 5,600 m ³ /day; Surface water plant and underground water plant (7wells); Pile line (10.5km Sedimentation; 12km second pile; 37.5km third pile to households)	2011-2019	120,193	0	33	Koica	Under Implementation
4115	4	Improve the efficiency of the water supply project in Buon Ho town	Buon Ho town	Buon Ho	Widening distributed network of Buon Ho domestic water supply system. Total length of pile line 35,900m (grade IV); Number of beneficiaries 2,285 households;	2017	19,612	0		Koica	DD
41	5	Scale Extending Program on rural drinking water and hygiene	Entire province		Upgrading and Repairing 03 rural water system in Thang Le, Hoan Le/Krong Bong district and Bong Krang/Lak; Upgrading and widening Ea Tul domestic water system/Cu M'gar; New construction 2 system in Tan Tien/ Krong Pac and Hoa Thanh/Krong Bong ; Total 2,023 households.	2016-2020	247,032		49,692	WB	Under Implementation
	IV	Electricity									
4102	1	Medium voltage network and transformer at Ea Tu commune	Ea H'Leo	Ea Tu	35kV line and transformer	2009-2012	8,913	0	1,020	National Budget	Completion
4104	2	Medium-low voltage electricity network and transformer at Ea Toh commune (GD 2)	Krong Nang	Ea Toh	35kV line, 380V line and transformer	2009-2011	14,841	8,365	7,476	Government Budget	Completion
4109	3	Innovating and upgrading medium-low voltage electric network and transformer of M'Drak town, Krong Jin commune and Cu M'gar commune	M'Drak	M'Drak town, Krong Jin, Cu M'gar	1.01 km	N/A	14,242	0	1,080	Government Budget	Completion
41	4	Rural electrical supplying project from National Electrical network in Dak Lak province	Entire province		Construct electricity distribution network to 250 villages in 105 communes, 15 districts. New construction and upgrading 293km medium voltage line and 420km low voltage line. Beneficiaries 22,408 households in Dak Lak	2017-2022	887,000	0	105,000	Government Budget	Under Implementation
	V	Climate change and Flood prevention									
4110	1	Construction of boundary dyke for flood prevention for	Krong Pak	Ea Kuang	Construct new dike to protect Thang Lap field	2015-2017	14,994	12,600	3,394	Government Budget	Under Implementation

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
		field of Thang Lap village									
4111	2	Revetment for collapsing prevention at left side of Krong Kmar Stream, Krong mar town	Krong Bong	Krong mar town	Strengthening and protection slope embankment on the left side of Krong Ma stream, section Krong Ma town by concrete	2013-2017	160,009	0	70,009	Government Budget	Under Implementation
41	3	Improve efficiency of water use for the drought affected provinces	whole province		Improving institutional arrangements, irrigation management policies, applying water saving irrigation technology and upgrading and improving infrastructure inside fields.	2016-2020	553,250	0	0	ADB	Under Implementation
42 - Dak Nong Province											
	I	Road and Bridge									
4201	1	Ton Duc Thang road to connect South and North	Gia Nghia		Preparation works: L=2km; Class: II; Pavement structure: asphalt; Width: 7m x 2=14m, side-walk 5m x 2=10m, centre median: 12m;	2016	427	0	420	Government Budget	Pre-FS
4201	2	Road to Dak R'Moan, Gia Nghia commune	Gia Nghia Town	Gia Nghia	L=13km; BPM Pavement	2012-2014	26,082	7500	1,434	Government Budget	Completion
4201	3	Connection road from Administrative center of Gia Nghia town and Administrative center of Dak Nong province (GT2)	Gia Nghia Town		L=3.338km; Pavement structure: asphalt; Width: 5m x 2=14m, side-walk 5m x 2=10m, center median: 1m;	2005-2009	48,092	38377	7,020	Government Budget	Completion
4201	4	Dam Bri road and main roads at Group No.5, Sung Duc, Gia Nghia commune	Gia Nghia Town	Gia Nghia	New road connecting to Sung Duc administrator internal roads with other infrastructure; pavement: asphalt;	2008-2012	61,845	51411	3,178	Government Budget	Completion
4201	5	Road No.1 of North-South road, Gia Nghia urban zone	Gia Nghia Town		L= 3.128km; Class: II; Pavement structure: asphalt; Width: 7m x 2=14m, side-walk 5m x 2=10m, center median: 12m;	N/A	96,119	84975	7,579	Government Budget	Completion
4201	6	No Trang Long road, Gia Nghia town (renamed into Y Bih Aleo road now)	Gia Nghia Town		L= 1.9km; Asphalt Concrete Pavement and urban infrastructure (lighting, drainage and sidewalk, ...)	2013-2015	34,850	27582	1,700	Government Budget	Completion
4201	7	Road to Border Guard headquarter of DakNong province	Gia Nghia Town		L=1.863 Km; Asphalt Concrete Pavement	2006-2007	5,622	5320	64	Government Budget	Completion
4201	8	Main roads in administrative center of Dak Nong province	Gia Nghia Town		L=3.308km; Asphalt Concrete Pavement; width: 5.5/7.5m, sidewalk 5m x 2=10m;	2006 - 2008	28,566	23665	296	Government Budget	Completion
4201	9	Road to main gate of Dak Nong hospital province	Gia Nghia Town		416 m of asphalt concrete road	2009-2011	9,979	7778	137	Government Budget	Completion
4201	10	Connection road from north-South road of Stage 2 to existing Le Thanh Tong Road	Gia Nghia Town		L=120 m; Class: III; asphalt Concrete Pavement	2015-2017	4,050	1400	1,890	Government Budget	Completion
4201	11	Road to new barracks of Gia Nghia town military headquarter	Gia Nghia Town		Urban road and other infrastructure;	2013-2014	10,249	9289	671	Government Budget	Completion
4201	12	Block 1 from 23/3 Road to road heading to Nguyen Thi Minh Khai Junior school and Block 2 from Road heading to Nguyen Thi Minh Khai junior school to Cao Thang str	Gia Nghia Town		L=257.3 m; Urban Road, asphalt Concrete Pavement	2015-2017	10,656	2735	5,700	Government Budget	Under construction
4201	13	3 roads around Boarding School of the province	Gia Nghia Town		Urban road and other infrastructure;	N/A	15,720	14903	321	Government Budget	Completion
4201	14	Lane of group 2, Nghia Tan ward (Section from Quang Trung street to Tran Hung Dao street), Gia Nghia town	Gia Nghia Town		L=2.3km; Right of way: 14 m	2013-2017	60,553	33000	21,000	Government Budget	Under construction
4201	15	Road from provincial general hospital to Le Thanh Tong, Gia Nghia town	Gia Nghia Town		L=1.718 km cement concrete pavement; Urban Road;	2013-2017	74,060	37296	29,000	Government Budget	Under construction
4201	16	Ly Thai To street to resident relocation B (Stage 1), Dak Nur Hill; Nghia Duc ward	Gia Nghia Town	Nghia Duc	L=1.591 km; Urban Road, Grade III; Asphalt Pavement	2014-2018	82,500	31510	42,000	Government Budget	Under construction
4201	17	Road at West side of Center lake project	Gia Nghia Town		L=4km; Class: III; Asphalt Pavement and other infrastructure system; Width: 6.0/9.0m;	2019-2023	120,000	0	36,000	Government Budget	Pre-FS
4201	18	Linking all of the main roads of urban zone No.4, Gia Nghia town	Gia Nghia Town		- New construction road and other urban infrastructure for resident area no. 4 (system for domestic water, electricity, drainage, lighting, ...); - New construction 9 urban roads, total length: 5234m, desing speed: 30km/h, pavement: asphalt;	2019-2023	90,000	0	27,000	Government Budget	FS
4201	19	Eastern side Road of Center Lake	Gia Nghia Town		New construction 4km urban road on the eastern side of Gia Nghia center lake. Pavement: asphalt and other urban infrastructure (lighting, drainage, sidewalk, ...);	2020-2024	160,000	0	24,000	Government Budget	Pre-FS
4201	20	Traffic road from National road 28 to Lieng Nung Eco-culture tourism area	Gia Nghia		L=3.3 km	2015-2017	24,000	6870	11,247	Government Budget	Under construction
4201	21	Lighting lamp and decorated lamp system for North-South road, Stage 2, Gia Nghia Section	Gia Nghia		Grade II	2015-2017	9,400	3300	5,100	Government Budget	Under construction
4202	22	Commune linked traffic road of Dak Som - Dak R'Mang	Dak Glong	Dak Som, Dak R'Mang	N/A	2016-2020	107,670	0	28,500	Government Budget	Pre-FS
4202	23	Village 04 and 05 linked traffic road	Dak Glong	Dak Ha	N/A	2016-2020	14,783	0	3,500	Government Budget	Pre-FS

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4202	24	Road to Hospital	Dak Glong	Dak Glong town	N/A	2016-2020	14,750	0	8,000	Government Budget	Pre-FS
4202	25	Main road through administrative area of Dak Glong district	Dak Glong		Preparation works. L= 6.4km; Class: III-Mountain Area; Width=6.0/9.0m; Asphalt Concrete Pavement; Design speed=60km/h	2016	595	0	560	Government Budget	Pre-FS
4202	26	Quang Son road to Station 9, Provincial road No.6	Dak Glong		L=44km; Class: IV-Mountain Area; Width = 5.5/7.5m; Design Speed: 40km/h; BPM Pavement;	N/A	110,862	98986	9,853	Government Budget	Completion
4202	27	Dak Rmang bridge in Quang Son commune	Dak Glong	Quang Son	Length of bridge = 335.47 m	2011-2013	8,941	7500	1,312	Government Budget	Completion
4202	28	Secure road of Quang Khe commune	Dak Glong	Quang Khe	Preparation work: Width of road: 5.5/9.0m; Macadam Pavement;	2016-2020	680	0	680	Government Budget	Pre-FS
4202	29	Commune linked road of Quang Khe - Dak R'Mang communes	Dak Glong	Quang Khe, Dak R'Mang	Length of road 23.1776km; BPM Pavement;	N/A	34,515	11018	106	Government Budget	Completion
4202	30	Main roads in administrative center of Dak Glong district	Dak Glong	Dak Glong town	L=6.347km; Urban main Road; Asphalt Pavement;	2018-2022	87,330	0	39,000	Government Budget	Pre-FS
4202	31	Rural traffic road of free immigrant settle planning project at Trang Ba, Dak Ha commune	Dak Glong	Dak Ha	L=7.26km; Class: B - rural road; Macadam Pavement	2008-2009	6,037	5841	25	Government Budget	Completion
4202	32	Road to commander headquarter (ST10 Works)	Dak Glong		N/A	2013-2015	15,000	13884	433	Government Budget	Completion
4203	33	Commune linked traffic road of Truc Son - Cu K'Nia - Dak Drong - Nam Dong	Cu Jut	Truc Son, Cu K'Nia, Dak Drong, Nam Dong	Preparation works. L=20km; Class: IV-mountain area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM Pavement	2016	928	0	500	Government Budget	Pre-FS
4203	34	Commune linked road of Truc Son - Cu K'Nia -Dak Drong - Nam Dong	Cu Jut	Truc Son, Cu K'Nia, Dak Drong, Nam Dong	Construction work: L=20km; Class: IV-Mountain Area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM pavement;	2019-2023	90,000	0	36,000	Government Budget	Pre-FS
4203	35	Road to Ea Po commune	Cu Jut	Ea Po	L=20 km; Class: III - mountain area; Width: 6.0/9.0m; BPM Pavement;	2020-2024	90,000	0	18,000	Government Budget	Pre-FS
4203	36	Border Guard road 751 attached to Border patrol road	Cu Jut		L=5.667 km	2015-2017	12,000	4200	6,600	Government Budget	Under construction
4204	37	Upgrading Dak R'La - Long Son Road	Dak Mil	Dak R'La, Long Son	Preparation works. L=8.8km; Class: IV-mountain area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM Pavement	2016	696	0	350	Government Budget	Pre-FS
4204	38	Upgrading and innovating road to 757 Border Guard Station	Dak Mil		N/A	2010-2013	12,655	11013	1,207	Government Budget	Đã hoàn thành
4204	39	Road to 757 Border Guard Station	Dak Mil		L=8.08km; BPM pavement; Class: VI - Mountain area; Width=3.5/6.0m;	N/A	8,670	7375	59	Government Budget	Completion
4204	40	Upgrading Le Duan street, Dak Mil town	Dak Mil	Dak Mil	L=3.0km; Class: Urban main Road; Width: 14/26m; asphalt Pavement;	N/A	44,507	18982	3,271	Government Budget	Completion
4204	41	Road from Dak Mam to Station 7(759). 2 sections of provincial road from Km0+000 - Km0+900 and connection section N7 of Dak Mam town, Krong No district	Dak Mil	Dak Mam	L=1.5km; Asphalt Concrete Pavement	2013-2017	78,035	40,000	36,000	Government Budget	Under construction
4204	42	Upgrading the main roads of Dak Mil town	Dak Mil	Dak Mil town	L=2.51km; Urban Road; Asphalt Pavement; Width: 6.0 ~ 9.0 (m)	2019-2023	83,000	0	24,500	Government Budget	Pre-FS
4204	43	Commune linked road Dak Lao to Thuan An	Dak Mil	Dak Lao, Thuan An	L=7 km	2015-2017	49,939	1700	25,000	Government Budget	BVTC
4205	44	Upgrading provincial road 4, Dak Mam inner town section	Krong No	Dak Mam	Preparation works. L=4km; Class: III-Mountain Area; Asphalt Concrete Pavement; Width: 16/26 (m)	2016	560	0	560	Government Budget	Pre-FS
4205	45	Traffic road to Buon Choah commune	Krong No	Buon Choah	Preparation works. L=19km; Class: IV-mountain area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM Pavement	2016	507	0	450	Government Budget	Pre-FS
4205	46	Construction of section from Km21+636.11 - Km24+636.11 of Dak Mam to Station 7 (759) - Provincial road No.3	Krong No	Dak Mam	L=3 Km; Width: 3.5/6.5m; BPM Pavement; Class: V - Mountain Area	2015-2017	14,900	5300	5,305	Government Budget	Under construction
4205	47	Traffic road from Tan Thanh commune, Krong No district to Dak Sac commune/Dak Mil	Krong No	Dak Sac	L=14 km of asphalt concrete Pavement	2013-2017	85,569	49305	35,000	Government Budget	Under construction
4205	48	Traffic road to Buon Choah commune	Krong No	Buon Choah	L=19km; Class: IV-Mountain Area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM pavement;	2019-2023	80,468	0	35,000	Government Budget	Pre-FS
4205	49	Upgrading provincial road No.4, section of Dak Mam inner town	Krong No	Dak Mam	L=4km; Class: IV-Mountain Area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM pavement;	2020-2024	85,158	0	17,000	Government Budget	Pre-FS
4205	50	Forestry Road Nam Nung	Krong No	Nam Nung	L=70.887km; Class: B-rural road; None Pavement layer	2011-2013	34,972	31373	3,599	Government Budget	Completion
4206	51	Ring road at eastern Dak Song	Dak Song		Preparation works. L=10.5km; Class: V - mountain area; Width = 3.5/6.5m; Design speed: 30km/h	2016	819	0	550	Government Budget	Pre-FS
4206	52	Traffic Road from Duc An - Nam Njang, Dak Song district	Dak Song	Duc An, Nam Njang	L=5.8km, BPM Pavement	N/A	22,475	18273	1,000	Government Budget	Completion
4206	53	Commune linked road of Truong Xuan - Nam N'Jang, Dak Song district (Stage 1: from National Road 14 to Village 8, Truong Xuan commune)	Dak Song	Truong Xuan	L=5km;	2013-2015	29,155	25000	1,200	Government Budget	Completion
4206	54	Traffic road of Duc An - Nam Binh	Dak Song	Duc An, Nam Binh	L=7.27km; Class: III - mountain area; Width: 7.5/9.0m; BPM pavement;	2015-2017	40,000	14000	22,000	Government Budget	Under construction
4206	55	Ring road at western-South of Dak Song District	Dak Song		L=6.376km; Class: III - mountain area; Width: 7.5/9.0m; BPM pavement;	2015-2017	37,000	12000	21,000	Government Budget	Under construction
4206	56	Road to Dak Hoa commune	Dak Song	Dak Hoa	L=12.52 km; Class: IV - Mountain Area; BPM Pavement; Width: 5.5/7.5m; Length of Bridge = 15m;	2013-2017	56,653	32917	18,000	Government Budget	Under construction

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4206	57	Eastern Ring road of Dak Song district	Dak Song		L=10.5km; Class: V - mountain area; Width = 3.5/6.5m; Design speed: 30km/h	2019-2023	85,000	0	25,500	Government Budget	Pre-FS
4206	58	Traffic road from center of Dak Song District to Thuan Ha and Dak N'drung communes	Dak Song	Thuan Ha, Dak N'drung	L=20km; Class: V - mountain area; Width = 3.5/6.5m; BPM Pavement. Design speed: 30km/h	2020-2024	82,000	0	16,400	Government Budget	Pre-FS
4206	59	Traffic road from Thuan Ha commune center to National Road 14C, Dak Song district	Dak Song	Thuan Ha	L=15 km of asphalt Pavement	2013-2015	49,552	31500	14,752	Government Budget	Completion
4206	60	Traffic road from 765 border Guard Station to Thuan Nghia village, Thuan Hanh commune	Dak Song	Thuan Hanh	L=17.27km; Class: IV-Mountain Area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM pavement;	2016-2020	81,000	0	72,000	Government Budget	Pre-FS
4207	61	Traffic road from National Road 14 to provincial road 681	Dak Rlap		Preparation works. L= 6.4km; Class: III-Mountain Area; Width=6.0/9.0m; Asphalt Concrete Pavement; Design speed=60km/h	2016	595	0	560	Government Budget	Pre-FS
4207	62	Traffic road from National Road 14 to centers of Dak Rthi commune	Dak Rlap	Dak Rthi	L=7.27 Km; Class: VI-mountain Area; Width: 3.5/6.0m; BPM Pavement; Design Speed: 20km/h	N/A	27,929	26010	893	Government Budget	Pre-FS
4207	63	Main road through Kien Duc town center	Dak Rlap	Kien Duc	L=2.3km; Urban road; Asphalt Concrete Pavement	2004 - 2007	17,293	16783	126	Government Budget	Completion
4207	64	Road to Nhan Dao commune, Dak R'lap district	Dak Rlap	Nhan Dao	L=4.5km, Class: III-Mountain Area; Width: 7.5/9.0m; Asphalt Concrete Pavement; Design Speed: 60km/h	N/A	35,852	26734	1,500	Government Budget	Completion
4207	65	Commune linked Road of Kien Thanh - Dak Wer	Dak Rlap	Kien Thanh, Dak Wer	L=9.5km; Class: IV - Mountain Area; BPM Pavement; Width: 5.5/7.5m;	2013-2015	33,303	28500	1,500	Government Budget	Completion
4207	66	Traffic road from Kien Duc town center to communes Kien Thanh - Nghia Thang, Dak R'lap district	Dak Rlap	Kien Thanh, Nghia Thang	L=22km; Class: V - Mountain area; BPM Pavement; Width: 3.5/6.5m;	2013-2017	78,672	44800	29,000	Government Budget	Completion
4207	67	Upgrading provincial road 5, section from Nghia Thang commune center to Dao Nghia commune center	Dak Rlap	Dao Nghia	L=5.35 Km; Class: III - mountain area; Width: 7.5/9.0m; Design speed: 60km/h; Asphalt Pavement;	2015-2019	60,000	12000	42,000	Government Budget	Under construction
4207	68	Traffic road from Kien Duc town to communes Kien Thanh - Nhan Co - Nhan Dao Communes	Dak R'lap	Kien Thanh, Nhan Co, Nhan Dao	L=15km; Class: V - mountain area; Width = 3.5/6.5m; BPM Pavement. Design speed: 30km/h	2020-2024	85,005	0	17,000	Government Budget	Pre-FS
4208	69	Road to Dak Ngo commune	Tuy Duc	Dak Ngo	Preparation works. L=40km; Class: IV-Mountain Area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM pavement;	2016	1,061	0	450	Government Budget	Pre-FS
4208	70	Main Road through Tuy Duc district	Tuy Duc		2.46 km of asphalt concrete road	2010-2013	55,848	50751	1,392	Government Budget	Pre-FS
4208	71	Road to Dak Ngo commune	Tuy Duc	Dak Ngo	L=40km; Class: IV-Mountain Area; Design Speed: 40km/h; Width: 5.5/7.5m; BPM pavement;	2018-2022	170,000	0	95,000	Government Budget	Pre-FS
42	72	Dao Nghia - Quang Khe Road (Stage 1)	Dak R'lap - Gia Nghia	Dao Nghia, Quang Khe	L=45 km; Class: IV - Mountain Area; BPM Pavement; Width: 5.5/7.5m; Length of Bridge = 15m;	2015-2020	867,000	17139	200,000	Government Budget	Under construction
II Irrigation											
4203	1	Suoi Da Irrigation Works, Quang Hoa commune	Dak Glong	Quang Hoa	- Cement concrete dam, Height 6.6m at Đak N'Teng stream; Service area: 57.3 ha paddy, 359.1 ha coffee, 33.6 ha fruit. Main canal, L=1502m, branch canal L=2509m; - Pumping station: design capacity 330 kw (4 machines), service area: 236 ha paddy, 448 ha coffee, 16 ha fruit, 330m main canal, 2317m branch canal.	2016-2020	90,000	0	50,000	Government budget	Pre-FS
4204	2	Dam for living water	Dak Song	Thuan Hanh	Construct new reservoir, capacity 28350 m3, supplying for domestic water of Thuan Hanh commune 127m3/day. Earth dam, height 14.1m, length 75m;	2013-2015	5,174	4497	151	Government budget	Completion
4204	3	Thac Hon Reservoir, Duc Manh commune	Dak Mil	Duc Manh	Construct new reservoir, capacity 573000 m3, service area: 330ha coffee and aquaculture. Earth dam, height 20.2m, length 123m;	2013-2015	44,478	38365	3,207	Government budget	Completion
4204	4	Bac Son 1 Reservoir, Dak Gan commune	Dak Mil	Dak Gan	Construct new reservoir, capacity 1280820 m3, service area: 450ha coffee. Earth dam: height 18m, length 128m;	2011-2015	31,500	28966	1,274	Government budget	Completion
4204	5	Dak Klo Ou reservoir, Dak Lao commune	Dak Mil	Dak Lao	Construct new reservoir capacity 950670 m3 and transformative reservoir, capacity 189300 m3; Service area: 400ha coffee and aquaculture. Main reservoir: Earth dam height 20m, length 332m; transformative reservoir: earth dam 11.5m, length 260m. Main canal: L=1373m.	2020-2024	81,000	0	20,911	Government budget	Pre-FS
4205	6	Irrigation for Buon Lang village, Quang Phu commune	Krong No	Quang Phu	Construct new reservoir, capacity 369100 m3, service area 28ha paddy. Earth dam, height = 14.8m, length =130m, main canal L=960m.	2007-2009	4,961	4000	961	Government budget	Completion
4205	7	Pumping Station No.4, Buon Choah commune	Krong No	Buon Choah	Upgrading and widening pumping station: design capacity 55 kw, service area 150 ha paddy, length of main canal 820m, length of minor canal 1980m.	2014-2016	22,000	14700	5,100	Government budget	Completion
4205	8	Upgrading and repairing reservoirs of Dak Mam commune	Krong No	Dak Mam	Upgrading and preparing existing reservoir to new capacity 576000 m3, service area 12 ha paddy and 50 ha coffee. Preparing and construction slope protection existing earth dam, height 7.5m, length 130m.	2013-2017	61,280	35800	19,200	Government budget	Under construction
4206	9	Dak Son 3 irrigation Works, Dak Mol commune, Dak Song district (belonged to irrigation Works group of Dak R'lap - Dak Song)	Dak Song	Dak Mol	Construct new reservoir, capacity 902160 m3, service area 16ha paddy and 190ha coffee. Earth dam, height 14m, length 148m.	2012-2017	24,310	15666	1,200	Government budget	Under construction

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4207	10	Upgrading Irrigation Works of Dak Ru 1, Dak Ru commune	Dak R'lap	Dak Ru	Construct new reservoir, capacity 684620 m ³ , service area: 200ha coffee. Earth dam height 10.9m, length 202m.	2015-2017	15,205	5400	9,629	Government budget	Under construction
4207	11	Dak R'Til irrigation, Dak R'Tih commune	Dak R'lap	Dak R'Tih	Construct new reservoir, capacity 2224000 m ³ , service area: 128ha paddy and 100ha coffee. Earth dam height 16.2m, length 200.48m, main canal 3700m.	2005 - 2006	9,643	8090	61	Government budget	Completion
4207	12	Upgrading Dak Ria Dam, Dak R'Tih commune	Dak R'lap	Dak R'Tih	Construct new reservoir, capacity 1167500 m ³ , service area 15ha paddy and 100ha coffee. Earth dam height 10.8m, length 146m, main canal 1225m.	2005 - 2006	4,962	4562	16	Government budget	Completion
4208	13	Upgrading Dak buk So Dam and Road through administrative center of Tuy Duc District	Tuy Duc		Construct new reservoir, capacity 1322000 m ³ , service area: 70ha paddy and 150ha coffee. Earth dam height 10m, length 207m, main canale 3672m.	2010-2011	10,603	9544	27	Government budget	Completion
4208	14	Repairing, upgrading Dak B'Lieng irrigation Works, Dak Tih commune	Tuy Duc	Dak Tih	Construct new reservoir, capacity 1005340 m ³ , service area: 50ha paddy and 60ha coffee. Earth dam, height 8m, length 135m, main canale 2150m.	2009-2010	7,578	5689	24	Government budget	Completion
	15	Water Efficiency Improvement in Drought Affected Provinces in Central Highland	Dak Mil, Krong No, Cu Jut	Dak Mil town, Thuan An, Dak Lao, Duc Minh, Duc Manh, Long Son, Nam Xuan, Dak Drong, Cu K'nia, Nam Dong and Tam Thang	- Dak Mil and Krong No: Ensuring irrigated water for 6,021 ha of coffee and pepper, 729 ha of paddy. To create conditions for the application of advanced irrigation water-saving models into 100 ha of high economic value industrial trees; - Cu Jut: Ensuring irrigated water for 3,060 ha coffee and pepper, 600 ha of paddy;	2018-2023	452,950	0	43,742	ADB	FS
	16	Productive Rural Infrastructure Sector Project in the Central Highlands									
	16.1	Upgrading and reparation irrigation system in Cu Jut	Cu Jut		Service area 1.433 ha, consist of: 532 ha paddy, 285 ha coffee and pepper, 616 ha other crops. Upgrading 21.25 km rural road. New construction and reparation 8.489 km canal, new construction management office. Upgrading 01 earth dam (slope protection, break water wall, drainage, permeable treatment by bentonite), new construction spillway. New construction 01 pumping station, capacity 266m ³ /h - service area 60ha;	2014-2018	100,590	5,220	95,370	ADB	Under implementation
	16.2	Upgrading and reparation irrigation system in Krong No	Krong No		Service area 2.425 ha, consist of: 732 ha paddy, 1.095 ha coffee + pepper and 598 ha other crops. Upgrading 7.08 km rural road, new construction and reparation 11.4 km canal. Upgrading 04 existing dams, new construction management office, reparation spillway and 04 culverts.	2014-2018	128,531	5,297	123,234	ADB	Under implementation
	16.3	Upgrading and reparation Quang Loc irrigation system in Dak Sin commune, Dak R'Lap district	Dak Rlap		Service area 384.6 ha, consist of: 102.5 ha paddy, 260 ha coffee + pepper and 22.1 ha other crops. Upgrading 8.767 km rural road. Replacement 4.513 km existing canal by HDPE pile. Upgrading and reparation 305m dam, new construction inlet culverts and spillway.	2014-2018	73,036	4,201	68,835	ADB	Under implementation
	16.4	Upgrading and reparation Quang Loc irrigation system in Gia Nghia town	Gia Nghia		Service area 448.1 ha, consist of: 30 ha paddy, 371.7 ha coffee + pepper and 46.4 ha other crops. Upgrading 9km rural road. New construction and upgrading 2,685km canal and 01 management office. Upgrading 02 dams, new construction inlet culverts and spillway.	2014-2018	75,206	0	75,206	ADB	Under implementation
	16.5	Infrastructure development for aquacultural hatchery center	Dak Mil		New construction 3.3km supply canal and discharge canal, 4.8km rural road, leveling 16ha for new resident area, new construction 8.5ha pond for aquaculture.	2014-2018	44,000	0	44,000	ADB	Under implementation
	17	Dam Rehabilitation and Safety Improvement Project (DRaSIP/WB8)			Rehabilitate and improve dam safety in order to ensure structural stability, protect people and infrastructure						
	17.1	Suối Đá Lake	Dak Song		Earth dam: H _{max} =10.4m, L=150m, service area 85.01 ha. Water source: rain-water.	2016-2022	15,000	0	0	WB	FS
	17.2	Đắk R'La Lake	Dak Mil		Earth dam: H _{max} =10.5 m, L=200m, service area 89.57 ha. Water source: rain-water.	2016-2022	15,000	0	0	WB	FS
	17.3	Thuận An Lake	Dak Mil		Earth dam: H _{max} =14 m, L=192m, service area 87.72 ha. Water source: rain-water.	2016-2022	16,000	0	0	WB	FS
	17.4	Đắk Loou (Đắk Klou) Lake	Dak Mil		Earth dam: H _{max} =5.5 m, L=100m, service area 59.56 ha. Water source: rain-water.	2016-2022	25,000	0	0	WB	FS
	17.5	Bì Zê Rê lake	Dak Glong		Earth dam: H _{max} =10 m, L=110m, service area 75.6 ha. Water source: rain-water.	2016-2022	10,000	0	0	WB	FS
	17.6	Ong Hiên Dam	Dak Mil		Earth dam: H _{max} =6.5 m, L=110m, service area 65.99 ha. Water source: rain-water.	2016-2022	12,000	0	0	WB	FS
	17.7	Ong Truyền Dam	Dak Mil		Earth dam: H _{max} =5 m, L=80m, service area 35.82 ha. Water source: rain-water.	2016-2022	12,000	0	0	WB	FS
	17.8	Đắk Bliêng Lake	Tuy Duc		Earth dam: H _{max} =8 m, L=180m, service area 310.89 ha. Water source: rain-water.	2016-2022	5,000	0	0	WB	FS
	17.9	Sa Đa Cồ Lake	Dak Rlap		Earth dam: H _{max} =8 m, L=170m, service area 67.7 ha. Water source: rain-water.	2016-2022	15,000	0	0	WB	FS

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
	17.10	Nao Ma A Lake	Dak Glong		Earth dam: Hmax=12 m, L=110m, service area 80.36 ha. Water source: rain-water.	2016-2022	10,000	0	0	WB	FS
	17.11	Đăk Ken Lake	Dak Mil		Earth dam: Hmax=5 m, L=120m, service area 344 ha. Water source: rain-water.	2016-2022	12,000	0	0	WB	FS
	17.12	Km 41 lake	Dak Glong		Earth dam: Hmax=8,2 m, L=82m, service area 149.4 ha. Water source: rain-water.	2016-2022	15,000	0	0	WB	FS
	17.13	Ba Trong Lake	Dak Glong		Earth dam: Hmax=7 m, L=94m, service area 69.9 ha. Water source: rain-water.	2016-2022	17,000	0	0	WB	FS
	17.14	Bu Boong Lake	Dak Song		Earth dam: Hmax=9 m, L=45m.Điện tích tưới 50.56 ha. Water source: rain-water.	2016-2022	15,000	0	0	WB	FS
	17.15	Village No. 3 Lake	Dak Glong		Earth dam: Hmax=4,5 m, L=110m, service area 69 ha. Water source: rain-water.	2016-2022	17,000	0	0	WB	FS
	17.16	Đăk R'Lon Lake	Dak Song		Earth dam: Hmax=9,5 m, L=125m, service area 80.06 ha. Water source: rain-water.	2016-2022	6,630	0	0	WB	FS
	17.17	Đăk Ha Lake	Dak Glong		Earth dam: Hmax=12 m, L=130m, service area 198.7 ha. Water source: rain-water.	2016-2022	7,000	0	0	WB	FS
	17.18	Đăk Snao 1 Lake	Dak Glong		Earth dam: Hmax=9 m, L=105m, service area 82.9 ha. Water source: rain-water.	2016-2022	5,000	0	0	WB	FS
	III	Water Supply									
4203	1	Upgrading water supplying Works of Ea po commune	Cu Jut	Ea po	- Number of beneficiaries: 250 households; water source: 04 wells; - Design capacity: 450m ³ /day; - Raw water pile: 500m; Total distributed pile line 1, 2, 3: 2040m; - Connection pile line: 6669m; - Filter system, elevated tank and other facilities;	2017-2018	13,236	0	10,000	Government budget	DD
4203	2	Upgrading water supplying Works of Truc Son commune	Cu Jut	Truc Son	- Number of beneficiaries: 355 households (1775 persons); water source 03 wells; - Design capacity: 300m ³ /day; - Length of raw pile line 562.6m, distributed pile-line 1, 2, 3 5060m, connection pile-line 1746m; - Filter system, elevated tank and other facilities;	2017-2018	7,323	0	5,000	Government budget	DD
4205	3	Water Supply for Tan Thanh commune	Krong No	Tan Thanh	- Number of beneficiaries: 400 households; - Design capacity: 222m ³ /ngày.đêm; Length of 1st pile line: 1283m, 2nd pile line: 1012m, 3rd pile line: 10593m; - Filter system, elevated tank and other facilities;	2014	14,985	0	147	Government budget	Completion
4206	4	Drinking water supplying of Thuan Hoa, Thuan Tan and Thuan Hanh villages, Thuan Hanh commune	Dak Song	Thuan Hanh	N/A	N/A	9,959	0	765		
4206	5	Upgrading water supplying Works of Village 4, Thuan Ha commune	Dak Song	Thuan Ha	- Number of beneficiaries: 250 households; water source 03 wells; - Design capacity: 300m ³ /day; - Total length of pile line 1, 2, 3: 3637m; - Filter system, elevated tank and other facilities;	2017-2018	7,397	0	5,000	Government budget	DD
4207	6	Upgrading and repairing drinking water supplying Works of Nhan Co commune	Dak R'lap	Nhan Co	- Number of beneficiaries: 750 households; - Design capacity: 500m ³ /day; Reparation and replacement existing 790 pile line; - Main items: Intake station, treatment station, supply pile line system and electricity for operation;	2017	7,049	0	4,351	Government budget	Under construction
42	7	Scale Extension Program on rural drinking water and environment hygiene based on World Bank loan	whole province		Building 07 Rural WS; Preparing 13 Rural WS; Connection number: 5730 households; 42 toilets at school and 919 toilets at family;	2016-2022	201,807		165,209	WB	Under construction
	IV	Electricity									
42	1	Rural electrical supplying project from National electric network at Dak Nong province, stage 2018-2020	Dak Mil, Dak R'Lap	Quang Hoa, Manh Duc, Quang Tin	Electricity supply to 8 villages from national electricity system (village No. 11, 12/Quang Hoa), Giao village/Manh Duc/Dak Mil district; Village No. 1, 4, 6, 8, 9/Quang Tin/Dak R'Lap;	2018-2020	36,696	0	36,696	Government budget	FS
	V	Climate change and Flood prevention									
4203	1	Revetment at Buon Knha village, Dak Wil commune	Cu Jut	Dak Wil	Slope protection at Knhai village, Đăk Wil commune, total length of embankment 2488m;	2010-2012	13,540	12,300	669	Government budget	Completion
42	2	Upgrading Irrigation Works for drought prevention in Dak Nong province	Krong No, Dak Glong, Gia Nghia, Dak R'lap		- Krong No: Reparation and Upgrading Buôn Chóah (1, 2, 3, 5) pumping station and Đăk Rèn pumping station (1, 1A, 2, 3, 4, 5); Slope protection of Krong No river and Đăk Nang stream; - Dak Glong: Upgrading lakes in Dak Glong dosistrict (Chum Ia, Đăk Hlang, Trường Học; Trảng Ba, Buôn R' Cáp, Dạ Hang Lang lake); - Gia Nghia: Upgrading Nghia Phú lake; - Dak R'lap: Upgrading Đăk Sin, Đăk R'Tang lake;	2018-2020	198,500	0	149,000	Government budget	Pre-FS
	VI	Industrial									

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4207		Investment for Infrastructure of Nhan Co Industrial Park	Dak R'lap		Total industrial park: 148 ha; new construction 1 km internal road with asphalt pavement, and waste water treatment system, design capacity 2000m ³ /day;	2016-2020	100,000		100,000	Government budget + Private	Pre-FS
43 - Lam Dong Province											
	1	Road									
4301	1	Road from Ho Xuan Huong bridge to cross-road Darahoa (Road 723) linked to Da Lat city	Da Lat		L=5.4 km; Asphalt concrete pavement; width = 5,5/7,5m; Class: IV - mountain area; Design speed: 40km/h;	2015-2017	43,373		520	Government Budget	Pre-FS
4301	2	Road to tourism area of Tuyen Lam reservoir	Da Lat	Ward No. 3	Total length of urban road: 1.085 km and related infrastructure (lighting, side walk, drainage, center median, ...)	2013-2015	49,596	44,600	3,000	Government Budget	Under construction
4301	3	Rehabilitation & reparation of Nguyen Hoang road	Da Lat	Ward No. 7	L=2 km; Urban road; Asphalt Pavement and other related infrastructure	2015-2017	54,765	19,200	15,000		
4301	4	Interchange Phan Chu Trinh	Da Lat	Ward No. 9	L=10.5 km + interchange, traffic signs and lighting	2017	9,500	0	6,300	Government Budget	FS
4301	5	Doan Thi Diem road	Da Lat	Ward No. 4	L=1 km; Urban Road, Asphalt Pavement;	2013-2015	36,123	24,359		Government Budget	DD
4301	6	Tran Nhan Tong road	Da Lat	Ward No. 2	L=1 km; Urban Road, Asphalt Pavement;	2013-2015	24,000	21,000		Government Budget	FS
4301	7	Bac Son road	Da Lat	Ward No. 10	L=927m; Asphalt Urban Road; Width: 4,0/7,0m	2016	984	984		Government Budget	FS
4301	8	Improvement of interchange at road 3/2 Nguyen van Cu, Hai Thuong, Hai Thuong bridge	Da Lat	Ward No. 2	Upgrade 3 intersections; Repair asphalt Pavement and side walk; Rebuild Hai Thuong Bridge (L=9.24m) and traffic control system + sewage system;	2016	13,916		4,708	Government Budget	Under construction
4301	9	Improvement & expansion of Tran Quoc Toan road section Suong Nguyet Anh intersection - Tran Nhan Tong street	Da Lat	Ward No. 2	Upgrade 01 intersection; Improve 01 bridge; new build side walk and urban infrastructure (lighting, sewage);	2016	27,488		16,000	Government Budget	DD
4301	10	Nguyen Dinh Chieu-Suong Nguyet Anh Road	Da Lat	Ward No. 2	L=1.4 km; Urban road; Asphalt Pavement;	2015-2018	45,112		16,000	Government Budget	FS
4301	11	Rehabilitation & improvement of Ngo Quyen road	Da Lat	Ward No. 6	2.5 km urban road and other infrastructure	2017	32,604	0	22,476	Government Budget	Under construction
4301	12	Invest on pavement at km 230 +200-km234 of national road 20	Da Lat	Ward No. 3	New sidewalk of NH. 20, section bypass Da Lat city, total length 4 km	2017-2019	8,000	0	7,200	Government Budget	FS
4301	13	Nguyen Du road	Da Lat	Ward No. 10	L=0.834 km, urban road, asphalt pavement	2017-2020	10,000	0	9,000	Government Budget	FS
4301	14	Mai Hac De road & improvement of hospital interchange	Da Lat	Ward No. 6	Upgrading 300m urban road and intersection to Lam Dong hospital	2017-2020	10,000	0	9,000	Government Budget	FS
4301	15	Upgrading Dankia road and Phuoc Thanh bridge	Da Lat	Ward No. 7	Length of urban road 3.37 km	2018-2022	173,746	0	45,000	Government Budget	FS
4301	16	Pavement, lighting system around Ho Xuan Huong lake	Da Lat	Ward No. 1,8,10	Upgrading sidewalk and installation lighting of 7 km urban road	2018-2022	86,864	0	30,000	Government Budget	FS
4301	17	Pham Hong Thai road	Da Lat	Ward No. 10	Total length of urban road 0.907 km and related infrastructure (sidewalk, lighting and drainage, ...)	2019-2021	58,530	0	20,000	Government Budget	FS
4301	18	Ly Tu Trong road	Da Lat	Ward No. 2	Total length of urban road 0.83 km and related infrastructure (sidewalk, lighting and drainage, ...)	2017-2020	19,000	0	12,000	Government Budget	FS
4301	19	Bituminous road, lighting system, pavement improvement at some roads	Da Lat	Ward No. 2, 3, 4, 8, 9, 10	New asphalt structure for Nguyễn Tư Lức (3.100m), Trần Quốc Toàn (520m); Hồ Tùng Mậu (500m); Đinh Tiên Hoàng (1.500m); Hoàng Văn Thụ (1.400m); Trần Quốc Toàn (720m); Yersin (500m); Nguyễn Trãi (700m); Quang Trung street (1,350m long); Phan Chu Trinh street (890m long); Ho Xuan Huong road (2,000m long); Bui Thi Xuan street (1,850m long); Le Hong Phong Road (600m long)	2019-2022	100,000	0	40,000	Government Budget	FS
4301	20	Box culvert at Han Mac Tu road	Da Lat		box culvert 4m x 5m	2017	2,000	0	1,800	Government Budget	FS
4301	21	Lighting system, right side line, with Tuyen Lam tourism area, Da Lat city	Da Lat	Ward No. 4	Upgrading the lighting system of Tuyen Lam Lake;	2017	13,709	0	7,000	Government Budget	FS
4302	22	Phan Chu Trinh road	Bao Loc	Loc Tien	L=2.174 km; Urban Road; Asphalt Pavement	2010-2012	10,715	10,715		Government Budget	Completion
4302	23	Loc Nga-Tan Loc road	Bao Loc	Loc Nga, Tan Loc	L= 3 km; Width = 15/22m; Asphalt pavement; Urban main Road	2012-2014	22,068	22,068		Government Budget	Completion
4302	24	Luong Van can road	Bao Loc	Loc Son ward	L=1 km; Urban Road, Asphalt Pavement;	2012-2014	11,562	111,562		Government Budget	Completion
4302	25	Tran Quoc Toan road	Bao Loc	B'lao ward	L=2 km; Urban road; Asphalt Pavement;	2014-2017	33,232	31,000	1,470	Government Budget	Completion
4302	26	Doan Thi Diem road	Bao Loc	Loc Thanh	L=7 km urban road, asphalt pavement	2013-2017	139,462	67,933	57,000	Government Budget	Completion
4302	27	Linked road from Chi Lang to To Huu road	Bao Loc	Loc Son ward	L=1.372 km urban road, asphalt pavement	2016	9,038		3,000	Government Budget	Completion
4302	28	Linked road from Tuyen Lam to Prem pass	Bao Loc	Ward No.4	L=7.8 km; Asphalt concrete pavement; width = 5,5/7,5m; Class: IV - mountain area; Design speed: 40km/h;	2015-2017	244,826		18,000	Government Budget	Completion
4302	29	Hoang Van Thu road	Bao Loc	Ward No.1	Upgrading 0.56 km urban road with asphalt pavement	2017-2020	24,764	0	12,836	Government Budget	DD
4302	30	Nguyen An Ninh road	Bao Loc	DamBri	L=3.74 km urban road with asphalt pavement	2017-2019	14,700	0	9,900	Government Budget	Under construction
4302	31	Ly Thuong Kiet road (cross road of Ly Thuong Kiet -Dao Duy Tu to Bao lam dis boundary)	Bao Loc	Loc Phat ward	L=6.03 km, asphalt pavement	2017-2020	36,958	0	33,000	Government Budget	Under construction
4302	32	Phan Chu Trinh road	Bao Loc	Loc Tien	L=1.75 km; urban road; asphalt pavement	2010-2012	17,090	0	15,381	Government Budget	Completion
4302	33	Dinh Cong trang road	Bao Loc	Loc Chau	L=2.3 km; Asphalt Pavement; Width: 5,5/7,5 (m);	2017-2019	14,800	0	13,000	Government Budget	Under construction

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4302	34	Village road (10), Dai Loc commune	Bao Loc	Dai Loc	L=1.8 km	2018-2020	11,000	0	7,200	Government Budget	Basic design
4302	35	Le Thi Rieng road	Bao Loc	Dai Lao	L=3.75km; Class: V-mountain area; Width: 5.5/6.5m; Asphalt Pavement; Design speed: 30km/h;	2018-2021	22,000	0	10,000	Government Budget	FS
4302	36	Biao Sire road, Dai Lao commune	Bao Loc	Dai Lao	3km asphalt pavement	2016-2018	14,016	3,000	9,000	Government Budget	Under construction
4302	37	Access road to dump site, cemetery at Bao Loc city	Bao Loc	Dai Lao	L=4 km, class IV, asphalt pavement	2012-2016	24,261	24,172		Government Budget	Completion
4302	38	Lighting system at Bao Loc pass	Bao Loc	Dai Lao	Lighting system of 6.9km road	2018-2020	6,418	0	5,776	Government Budget	FS
4303	39	Road from National road 27 to Dak Nhang road	Dam Rong	Đạ K'Năng	L=9 km; Width=5.5m; Asphalt concrete pavement; Spillway works;	2013-2017	67,775		9,000	Government Budget	Completion
4303	40	Inter-commune road Da Rсай-Dak'M Rong	Dam Rong	Đạ R'Sal, Đạ M'Rông	L=13 km; Asphalt Pavement; Width: 4.0/7.0m	2012-2017	81,087	75,493	2,700	Government Budget	Completion
4303	41	Regional road 200 crossing Da K'Nang river, to Peop Le Phi Lieng	Dam Rong	Đạ K'Năng, Phi Liêng	L=6 km class IV, asphalt pavement	2018-2020	49,549	0	40,094	Government Budget	Under construction
4303	42	Road access to Dong Cho Rong production area, Dam Rong	Dam Rong	Đạ Tông	L=6 km; Class: GTNT-A; Cement Concrete Pavement; Width: 3.5/5.0 (m);	2018-2020	20,000	0	15,300	Government Budget	Under construction
4303	43	Road from Phi Lieng commune center to Tay Son	Dam Rong	Phi Liêng, Tây Sơn	L=7.6 km; Class: GTNT-A; Width: 3.5/6.0 (m); Cement Concrete Pavement;	2018-2020	25,000	0	10,000	Government Budget	Under construction
4303	44	Main road from Bang Lang cross-road to Km 1.6 Lien Hung-Dam Rong	Dam Rong	Rô Men	L=1.6 km; Asphalt Urban main Road (TCVN 104-2007); Width: 8.0/12.0 (m); 2x2.0 (m) sidewalk; Sewage system;	2019-2021	35,197	0	10,000	Government Budget	Under construction
4303	45	Inter-commune road Ro men-Da Rсай	Dam Rong	Rô Men, Đạ R'Sal	L=9 km; Width=5.5m; Asphalt concrete pavement; Spillway works;	2015-2017	36,259	22,630	6,337	ODA+Government Budget	Completion
4303	46	Construction of road between Da K'Nang commune, Dam Rong	Dam Rong	Lat	L=3.3km	2016-2018	11,600	3,500	6,900	Government Budget	Under construction
4304	47	Dong Tam road, Lac Duong town	Lac Duong	Lac Duong town	1 km urban road with asphalt pavement; width: 6/9.5m + sidewalk 2x1.75; drainage system;	2013-2015	13,000	13,000		Government Budget	Completion
4304	48	Main road from the planning area of Lat Moi commune center	Lac Duong	Lat Moi	2.75 km of road with cement concrete pavement (1.8km) and gravel (750m); width: 5.0/6.5m; 2 cross culverts and drainage system;	2015-2016	8,000	4,060	3,266	Government Budget	Completion
4304	49	Main road at the planning area, Dung K'No commune center	Lac Duong	Dung K'No	02 roads, L=0.5 km; Asphalt Internal Urban Road; Width: 5.0/10 (m); and sewage system	2015-2016	3,800		920	Government Budget	Completion
4304	50	Langbiang road, Lac Duong town	Lac Duong	Lac Duong town	L=3 km; Asphalt Pavement; Width: 15/22m + 2x2,5-Side walk + 2m center median;	2014-2018	99,882	58,000	31,000	Government Budget	Under construction
4304	51	Da Sar road, Lat commune (reach of 9.286 km)	Lac Duong	Lat	L=9.29 km, class IV with asphalt pavement	2013-2017	137,475	83,147	54,000	Government Budget	Completion
4304	52	Da Sar road, Lat commune (reach of 3 km)	Lac Duong	Lat	L=3 km asphalt pavement road	2015-2019	84,557	38,000	4,959	Government Budget	Under construction
4304	53	Pang Tien-Da Nghi road	Lac Duong	Lat	L=11 km	2008-2017	47,393	40,863	5,200	Government Budget	Completion
4304	54	Dang Gia road	Lac Duong	Lac Duong town	1.4 km	2015-2017	8,760	0	7,884	Government Budget	Under construction
4304	55	To Huu road	Lac Duong	Lac Duong town	L=0.24 km; Asphalt Urban Road	2018-2020	3,340	0	3,006	Government Budget	FS
4304	56	Nguyen Thien Thuat	Lac Duong	Lac Duong town	L=0.6 km; Asphalt Urban Road;	2017-2019	10,000	0	9,000	Government Budget	Under construction
4304	57	Loc Thang intersection	Bao Lam	Loc Thang town	Intersection, lighting, drainage	2019-2022	6,000	0	5,400	Government Budget	FS
4304	58	Intervillage rural road of Da Nhim commune	Lac Duong	Da Nhim	L=3.5 km; Rural Road;	2015-2017	6,000	0	5,400	Government Budget	Under construction
4304	59	Thong nhát road Lac Duong town	Lac Duong	Lac Duong town	L=573m; Asphalt Urban Road; Width: 6.0/9.5 (m); 2x1.75m sidewalk; Sewage system;	2015-2017	9,624	3,500	5,000	Government Budget	Under construction
4305	60	Tan Ha - Dan Phuong road	Lam Ha	Dan Phuong, Tan Ha	L=10.6 km; class IV; width: 6.5/7.5m; KCMD: asphalt pavement; drainage system;	2013-2017	69,236	42,000	5,000	Government Budget	Completion
4305	61	Tan Ha-Phu Tho road	Lam Ha	Phuc Tho, Hoai Duc	L=4.26 km; rural road class A; design speed: 30km/h; width: 3.5/6.0m; BPM pavement; side ditch and drainage	2017-2020	36,983	36,176	800	Government+Community Budget	Under construction
4305	62	Rural road from Tan Van commune, Lam Ha district passing Tan Thanh commune, Duc Trong district	Lam Ha	Tan Van (Lam Ha), Tan Thanh (Duc Trong)	L=8.8 km; Class: GTNTA; Design Speed: 30km/h; Width: 3.5/6.5m; Cement concrete Pavement; Spillway + side ditch	2017-2020	29,886	0	26,000	Government Budget	Under construction
4305	63	Inter-commune road Phuc Tho-Hoai Duc	Lam Ha	Phuc Tho, Hoai Duc	L=4.26 km; Class A rural road; Design Speed: 30km/h; Width: 3.5/6.0m; BPM Pavement; Spillway + side ditch	2017	20,000	0	16,000	Government + community Budget	FS
4305	64	Rural road Phu Son-Da Don	Lam Ha	Phu Son, Da Don	5.1 km class A - rural road; design speed: 30km/h; width: 3.5/6.0m; BPM Pavement; Spillway + side ditch, length of concrete bridge 20m	2017-2020	40,000	0	35,000	Government + community Budget	Under construction
4305	65	Doan Ket (Dinh Van)-Tan Lam (Da Don) road	Lam Ha	Dinh Van, Da Don	8.8 km class IV; width: 5.5, 6.5/7.5m; asphalt pavement; drainage system	2015-2020	49,996	0	10,000	Government + community Budget	Under construction
4305	66	Rural road from Tran Quoc Toan cross-road, Hoai Duc-Lien Ha communes	Lam Ha	Hoai Duc, Lien Ha	6.6 km class A-rural road; width: 3.5/6.0m; cement concrete pavement	2019-2021	25,000	0	5,000	Government Budget	FS
4306	67	Road at Thanh My town center	Don Duong	Thanh My town	10 km urban road with asphalt pavement	2008-2015	83,235	80,772		Government Budget	Completion
4306	68	Rehabilitation of road pavement 2/4 (national road 27), part crossing Thanh My town center	Don Duong	Thanh My town	L=3 km	2019-2020	19,270	0	17,343	Government Budget	Under construction
4306	69	Rural road from district 412 road to Ta Ly village & village road Taly2, Ka Do commune	Don Duong	Ka Do	2.5 km rural road	2017-2019	5,000	0	4,500	Government Budget	Pre-FS
4306	70	Rural road Suoi Thong, Da Ron commune	Don Duong	Da Ron	3.39 km rural road	2017-2020	10,000	0	9,000	Government Budget	Pre-FS
4306	71	Rural road at Ka Don commune	Don Duong	Ka Don	2.66 km rural road	2017-2020	9,600	0	8,640	Government Budget	Pre-FS

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4306	72	Rural road No 9, Quang Lap commune	Don Duong	Quang Lap	1.7 km rural road	2017-2020	5,000	0	4,500	Government Budget	Pre-FS
4306	73	Rehabilitation & improvement of district road 412, 413	Don Duong	D'Ran, Lac Xuân, Ka Đ	L=15km; Class: IV-Mountain Area; 3 bridges;	2018-2022	80,000	0	10,000	Government Budget	Pre-FS
4306	74	Rural road from Pro kinh te village	Don Duong	Pro	L=3 km	2014-2016	16,853	16,400		Government Budget	Completion
4306	75	Rural road to newly economic area, Chau Son	Don Duong	Chau Son	L= 1.9km, class IV - mountain area, BPM pavement	2018-2020	5,000	1,500	3,000	Government Budget	Under construction
4307	76	Road to Ninh Loan commune center	Duc Trong	Ninh Loan	L=4.38 km	2015-2017	35,000	33,400	1,400	Government Budget	Completion
4307	77	District Roads 2 (from Tan Phu, Tan Hoi villages to N'Thoi Ha commune running to Binh Thanh commune	Duc Trong	N'Thoi Ha, Binh Thanh	L=5.51 km;	2016-2018	36,000	16,000	16,000	Government Budget	Under construction
4307	78	Pavement, lighting system, green tree, at national road 20, from Nam Son reservoir to Trung village (Phu Hoi)	Duc Trong	Phu Hoi	Construct pavement, lighting system, green tree for 8km NH. 20	2017-2020	25,000	0	15,000	Government Budget	FS
4307	79	Green tree, pavement construction, lighting system, at national road 20, from Bong Lai bridge to Ba Cha temple, Hiep Thanh commune	Duc Trong	Hiep Thanh	Construct pavement, lighting system, green tree for 10km NH. 20	2017-2020	38,003	0	34,200	Government Budget	FS
4307	80	Main road of Lien Hiep commune, from Mieu Ong to highway Lien Khuong-Prem Lien Hiep commune	Duc Trong	Lien Hiep	L=3 km	2017-2020	14,944	0	9,000	Government Budget	FS
4307	81	Lien Khuong-Prem collector road	Duc Trong	Lien Hiep	18km collector road both side of Lien Khuong-Prem expressway	2019-2022	60,000	0	25,000	Government Budget	FS
4307	82	Road along Da Nhim river	Duc Trong	Phu Hoi	L=6 km Road and Sewage system	2017-2021	48,513	0	30,000	Government Budget	FS
4307	83	Improvement of Thong Nhat road	Duc Trong	Lien Nghia town	Repair existing Road, L=3.3km; New construction 4.4km asphalt Pavement road; Width: 5.5/7.5 (m);	2019-2022	30,000	0	10,000	Government Budget	FS
4307	84	Waste water system from headmarket to national road 20	Duc Trong	Lien Nghia town	L=1.289 km	2013-2014	12,849	11,665		Government Budget	Completion
4307	85	Pavement, lighting system, green tree, at national road 20, at Lien Nghia town.	Duc Trong	Lien Nghia town	Electricity line L=11.464m and 282 lamp post;	2015-2017	39,162	11,500		Government Budget	Completion
4308	86	Bridge & road over Da Le stream, Tam Bo commune	Di Linh	Tam Bo	Concrete bridge length 129 m	2013-2014	22,068	22,068		Government Budget	Completion
4308	87	Road to dump site, Hoa Bac commune	Di Linh	Hoa Bac	L=3 km;	2016-2018	12,000		6,600	Government Budget	Under construction
4308	88	Inter-commune road Tan Lam-Dinh Trang Hoa	Di Linh	Tan Lam, Dinh Trang Hoa	L=7.14 km; Class: IV-mountain area; Width: 3.5/7.5m; BPM Pavement;	2017-2020	27,500	0	24,750	Government Budget	FS
4308	89	Route from national road 28 linked to access road to logistics Sa Vo area	Di Linh	Gung Ré	L=0.7 km	2018	3,500	0	3,150	Government Budget	FS
4308	90	Rural road of village 11, Hoa bac commune	Di Linh	Hoa Bac	3.5 km rural road	2017-2020	9,822	0	8,840	Government Budget	FS
4308	91	Road from villages 6,7,8 Tan Lam to Village 15, Dinh Trung Hoa commune	Di Linh	Dinh Trung Hoa	10 km rural road	2011-2015	24,270	24,243		Government Budget	Completion
4308	92	Rural road 3 from at Loc Chau village, Tan Nghia commune	Di Linh	Tan Nghia	L=5.3 km (03 branches); Asphalt Pavement;	2017-2019	23,400	0	10,000	Government Budget	Under construction
4308	93	Sa Vo logistics	Di Linh	Gung Ré	Construct new reservoir (30 ha), management house & 9.6 km of road	2011-2016	70,944	70,325		Government Budget	Completion
4308	94	Lien Dam road to village 9, Hoa Trung	Di Linh	Hoa Trung	L=7 km	2013-2015	19,000	18,500		Government Budget	Completion
4309	95	Road from National road 20 to Loc Thanh commune center	Bao Lam	Loc Thanh	L=17.88 km; Class: V-mountain area; Width: 5.5/6.5m; Asphalt Pavement; 02 bridges, L=132m;	2015-2019	177,814	56,000	80,000	Government Budget	Under construction
4309	96	Loc Thang-Loc Phu-Loc Lam road	Bao Lam	Loc Thang - Loc Phu - Loc Lam	L=11 km	2010-2015	59,584	56,714		Government Budget	Completion
4309	97	Road for rescue and production: Nao Do - Nao Quang	Bao Lam	Loc Phu	L=23 km	2012-2017	98,277	71,600	15,000	Government Budget	Under construction
4309	98	Inter-village road (3,4,6,8,9) at Tan lac commune access road to Kobe cow project)	Bao Lam	Tan Lac	L=4 km	2015-2017	8,345	8,345		Government Budget	Completion
4309	99	Road from village 10 , Loc Nam commune to Loc Thanh commune	Bao Lam	Loc Nam, Loc Thanh	L=5.2 km	2017-2019	13,400	0	12,000	Government Budget	Under construction
4309	100	Road of Loc Thang town (phase 3)	Bao Lam	Loc Thang town	L=8.5 km; Urban Road;	2017-2020	40,000	0	36,000	Government Budget	FS
4309	101	Inter-commune road Loc Ngai-Loc Phu	Bao Lam	Loc Ngai, Loc Phu	L=7.8 km	2017-2020	27,000	0	15,000	Government Budget	FS
4309	102	Provincial road 725 Loc Bao-Da Teh	Bao Lam	Da Teh town	L=28 km; Asphalt concrete pavement; width = 5.5/7.5m; Class: IV - mountain area; Design speed: 40km/h;	2010-2014	464,639	464,228		Government Budget	Completion
4310	103	Road from village 4, Madnguoi to dump site	Da Huoai	Ma Da Goi	2.77km class V - mountain area, width : 5.5/6.5m, cement concrete pavement, thickness 20cm	2016-2018	8,000	2,800	4,300	Government Budget	Under construction
4310	104	Inter-village road Ma Da Guoi-Da Ton	Da Huoai	Ma Da Guoi, Da Ton	6.5km class IV - mountain area, width: 5.5m/7.5m, asphalt pavement	2018-2020	36,000	0	32,400	Government Budget	DD
4310	105	Repairing and upgrading PR.725, section Bao Loc - Loc Bac (Km132+420 - Km 134+920 and section Con O - Da Teh (Km167+20 - Km167+650) and	Da Teh, Bao Lam	Da Teh town	Total length 4.13km asphalt pavement	2018-2020	90,000	0	60,000	Government Budget	N/A

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
		connector road from PR.725 to Da Teh town									
4310	106	Road rehabilitation: Nguyen Du, Ma Da Guoi town	Da Huoai	Ma Da Guoi	Construction new curb, side walk; culverts, spillway system and lighting at section Km0 :- Km3+850;	2017-2019	12,000	0	10,000	Government Budget	Under construction
4310	107	Pavement improvement of drainage canal at national road 20, passing Da Mri town (Phase 3)	Da Huoai	Da Mri	L=1.5 km; Upgrading Sewwage canal and sidewalk	2018-2020	5,000	0	4,500	Government Budget	FS
4310	108	Improvement of inner road of Ma Da Guoi town	Da Huoai	Ma Da Guoi town	- Nguyen Thi Minh Khai street: length 0.67km; - Pham Ngoc Thach street: length 1.15km; - Dien Bien Phu street (3rd stage): length 2 km, sidewalk, drainage system and lingting; - Nguyen Khuyen street: length 0.162km; - Truong Dinh and Nguyen Tri Phuong street: length 0.2km; Cross-section: width 6.5m/11m, sidewalk: 2 x 2.25 m, asphalt pavement;	2018-2022	60,000	0	35,000	Government Budget	Pre-FS
4310	109	Road improvement Bsa-Doan Ket (PR. 721)	Da Huoai	Doan Ket	L=15 km & 3 bridges; Class: IV-Mountain Area;	2019-2022	50,000	0	20,000	Government Budget	Pre-FS
4310	110	Lighting system at Bao Loc pass	Da Huoai	Da Mri	Total length of underground conduct: 6.9km ngâm; New construction 232 lighting post (LED 127W-220V) and 4 transformer stations, capacity 1x15kVA;	2018-2020	13,241	0	10,000	Government Budget	Pre-FS
4311	111	Road from village 7 Da Tek town to An Nhon commune center	Da Teh	Da Tek town, An Nhon	L=3 km;	2013-2015	35,790	35,578		Government Budget	Completion
4311	112	Road 26/3 to Nam canal	Da Teh	Da Teh town	- Length 1.8km, asphalt pavement, with: 9/16.4m and other urban infrastructure (sidewalk, drainage, cross culverts, lighthing and traffic signs); - 2x1.2m earth irrigation canal on the right of road;	2017 - 2020	39,994	0	25,000	Government Budget	FS
4311	113	Road construction from 26/3 road to Provincial road 725, Da Teh town	Da Teh	Da Teh town	L=993,24m; Width: 9,0/16,9 (m); 2x3,0m Sidewalk; Urban Asphalt Pavement;	2017	26,400	0	20,000	Government Budget	FS
4311	114	Provincial road 721 to road 26/3, Da Teh town	Da Teh	Da Teh town	L=993m; Asphalt Urban Pavement; Width: 9,0/16,9m; and technical infrastructure system (lighting, pile culvert, ...)	2013-2017	49,874	45,047	3,900	Government Budget	Under construction
4311	115	Road from village 7 to An Nhon commune center (phase 2)	Da Teh	An Nhon	Tranportation project class III	2017	60,225	0	40,000	Government Budget	DD
4311	116	Access road 1.6 to the resettlement site of An Nhon commune	Da Teh	An Nhon	Urban road and other infrastructure;	2018-2020	8,606	2,500	5,200	Government Budget	FS
4311	117	Rural road from provincial road 721 to ethnic area in Northern Da teh	Da Teh		L=2.807km; Class: V-Mountain Area; Macadam Pavement; Width: 3,5/6,5 (m);	2018-2020	8,700	2,500	5,300	Government Budget	Under construction
4312	118	Phuoc Trung road, Phuoc Cat 2 commune	Cat Tien	Phuoc Cat 2	L=3.6km; Cement Concrete Pavement; width = 4,0/7,5m (stage I); Class: IV - mountain area; Design speed: 40km/h;	2015-2017	21,888		1,811	Government Budget	Completion
4312	119	Road plot No 2, Cat Tien, phase I	Cat Tien	Cat Tien town	L=4.57 km; Asphalt Urban Road; Side walk + sewage system;	2010-2017	71,080		2,000	Government Budget	Completion
4312	120	District Road 92 of Cat Tien district	Cat Tien	Tu Nghia, My Lam, Nam Ninh	L=19.6 km; Width=7.0m; Asphalt Concrete pavement; Class: IV - mountain area;	2014-2018	210,166	100,984	50,000	Government Budget	Under construction
4312	121	District road 91 road , Cat Tien district	Cat Tien	Cat Tien town, Gia Vien, Tien Hoang	L=8.93 km; width=7.5m; Asphalt Concrete pavement; Class: IV - mountain area;	2012-2018	158,303	122,192	30,000	Government Budget	Under construction
4312	122	Road pavement rehabilitation at Phuoc Cat 1 commune center	Cat Tien	Phuoc Cat 1	Construction new curb, side walk; culverts, spillway system and lighting at section Km0 :- Km3+850;	2018-2019	6,000	0	5,400	Government Budget	FS
4312	123	Inner road at Cat Tien town	Cat Tien	Cat Tien town	5 urban roads, total length 2.053m, asphalt pavement and related infrastructure;	2017-2020	30,000	0	27,000	Government Budget	FS
4312	124	Road to dump site	Cat Tien	Cat Tien town	Length of road 1.55km; width: 5,5/6.5m, cement concrete pavement	2017-2019	9,000	0	8,100	Government Budget	FS
4312	125	Ring road along Dong Nai river	Cat Tien	Dong Nai town	Length of road: 3.35km; width: 5,5/7.5m, class: IV-mountain area, assphalt concrete;	2018-2021	40,000	0	15,000	Government Budget	FS
43	126	Improvement of Ta Nung pass, bridges (upper Cam Ly Thac Voi, newly construction of road part in Tan Thanh (Lam Ha dis), Tan Lam (Di Linh dis) within provincial road 725	Lam Ha, Di Linh	Tan Thanh (Lam Ha), Tan Lam (Di Linh)	Class: IV-mountain area; Width: 5,5/7.5 (m); Asphalt Pavement; L=30.7 km (2 sections: Section 1: Upgrading TaNung pass, L=7,2km; Section 2: New construction PR. 725 from Tan Thanh to Tan Lam); Rehabilitation 2 bridges (Thac Voi and Cam Ly Thuong) & Box culvert at Km 31;	2015-2019	943,333	0	10,000	Government Budget	Completion
	II	Irrigation									
4301	1	Reservoir in Phat Chi-Tram Hanh	Da Lat	Tram Hanh	Service area 130 ha	2015-2018	41,108	38,750	2,000	Government Budget	Completion
4301	2	Dredging Bao Dai waterfall , Tuyen Lam reservoir	Da Lat	Ward No.4	Dredging Tuyen Lam lake	2017-2018	1,300	0	1,170	Government Budget	Pre-FS
4302	3	Blaio Sire reservoir	Bao Loc	B'laio Sirê	Service area 800 ha	2019-2022	105,000	0	40,000	Government Budget	Pre-FS
4303	4	Irrigation Dong Crong 1, Da Tong commune	Dam Rong	Da Tong	Service area 80 ha	2019-2022	20,000	0	16,000	Government Budget	Pre-FS
4303	5	Da Chao reservoir (counter budget: 30a)	Dam Rong	Da R'sal	Service area 230 ha	2009-2017	84011	65118	10500	Government Budget	Under construction
4303	6	Irrigation Reservoir: of Dap Bang Lang, Ro Neo commune	Dam Rong	Ro Neo	Service area 300 ha	2016-2018	39,219	0	23,000	Government Budget	Under construction
4304	7	Reservoir for sedimentation control, waste water treatment	Lac Duong	Lac Duong town	Service area 10 ha	2018-2022	80,000	0	15,000	Government Budget	Pre-FS

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
		plant Dan Kia-Suoi Vang (phase 1)									
4304	8	Box culvert at Nhon Hoa village, Lat commune	Lac Duong	Lat	Concrete box culvert 3x(4.5mx3m), 564m macadam road and 264m spillway, class IV-mountain area, width 5.0/6.0m, side ditch and traffic signs;	2017-2018	3,985	0	470	ODA	Under construction
4306	9	Sao Mai reservoir	Don Duong	Ka Don	Service area 160 ha	2014-2018	61,796	26,501	29,000	Government Budget	Under construction
4306	10	Rehabilitation and improvement of drainage canal at Lac Lim commune	Don Duong	Lac Lim	Leng of canal 2.36 km	2017-2020	8,178	0	7,360	Government Budget	Pending
4307	11	Chu Rum reservoir, Ta nang commune	Duc Trong	Ta Nang	Service area 130 ha	2018-2020	8,300	0	7,470	Government Budget	FS
4307	12	Reparation Ma Poh reservoir, Da Quyn commune	Duc Trong	Da Quyn	Design capacity 1.220.000m ³ , 252m earth dam;	2018-2020	4,000	0	3,600	Government Budget	FS
4307	13	Ma Am dam, Da Loan commune	Duc Trong	Da Loan	Service area: Paddy 52 ha and other crops 150 ha	2018-2022	31,750	0	10,000	Government Budget	Pre-FS
4307	14	K'Nai reservoir	Duc Trong	K'Nai	Service area 76.2 ha	2017-2021	140,118	0	40,000	Government Budget	FS
4307	15	Pumping station in Phu Ao, To Hne commune	Duc Trong	To Hne	Service area 130 ha	2014-2016	14,241	13,918		Government Budget	Completion
4308	16	Bridge & the influent conduit via Da Le stream, Tam Bo commune	Di Linh	Tam Bo	Total length of bridge and road 129 m	2014-2016	1,571	1,870		Government Budget	Completion
4308	17	Weir Dak Rsal	Di Linh	Son Dien	Service area 100 ha	2017-2019	26,000	0	23,400	Government Budget	Under construction
4308	18	Reservoir: Lien Hoan 1, Gia Hiep commune	Di Linh	Gia Hiep	Earth dam 250 m	2017-2020	5,000	0	4,500	Government Budget	FS
4308	19	Reservoir at village 9, Hoa Trung commune	Di Linh	Hoa Trung	Service area 170 ha	2017-2020	40,000	0	20,000	Government Budget	FS
4309	20	Reservoir at village 4, Loc Bac commune	Bao Lam	Loc Bac	Service area 130 ha	2014-2016	18,975	10,386		Government Budget	Completion
4309	21	Rehabilitation & improvement of Loc Thang reservoir	Bao Lam	Loc Thang	Service area 700 ha industrial plant; Cement concrete dam	2016-2017	19,300	0	15,000	Government Budget	FS
4309	22	Reservoir in Tan Rai,	Bao Lam	Tan Rai	Service area 500ha, repair and rehabilitation earth dam	2017-2020	10,000	3,500	5,500	Government Budget	Under construction
4309	23	Rehabilitation & improvement Ma Da Guoi weir	Da Huoai	Ma Da Guoi	Repairing existing spillway, length 25m, with 7.5m by cement concrete; constructing asphalt connector road, L= 364m, width: 5.5/7.5 m;	2017-2020	26,000	0	23,000	Government Budget	DD
4310	24	Reparation of pumping station at Da Goail	Da Huoai	Da Goail	Service area 200 ha	2017-2018	7,000	0	6,300	Government Budget	Under construction
4310	25	Reservoir in Da Dak	Da Huoai	Da Oai	Service area 151 ha	2012-2016	58,984	52,960		Government Budget	Completion
4310	26	Permanent construction of secondary canal to An Nhon commune	Da Teh	An Nhon	Replacement earth canal by concrete canal	2017-2019	7,000	0	6,300	Government Budget	FS
4311	27	Stone embankment for erosion control at village 3, Da Kho commune	Da Teh	Da Kho	Construct embankment of river by gabion, L= 123m, height: 7.0m ~ 9.0m	2018-2019	7,900	0	7,110	Government Budget	FS
4311	28	Stone embankment for landslide control from village 5B to vilage 4A, Da Ham reservoir, An Nhon commune	Da Teh	An Nhon	Construct embankment of river by gabion, height: 7.0m ~ 9.0m	2018-2019	6,000	0	5,400	Government Budget	FS
4311	29	Construction on-farm canal combining with road at Bao Co (Phase 2)	Da Teh	Bao Co	New construction concrete canal and rural roads	2018-2018	14,500	0	10,000	Government Budget	FS
4311	30	Invest the approach canal from Nam canal, Da Teh irrigation work to Village 1, 2, 6 An Nhon commune	Da Teh	An Nhon	Service area 200 ha	2019-2021	20,000	0	10,000	Government Budget	Pre-FS
4311	31	Canal construction linked with on-farm road at village 4, 6	Da Teh	Da Teh town	Total length of new concrete canal 5740 m	2014-2016	13,755	13,500		Government Budget	Completion
4311	32	Permanent construction of N3, N5, DN9, DN10, DN12, DN14, NN4, NN5, NN7 canals of Da Teh reservoir	Da Teh	Huong Son	Replacement 09 earth canals by concrete canal	2019-2022	48,824	0	15,000	Government Budget	Pre-FS
4311	33	Reservoir Huong Thanh-Huong Son	Da Teh	Huong Son	Service area 150 ha	2013-2017	46,932	0	2,837	Government Budget	Under construction
4311	34	Tu Nghia reservoir	Cat Tien	Tu Nghia	Service area 200 ha	2010-2017	98,049	84,516	13,500	Government Budget	FS
4312	35	Reparation of Phu My pumping station	Cat Tien	Phu My	Service area 100ha paddy, design capacity 1275m ³ /h, transformer station and related items;	2016-2018	4,068	0	1,100	Government Budget	Under construction
4312	36	Quang Ngai Pumping station	Cat Tien	Quang Ngai	Repair 02 existing canal: N3 L=795m and N1-1-4 L=374,8m, installation new pumping machine	2018-2020	5,000	1,500	3,000	Government Budget	Under construction
4312	37	Duc Pho pumping station	Cat Tien	Duc Pho	Service area 140ha, design capacity 1,500m ³ /h and repair 1194m canal;	2018-2020	5,000	1,500	3,000	Government Budget	Under construction
4312	38	Sub-Project for reparation & improvement of 9 reservoir & dam (WB8)	districts		Upgrading and rehabilitation 10 reservoirs	2017-2020	239,625	0	11,000	ODA (WB)	Under construction
	III	Water Supply									
4301	1	Improvement & expansion of water supply system in Da Lat city	Da lat		- Upgrading and widening Suoi Vang water plant to 48,000m ³ /day and distributed network; - New construction Tuyen Lam water playst, design capacity 10,000m ³ /day and distributed network pile line;	2014-2018	382,733	41,932	22,000	Government Budget	- FS; - Under construction
4310	2	Madagui town domestic water supply	Da Huoai	Madagui town	- Capacity 2,000 m ³ /day; - Beneficiaries: 9600 people;	2016-2020	5,000	0	4,500	Government Budget	FS

Code	No.	Name of projects	Location		Project feature	Period	Total project cost (VND mil.)	Expenditure (VND mil.)	Necessary Budget for 2016-2020 (VND mil.)	Source of Fund	Status (Pre-FS, FS, DD, ect)
			District	Commune							
4310	3	Da Mri Domestic water supply and Irrigation	Da Huoi		- Stage 1: Service area 32 ha crops and provide domestic water for 20 households - Stage 2: Irrigate to 100 ha and provide domestic water for 250 households; Main Dam: H=2,5m (cement concrete); Main pile (L=3732m; Q=35,5l/sec); Sedimentation basin: 800m ³ ; 03 clean water tanks: 30m ³ ;	2016	5,400	5400	0	Government Budget	Under construction
4312	4	Water plant Cat Tien	Cat Tien		Design capacity 2700 m ³ /day, water source: 4 wells, total length of distributed pipe line network: 15.040m;	2013-2017	47,561	40,912		Government Budget	Under construction
43	5	Extended program for sanitation size and rural drinking water based on results (WB7)	Districts		Project area 123 commune, number of beneficiaries 12.500 households; new construction 2.400 toilets; upgrading 85 WC structures in local schools; Reparation 10 rural water supply;	2017-2020	207,236	0	16,286	WB	Under construction

Note: N/A: Not Available; F/S: Feasibility Study; DD: Detail Design

Source: Mid-term Development Plans of Central Highlands

AP 3.7.2 List of ODA Projects in Central Highlands (2006-2016)

Kon Tum province

(Unit: VND million)

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
1	Inter-commune road and bridge in Dak Ang commune	L=14.2km, rural road (Grade IV, asphalt concrete)	JICA	Completed (100%)	47,437	8,886	38,551	47,437	8,886	38,551	2007-2011
2	Ngoc Tem - Ro Manh rural road	L=9.1km, rural road (Class A), cement concrete	JICA	Completed (100%)	54,482	20,513	33,969	54,482	20,513	33,969	2010-2012
3	Electric network in Dak Ha commune, Tu Mo Rong district	22kV=0.5km, 0.4kV=2.8km, Beneficiaries 200 households	JICA	Completed (100%)	8,409	1,541	6,868	8,409	1,541	6,868	2007-2011
4	Upgrading and expanding the medium and low voltage grid of Dak Ruong and Tan Lap communes	22kV=11.7km, 0.4kV=18.3km, Beneficiaries 900 households	JICA	Completed (100%)	23,254	10,248	13,006	23,254	10,248	13,006	2010-2013
5	Water supply system of Bo Y border gate economic zone	Design capacity 2,000 m3/day, Beneficiary 9,000 persons	JICA	Completed (100%)	60,236	29,516	30,720	60,236	29,516	30,720	2007-2011
6	Water supply of Dak Ha town	Design capacity 4,200 m3/day, Beneficiary 22,250 persons	JICA	Completed (100%)	41,111	16,111	25,000	41,111	16,111	25,000	2007-2011
7	Water supply of Kon Ray town	Design capacity 4,000 m3/day, Beneficiary 20,000 persons	JICA	Completed (100%)	30,540	6,540	24,000	30,540	6,540	24,000	2013-2015
8	Rehabilitation the Dak Sa Men reservoir	Service area 90ha, Beneficiaries 876 households	JICA	Completed (100%)	25,323	7,792	17,531	25,323	7,792	17,531	2010-2013
9	Integrated Rural Development Sector Project in the Central Provinces - Kon Tum	N/A	ADB	Completed (100%)	233,730	32,550	201,180	233,730	32,550	201,180	2008-2014
10	Forests for Livelihood Improvement in The Central Highlands (FLITCH)	(1) Sustainable forest resource development and management; (2) Livelihood improvement; (3) Capacity Building; (4) Project Management	ADB	Completed (100%)	233,440	87,200	146,240	233,440	87,200	146,240	2007-2014
11	Productive Rural Infrastructure Sector Project in the Central Highlands	N/A	ADB	On-going (2%)	273,000	18,354	254,646	6,300	4,800	1,500	2014-2018
12	Central Highlands Poverty Reduction Project - Kon Tum	N/A	WB	On-going (7%)	631,366	63,137	568,229	45,753	2,850	42,903	2014-2019

Gia Lai Province

(Unit: VND million)

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
1	Road from Chu A Thai to Ia Yeng and Ia Pa	L=23.293km, Grade V (mountainous)	JICA	Completed (100%)	46,138	7,697	38,441	46,138	7,697	38,441	2008-2010
2	Road from K'bang town to Kroong commune	L=23.3km, Grade V (mountainous)	JICA	Completed (100%)	55,300			55,300			2009-2012
3	Bridge through Ba river	L=1,360m, bridge length 318m, Grade III	JICA	Completed (100%)	49,700			49,700			2009-2012
4	Inter commune road Nam Yang-Kon Gang	L=16.8km, Grade V (mountainous)	JICA	Completed (100%)	20,290	7,290	13,000	20,900			2010-2011
5	Inter commune road on the East side of Ben Mong bridge	L=17.6km, Grade V (mountainous)	JICA	Completed (100%)	29,988	14,988	15,000	29,998			2010-2011
6	Water supply of Ia Kha town	Design capacity 1,200 m3/day, Beneficiary 7,500 persons	JICA	Completed (100%)	8,033	4,328	3,750	8,033	4,328	3,750	2006-2010

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
7	Water supply for Krong Pa town	Design capacity 2,000 m ³ /day, Beneficiary 19,600 persons	JICA	Completed (100%)	45,069			45,069			2009-2012
8	EaUr irrigation, Chu Drang commune	Service area 95ha, Beneficiaries 151 households	JICA	Completed (100%)	11,996			11,996			2009-2011
9	Develop underground water for rural water supply in some Central Highlands provinces	N/A	JICA	Completed (100%)	14,480			14,480			2008-2010
10	Expand the Electricity grid of Ia Me commune	22kV=9.4km, 0.4kV=10.7km, Beneficiaries 800 households	JICA	Completed (100%)	6,697			6,697			2006-2009
11	Expand electricity grid of border communes	22kV=20.4km, 0.4kV=55.0km, Beneficiaries 7,500 households	JICA	Completed (100%)	30,200			30,200			2009-2012
12	Capacity development of participatory agricultural and rural development for poverty reduction in the Central Highlands in Viet Nam	N/A	JICA	Completed (100%)	2,300			2,300			2009-2013
13	Village road of Klu 2	N/A	Embassy of Japan	Completed (100%)	2,012			2,012			2009-2010
14	Project on rural water supply and sanitation in 2008	N/A	UNICEF	Completed (100%)	6,000			6,000			2008
15	Project on embankment of west bank of Ayun river	N/A	South Korea	Completed (100%)	412,009			412,009			2015-2018
16	Dam Rehabilitation and Safety Improvement Project	N/A	WB	Under preparation	127,631	6,528	121,103	0	0	0	2016-2022
17	Program for Results-based Rural Water Supply and Sanitation	N/A	WB	Under preparation	220,126	31,948	188,178	0	0	0	2016-2020
18	Central Highlands Poverty Reduction Project - Gia Lai	N/A	WB	On-going (7%)	600,734	30,531	570,204	39,376	14,457	24,919	2014-2018
19	Agricultural Competitiveness Project	N/A	WB	Completed (100%)	127,725			127,725			2009-2013
20	Vietnam Sustainable Agriculture Transformation Project - Gia Lai province	N/A	WB	Under preparation	174,086	65,575	108,511	0	0	0	2016-2020
21	Pilot project on poverty reduction of Ia Pa district	N/A	IFAD	Completed (100%)	31,950			31,950			2008-2011
22	Tam Nong Support Project in Gia Lai province	N/A	IFAD	On-going (65%)	287,100	60,600	226,500	186,332	29,383	156,949	2011-2017
23	Pilot program on community forestry	N/A	ADB	Completed (100%)	93,300			93,300			2006-2008
24	Productive Rural Infrastructure Sector Project in the Central Highlands	N/A	ADB	On-going (5%)	273,000	31,080	254,646	13,533	10,333	3,200	2015-2018
25	Forests for Livelihood Improvement in The Central Highlands (FLITCH)	(1) Sustainable forest resource development and management; (2) Livelihood improvement; (3) Capacity Building; (4) Project Management	ADB&TFF	On-going (74%)	244,960	49,120	195,840	180,426	46,208	134,218	2007-2014

Dak Lak Province

(Unit: VND million)

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
1	Inter communes road Ea Wy - Cu Mot - Ea Khal	L=17.5km, Grade V (mountainous)	JICA	Completed (100%)	21,700	11,966	9,734	21,700	11,966	9,734	2008-2009
2	Inter communes road Buon Ho - Ea Blang - Ea Sien	L=19.9km, Grade V (mountainous)	JICA	Completed (100%)	51,892	25,350	26,542	51,892	25,350	26,542	2010-2011
3	Inter districts road Ea H'leo - Cu M'gar	L=16.4km, Grade V (mountainous), BMP	JICA	Completed (100%)	46,034	27,338	18,696	46,034	27,338	18,696	2010-2011
4	Inter communes road Dlieyang - Ea Hiao	L=10.0km, Grade V (mountainous)	JICA	Completed (100%)	23,045	16,000	7,045	23,045	16,000	7,045	2010-2011
5	Inter villages road Ea Khal - Ea Nam - Ea Wy	L=17.5km, Grade V (mountainous)	JICA	Completed (100%)	12,301	9,841	2,460	12,301	9,841	2,460	
6	Road from Krong Nang to Phu Xuan and Ea Toh communes	L=3.4km, Grade V (mountainous)	JICA	Completed (100%)	11,168	8,935	2,234	11,168	8,935	2,234	
7	Road from Cu Mot commune to Sinh Thong village, Ea Khal commune	L=5.15km, Grade VI (flat)	JICA	Completed (100%)	16,607	8,000	8,607	16,607	8,000	8,607	
8	Inter districts road Ea H'leo - Krong Nang	L=10.3km, Grade V (mountainous), BMP	JICA	Completed (100%)	39,904	30,000	9,904	39,904	30,000	9,904	2013-2014
9	Ho Ke irrigation system, Hoa Le commune	Service area 160ha, Beneficiary 500 households	JICA	Completed (100%)	24,059	7,950	16,109	24,059	7,950	16,109	2009-2011
10	Concreted irrigation system of Krong Kmar commune	Canal length 13.8km, Service area 540ha, Beneficiary 1,000 households	JICA	Completed (100%)	31,463	19,615	11,848	31,463	19,615	11,848	2010-2011
11	Medium and low voltage grid of Wing village, Ea Knueh commune	22kV=16.6km, 0.4kV=16.6km, Beneficiary 790 households	JICA	Completed (100%)	11,297	5,309	5,988	11,297	5,309	5,988	2008-2009
12	Medium and low voltage grid of M'Drak town, Krong Jin and Cu M'gar communes	35kV=0.8km, 0.4kV=22.6km, Beneficiary 2,200 households	JICA	Completed (100%)	14,242	8,401	5,841	14,242	8,401	5,841	2010-2011
13	Agricultural Competitiveness Project	N/A	WB	Completed (100%)	136,112	110,520	25,592	136,112	110,520	25,592	2008-2013
14	Productive Rural Infrastructure Sector Project in the Central Highlands	N/A	WB	Under preparation	319,408	255,395	64,013				2014-2018
15	Water supply to Buon Ma Thuot city and 3 towns of Krong Nang, Ea Kar, and Buon Don district - Water Sector Investment Program	N/A	ADB	Completed (100%)	640,658	511,620	129,039	640,658	511,620	129,039	
16	Water supply for Cu Kuin district - Water Sector Investment Program	N/A	ADB	Completed (100%)	520,188	437,101	83,087	520,188	437,101	83,087	
17	Secondary Cities Development Project - subproject Buon Ma Thuot city	N/A	ADB	Under preparation	862,181	658,528	203,653				2014-2017
18	Central Highlands Poverty Reduction Project	N/A	ADB	Under preparation	659,613	599,648	59,965				2014-2018
19	Central Region Transport Networks Improvement Sector Project	N/A	ADB, NDF	Completed (100%)	108,864	95,494	13,369	108,864	95,494	13,369	2003-2012
20	Forests for Livelihood Improvement in The Central Highlands (FLITCH)	(1) Sustainable forest resource development and management; (2) Livelihood improvement; (3) Capacity Building; (4) Project Management	ADB, TFF	Completed (100%)	206,336	154,752	51,584	206,336	154,752	51,584	2007-2014
21	Agriculture and Rural Development Sector Program Support (ARD SPS)	N/A	Danida	Completed (100%)	88,300	84,800	3,500	88,300	84,800	3,500	2007-2012
22	Fisheries Sector Support Program Stage II - FSPS II	N/A	Danida	Completed (100%)	28,361	25,783	2,578	28,361	25,783	2,578	2006-2012
23	Expansion drainage system in Buon Ma Thuot City	N/A	Danida	Completed (100%)	366,720	287,376	79,344	366,720	287,376	79,344	2009-2015
24	Sewerage and Sanitation Project in Buon Ma Thuot City	N/A	Danida	Completed (100%)	271,274	202,400	68,874	271,274	202,400	68,874	2000-2009
25	Technical Assistance Project on Coffee trading center in Buon Ma Thuot	N/A	AFD	Completed (100%)	53,936	20,064	33,872	53,936	20,064	33,872	2008-2011

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
26	Project on Biogas for livestock sector in Vietnam	N/A	The Netherlands	Completed (100%)	871	591	280	871	591	280	2010
27	Project on Integrated water resources to preserve biodiversity in Chu Yang Sin National Park	N/A	GEF, Birdlife, WWF, the Netherlands	Completed (100%)	38,880	28,304	10,576	38,880	28,304	10,576	2005-2010
28	Rural Development Project in Dak Lak	N/A	GTZ	Completed (100%)	62,073	51,728	10,346	62,073	51,728	10,346	2003-2009
29	Trade and Sustainable Forest Management	N/A	GTZ	Completed (100%)	20,544	19,200	1,344	20,544	19,200	1,344	2009-2011
30	Project on irrigation of Dak Lak province	N/A	KF	Completed (100%)	370,476	210,798	159,678	370,476	210,798	159,678	2006-2010
31	Irrigation Project in Dak Lak province	N/A	Kuwait	Completed (100%)	430,243	261,870	168,373	430,243	261,870	168,373	2006-2011
32	Water supply project in Buon Ho town	N/A	KOICA	Completed (100%)	111,229	75,173	36,056	111,229	75,173	36,056	2011-2013

Dak Nong Province

(Unit: VND million)

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
1	Quang Khe-Dak R'mang road	L=13.4km, Grade IV (mountainous), BMP	JICA	Completed (100%)	34,515	14,653	19,862	34,515	14,653	19,862	2008-2010
2	Rehabilitation Province Road No. 3	L=7.1km, Grade IV (mountainous), BMP	JICA	Completed (100%)	26,034	8,034	18,000	26,034	8,034	18,000	2008-2010
3	Road from Dak Mam to Military Station No. 7 - Provincial Road No. 3 (Subproject No. 1)	L=15.2km, Grade IV (mountainous), BMP	JICA	Completed (100%)	62,953	23,024	39,929	62,953	23,024	39,929	2010-2014
4	Road from Dak Mam to Military Station No. 7 - Provincial Road No. 3 (Subproject No. 2)	L=3.9km, Grade IV (flat), BMP	JICA	Completed (100%)	30,675	12,675	18,000	30,675	12,675	18,000	2010-2014
5	Inter communes road Quang Khe - Dak Ha	L=27.4km, Grade VI (mountainous), BMP	JICA	Completed (100%)	133,086	76,054	57,032	133,086	76,054	57,032	2010-2016
6	Electricity supply in Quang Khe commune	22kV=10.9km, 0.4kV=18.3km. Beneficiary 1,500 households	JICA	Completed (100%)	20,638	7,257	13,381	20,638	7,257	13,381	2010-2012
7	Urban water supply development project, Dak Nong subproject	N/A	WB	On-going (29%)	166,942	93,133	73,809	49,018	6,553	42,465	2010-2012
8	Central Highlands Poverty Reduction Project - Dak Nong province	N/A	WB	On-going (19%)	415,800	37,800	378,000	80,005	5	80,000	2014-2019
9	Small and Medium Cities Development Project - Dak Nong subproject	N/A	ADB	On-going (53%)	543,059	313,197	229,862	286,341	62,230	224,111	2011-2014
10	Productive Rural Infrastructure Sector Project in the Central Highlands	N/A	ADB	Under preparation	269,523	42,444	227,079	12	7	5	2016-2020
11	Forests for Livelihood Improvement in The Central Highlands (FLITCH)	(1) Sustainable forest resource development and management; (2) Livelihood improvement; (3) Capacity Building; (4) Project Management	ADB	On-going (82%)	171,520	56,960	114,560	140,470	25,000	115,470	2007-2014
12	Sustainable Economic Strengthening Project for Ethnic Minorities in Dak Nong Province	N/A	IFAD	On-going (64%)	476,000	76,200	399,800	306,479	19	306,460	2014-2016

Lam Dong Province

(Unit: VND million)

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
1	Construction of Tan Van - Phuc Tho roads, Lam Ha District	L=12km, Grade V (mountainous), asphalt concrete	JBIC	Completed (100%)	16,470	5,470	11,000	16,470	5,470	11,000	2007-2008

No	Project's name	Project features	Donor	Status	Project cost			Disbursement			Execution time
					Total	Counterpart	ODA	Total	Counterpart	ODA	
2	Project of communication route in the center of Phi Lieng Commune, Dam Rong District	L=4.3km, Grade V (mountainous), asphalt concrete	JICA	Completed (100%)	29,850	9,850	20,000	29,850	9,850	20,000	2010-2013
3	Project of road between Da Rsal and Da M'Rong villages, Dam Rong District	L=10km, Grade V (mountainous), asphalt concrete	JICA	Completed (100%)	53,682	21,623	32,059	53,682	21,623	32,059	2010-2013
4	Provincial Highway 722 into the center of Da Tong commune, Dam Rong District	L=6.2km, Grade IV (mountainous), asphalt concrete	JICA	Completed (100%)	27,287	4,330	22,957	27,287	4,330	22,957	2013-2014
5	Road between Ro Men and Da R'sal communes, Dam Rong District	L=7km, Grade V (mountainous), asphalt concrete	JICA	Completed (100%)	36,259	17,259	19,000	36,259	17,259	19,000	2014-2015
6	Construction of 22kv line in Trieu Hai, Quang Tri and Da Kho Communes, Da Teh District	N/A	JBIC	Completed (100%)	1,380	680	700	1,380	680	700	2006-2007
7	Construction of rural power system in Da K'Nang Village, Da Don commune	22kV=2.44km, 0.4kV=2.75km, Beneficiary 200 households	JBIC	Completed (100%)	970	346	624	970	346	624	2006-2007
8	Water supply system in Loc Thang Town, Bao Lam District	Design capacity 2,600 m3/day, Beneficiary 2,600 persons	JBIC	Completed (100%)	17,031	3,931	13,100	17,031	3,931	13,100	2007-2008
9	Bokabang water reservoir project, Don Duong District	Service area 145ha, Beneficiary 214 households	JBIC	Completed (100%)	21,844	16,544	5,300	21,844	16,544	5,300	2008-2012
10	Project of Tu Nghia water reservoir, Cat Tien District	Service area 221ha, Beneficiary 230 households	JICA	Completed (100%)	31,756	18,114	13,642	31,756	18,114	13,642	2010-2014
11	Projects of improving the quality and safety of agricultural products and developing biogas program	N/A	ADB	On-going (18%)	116,449	15,905	100,544	20,895	3,788	17,107	2009-2015
12	Project of development of rural infrastructure for production in Central Highlands	N/A	ADB	Under preparation	273,000	18,354	254,646	0	0	0	2014-2017
13	The project to upgrade and expand the water supply system of Bao Loc City and the surroundings (which is in the stage of signing the loan agreement)	N/A	ADB	Under preparation	380,938	98,379	282,559	0	0	0	2014-2017
14	Project of Infrastructure based on community in Lam Dong Province	N/A	WB	Completed (100%)	81,936	20,500	61,436	81,936	20,500	61,436	2001-2007
15	Agricultural Competitiveness Project	N/A	WB	Completed (100%)	155,152	38,000	117,152	155,152	38,000	117,152	2009-2013
16	Sub-project of Water Supply in Lam Dong	N/A	WB	On-going (78%)	174,270	36,310	137,960	135,277	18,088	117,189	2009-2013
17	Project of construction to upgrade and expand the water supply system of the city of Da Lat in stage 3	N/A	WB	Under preparation	382,734	108,311	274,423	4,400	4,400	0	2011-2016
18	Project of construction of drainage, collection and wastewater treatment in Dalat City in Phase 2	N/A	WB	Under preparation	384,374	43,553	340,821	3,331	3,331	0	2011-2016
19	Project to improve sanitation in Da Lat	N/A	Denmark	Completed (100%)	375,000	118,000	257,000	373,500	116,500	257,000	1998-2013

Source: DPIs of Central Highland Provinces

AP 4.1.1 Industrial Water Demand in Central Highlands in 2015

District Code	District	Province	Industrial Output Value (Mil. VND)	Industrial water Demand per Production Value at 1.0 million (m ³ /VND Mil.)	Industrial Water Demand by District (m ³)			Water Demand for Industries by Province (m ³ /year)
					Total	Ground water	Surface water	
3902	Dak Glei	Kon Tum	414,313	1.13	467,121	93,424	373,697	5,307,479
3907	Dak Ha	Kon Tum	649,289	1.13	732,048	146,410	585,638	
3904	Dak To	Kon Tum	413,050	1.13	465,698	93,140	372,558	
3910	Ia H'Drai	Kon Tum	65,029	1.13	73,317	14,663	58,654	
3905	Kon Plong	Kon Tum	231,900	1.13	261,459	52,292	209,167	
3906	Kon Ray	Kon Tum	235,299	1.13	265,290	53,058	212,232	
3901	Kon Tum	Kon Tum	1,528,864	1.13	1,723,735	344,747	1,378,988	
3903	Ngoc Hoi	Kon Tum	482,654	1.13	544,174	108,835	435,339	
3908	Sa Thay	Kon Tum	451,118	1.13	508,618	101,724	406,894	
3909	Tu Mo Rong	Kon Tum	235,944	1.13	266,018	53,204	212,815	
4002	An Khe	Gia Lai	967,102	0.88	855,651	171,130	684,520	18,002,440
4003	Ayun Pa	Gia Lai	545,711	0.88	482,822	96,564	386,258	
4006	Chu Pah	Gia Lai	1,045,003	0.88	924,574	184,915	739,659	
4011	Chu Prong	Gia Lai	1,568,596	0.88	1,387,827	277,565	1,110,261	
4017	Chu PuH	Gia Lai	1,019,914	0.88	902,377	180,475	721,901	
4012	Chu Se	Gia Lai	1,677,992	0.88	1,484,615	296,923	1,187,692	
4005	Dak Doa	Gia Lai	1,578,003	0.88	1,396,149	279,230	1,116,919	
4013	Dak Po	Gia Lai	606,969	0.88	537,020	107,404	429,616	
4010	Duc Co	Gia Lai	999,791	0.88	884,572	176,914	707,658	
4007	Ia Grai	Gia Lai	1,387,488	0.88	1,227,590	245,518	982,072	
4014	Ia Pa	Gia Lai	788,790	0.88	697,888	139,578	558,310	
4004	KBang	Gia Lai	954,318	0.88	844,339	168,868	675,472	
4009	Kong Chro	Gia Lai	696,897	0.88	616,584	123,317	493,267	
4015	Krong Pa	Gia Lai	1,159,626	0.88	1,025,987	205,197	820,790	
4008	Mang Yang	Gia Lai	914,013	0.88	808,680	161,736	646,944	
4016	Phu Thien	Gia Lai	1,121,025	0.88	991,835	198,367	793,468	
4001	Pleiku	Gia Lai	3,316,087	0.88	2,933,931	586,786	2,347,145	
4106	Buon Don	Dak Lak	630,587	0.79	498,576	99,715	398,861	14,482,401
4115	Buon Ho	Dak Lak	1,014,081	0.79	801,787	160,357	641,430	
4101	Buon Ma Thuot	Dak Lak	3,514,532	0.79	2,778,777	555,755	2,223,022	
4114	Cu Kuin	Dak Lak	1,026,097	0.79	811,287	162,257	649,030	
4107	Cu M'gar	Dak Lak	1,709,707	0.79	1,351,786	270,357	1,081,429	
4102	Ea H'leo	Dak Lak	1,268,239	0.79	1,002,738	200,548	802,190	
4108	Ea Kar	Dak Lak	1,491,043	0.79	1,178,899	235,780	943,119	
4103	Ea Sup	Dak Lak	637,978	0.79	504,420	100,884	403,536	
4112	Krong Ana	Dak Lak	851,049	0.79	672,885	134,577	538,308	
4111	Krong Bong	Dak Lak	934,378	0.79	738,770	147,754	591,016	
4105	Krong Buk	Dak Lak	619,046	0.79	489,451	97,890	391,560	
4104	Krong Nang	Dak Lak	1,230,986	0.79	973,284	194,657	778,627	
4110	Krong Pak	Dak Lak	2,047,668	0.79	1,618,996	323,799	1,295,197	
4113	Lak	Dak Lak	638,769	0.79	505,045	101,009	404,036	
4109	M'Drak	Dak Lak	702,839	0.79	555,702	111,140	444,562	
4203	Cu Jut	Dak Nong	935,715	0.76	707,237	141,447	565,790	4,158,084
4202	Dak Glong	Dak Nong	504,225	0.76	381,106	76,221	304,885	
4204	Dak Mil	Dak Nong	952,994	0.76	720,297	144,059	576,238	
4207	Dak R'Lap	Dak Nong	794,551	0.76	600,542	120,108	480,434	
4206	Dak Song	Dak Nong	650,222	0.76	491,454	98,291	393,163	
4201	Gia Nghia	Dak Nong	536,136	0.76	405,225	81,045	324,180	
4205	Krong No	Dak Nong	684,073	0.76	517,040	103,408	413,632	
4208	Tuy Duc	Dak Nong	443,465	0.76	335,182	67,036	268,146	
4309	Bao Lam	Lam Dong	4,788,610	0.78	3,757,634	751,527	3,006,108	14,544,735
4302	Bao Loc	Lam Dong	4,300,103	0.78	3,374,302	674,860	2,699,441	
4312	Cat Tien	Lam Dong	194,423	0.78	152,564	30,513	122,051	
4310	Da Huoi	Lam Dong	455,042	0.78	357,073	71,415	285,658	
4301	Da Lat	Lam Dong	2,677,246	0.78	2,100,842	420,168	1,680,673	
4311	Da Teh	Lam Dong	295,360	0.78	231,770	46,354	185,416	
4303	Dam Rong	Lam Dong	122,337	0.78	95,998	19,200	76,799	
4308	Di Linh	Lam Dong	859,915	0.78	674,777	134,955	539,822	
4306	Don Duong	Lam Dong	952,727	0.78	747,607	149,521	598,086	
4307	Duc Trong	Lam Dong	2,785,527	0.78	2,185,810	437,162	1,748,648	
4304	Lac Duong	Lam Dong	267,751	0.78	210,105	42,021	168,084	
4305	Lam Ha	Lam Dong	836,307	0.78	656,252	131,250	525,002	
Total								56,495,138

Sources: Statistic books, DOITs and TCXDVN 33:2006

AP 4.1.2 Water for Domestic Demand in Central Highlands in 2015

Code	District	Province	Urbanization level	Urban Water Demand					Rural Water Demand					Urban and Rural Domestic Water Demand		
				Urban population	Standard (l/cap/day)	Total (m ³ /year)	GW (m ³ /year)	SW (m ³ /year)	Rural population	Standard (l/cap/day)	Total (m ³ /year)	GW (m ³ /year)	SW (m ³ /year)	Total (m ³ /year)	GW (m ³ /year)	SW (m ³ /year)
3902	Dak Glei	Kon Tum	V	6621	100	241,667	13,122	228,544	37022	50	675,652	337,826	337,826	917,318	350,948	566,370
3907	Dak Ha	Kon Tum	V	19427	100	709,086	38,503	670,582	48968	50	893,666	446,833	446,833	1,602,752	485,336	1,117,415
3904	Dak To	Kon Tum	V	14283	100	521,330	28,308	493,021	29227	50	533,393	266,696	266,696	1,054,722	295,005	759,718
3910	Ia H'Drai	Kon Tum	V	0	100	0	0	0	6850	50	125,013	62,506	62,506	125,013	62,506	62,506
3905	Kon Plong	Kon Tum	V	0	100	0	0	0	24428	50	445,811	222,906	222,906	445,811	222,906	222,906
3906	Kon Ray	Kon Tum	V	5568	100	203,232	11,035	192,197	19218	50	350,729	175,364	175,364	553,961	186,400	367,561
3901	Kon Tum	Kon Tum	III	101043	125	4,610,087	250,328	4,359,759	60005	50	1,095,091	547,546	547,546	5,705,178	797,873	4,907,305
3903	Ngoc Hoi	Kon Tum	IV	16322	120	714,904	38,819	676,084	34520	50	629,990	314,995	314,995	1,344,894	353,814	991,079
3908	Sa Thay	Kon Tum	V	11416	100	416,684	22,626	394,058	36104	50	658,898	329,449	329,449	1,075,582	352,075	723,507
3909	Tu Mo Rong	Kon Tum	V	0	100	0	0	0	24854	50	453,586	226,793	226,793	453,586	226,793	226,793
4002	An Khe	Gia Lai	V	43205	100	1,576,983	271,556	1,305,426	23213	50	423,637	211,819	211,819	2,000,620	483,375	1,517,245
4003	Ayun Pa	Gia Lai	V	22975	100	838,588	144,405	694,183	14503	50	264,680	132,340	132,340	1,103,267	276,745	826,523
4006	Chu Pah	Gia Lai	V	11987	100	437,526	75,342	362,184	59781	50	1,091,003	545,502	545,502	1,528,529	620,844	907,685
4011	Chu Prong	Gia Lai	V	9356	100	341,494	58,805	282,689	98371	50	1,795,271	897,635	897,635	2,136,765	956,441	1,180,324
4017	Chu PuH	Gia Lai	V	11701	100	427,087	73,544	353,542	58344	50	1,064,778	532,389	532,389	1,491,865	605,933	885,931
4012	Chu Se	Gia Lai	IV	29672	120	1,299,634	223,797	1,075,837	85568	50	1,561,616	780,808	780,808	2,861,250	1,004,605	1,856,645
4005	Dak Doa	Gia Lai	V	15165	100	553,523	95,317	458,206	93208	50	1,701,046	850,523	850,523	2,254,569	945,840	1,308,729
4013	Dak Po	Gia Lai	V	4818	100	175,857	30,283	145,574	36867	50	672,823	336,411	336,411	848,680	366,694	481,986
4010	Duc Co	Gia Lai	V	13207	100	482,056	83,010	399,046	55456	50	1,012,072	506,036	506,036	1,494,128	589,046	905,082
4007	Ia Grai	Gia Lai	V	10813	100	394,675	67,963	326,712	84476	50	1,541,687	770,844	770,844	1,936,362	838,806	1,097,555
4014	Ia Pa	Gia Lai	V	0	100	0	0	0	54172	50	988,639	494,320	494,320	988,639	494,320	494,320
4004	KBang	Gia Lai	V	16719	100	610,244	105,084	505,160	48821	50	890,983	445,492	445,492	1,501,227	550,576	950,651
4009	Kong Chro	Gia Lai	V	9904	100	361,496	62,250	299,246	37957	50	692,715	346,358	346,358	1,054,211	408,607	645,604
4015	Krong Pa	Gia Lai	V	11700	100	427,050	73,538	353,512	67940	50	1,239,905	619,953	619,953	1,666,955	693,491	973,464
4008	Mang Yang	Gia Lai	V	9478	100	345,947	59,572	286,375	53294	50	972,616	486,308	486,308	1,318,563	545,880	772,683
4016	Phu Thien	Gia Lai	V	20073	100	732,665	126,165	606,500	56916	50	1,038,717	519,359	519,359	1,771,382	645,523	1,125,858
4001	Pleiku	Gia Lai	II	181700	125	8,290,063	1,427,549	6,862,514	46040	50	840,230	420,115	420,115	9,130,293	1,847,664	7,282,629
4106	Buon Don	Dak Lak	V	0	100	0	0	0	63816	50	1,164,642	582,321	582,321	1,164,642	582,321	582,321
4115	Buon Ho	Dak Lak	V	56155	100	2,049,658	1,683,999	365,659	46471	50	848,096	424,048	424,048	2,897,753	2,108,046	789,707
4101	Buon Ma Thuot	Dak Lak	I	231960	130	11,006,502	9,042,942	1,963,560	123714	50	2,257,781	1,128,890	1,128,890	13,264,283	10,171,832	3,092,450
4114	Cu Kuin	Dak Lak	V	0	100	0	0	0	103842	50	1,895,117	947,558	947,558	1,895,117	947,558	947,558
4107	Cu M'gar	Dak Lak	V	31411	100	1,146,502	941,966	204,536	141613	50	2,584,437	1,292,219	1,292,219	3,730,939	2,234,184	1,496,754
4102	Ea H'leo	Dak Lak	IV	20125	120	881,475	174,220	707,255	108222	50	1,975,052	987,526	987,526	2,856,527	1,711,746	1,144,781
4108	Ea Kar	Dak Lak	IV	24383	120	1,067,975	877,449	190,527	126512	50	2,308,844	1,154,422	1,154,422	3,376,819	2,031,871	1,344,949
4103	Ea Sup	Dak Lak	V	12009	100	438,329	360,131	78,198	52555	50	959,129	479,564	479,564	1,397,457	839,695	557,762
4112	Krong Ana	Dak Lak	IV	24852	120	1,088,518	894,326	194,192	61275	50	1,118,269	559,134	559,134	2,206,786	1,453,460	753,326
4111	Krong Bong	Dak Lak	V	6897	100	251,741	206,830	44,911	87663	50	1,599,850	799,925	799,925	1,851,590	1,006,765	844,835
4105	Krong Buk	Dak Lak	V	0	100	0	0	0	62648	50	1,143,326	571,663	571,663	1,143,326	571,663	571,663
4104	Krong Nang	Dak Lak	V	12715	100	464,098	381,303	82,795	111862	50	2,041,482	1,020,741	1,020,741	2,505,579	1,402,043	1,103,536
4110	Krong Pak	Dak Lak	IV	18309	120	801,934	658,869	143,065	188917	50	3,447,735	1,723,868	1,723,868	4,249,669	2,382,737	1,866,933
4113	Lak	Dak Lak	V	6108	100	222,942	183,169	39,773	58536	50	1,068,282	534,141	534,141	1,291,224	717,310	573,914
4109	M'Drak	Dak Lak	V	5661	100	206,627	169,764	36,862	65467	50	1,194,773	597,386	597,386	1,401,399	767,151	634,249
4203	Cu Jut	Dak Nong	V	17214	100	628,311	0	628,311	82102	50	1,498,362	749,181	749,181	2,126,673	749,181	1,377,492
4202	Dak Glong	Dak Nong	V	0	100	0	0	0	53518	50	976,704	488,352	488,352	976,704	488,352	488,352
4204	Dak Mil	Dak Nong	IV	11157	120	488,677	0	488,677	89993	50	1,642,372	821,186	821,186	2,131,049	821,186	1,309,863
4207	Dak R'Lap	Dak Nong	IV	10874	120	476,281	0	476,281	73459	50	1,340,627	670,313	670,313	1,816,908	670,313	1,146,595
4206	Dak Song	Dak Nong	V	5178	100	188,997	0	188,997	63836	50	1,165,007	582,504	582,504	1,354,004	582,504	771,501
4201	Gia Nghia	Dak Nong	III	38697	125	1,765,551	0	1,765,551	18208	50	332,296	166,148	166,148	2,097,847	166,148	1,931,699
4205	Krong No	Dak Nong	V	6718	100	245,207	0	245,207	65889	50	1,202,474	601,237	601,237	1,447,681	601,237	846,444
4208	Tuy Duc	Dak Nong	V	0	100	0	0	0	47069	50	859,009	429,505	429,505	859,009	429,505	429,505
4309	Bao Lam	Lam Dong	V	18675	100	681,638	136,328	545,310	98724	50	1,801,713	900,857	900,857	2,483,351	1,037,184	1,446,167
4302	Bao Loc	Lam Dong	IV	98053	120	4,294,721	858,944	3,435,777	59988	50	1,094,781	547,391	547,391	5,389,502	1,406,335	3,983,168
4312	Cat Tien	Lam Dong	V	11263	100	411,100	82,220	328,880	28175	50	514,194	257,097	257,097	925,293	339,317	585,976
4310	Da Huoai	Lam Dong	V	14446	100	527,279	105,456	421,823	21557	50	393,415	196,708	196,708	920,694	302,163	618,531
4301	Da Lat	Lam Dong	I	198383	130	9,413,273	1,882,655	7,530,619	21768	50	397,266	198,633	198,633	9,810,539	2,081,288	7,729,252
4311	Da Teh	Lam Dong	V	16888	100	616,412	123,282	493,130	30127	50	549,818	274,909	274,909	1,166,230	398,191	768,038
4303	Dam Rong	Lam Dong	V	0	100	0	0	0	45522	50	830,777	415,388	415,388	830,777	415,388	415,388
4308	Di Linh	Lam Dong	V	27411	100	1,000,502	200,100	800,401	137308	50	2,505,871	1,252,936	1,252,936	3,506,373	1,453,036	2,053,337
4306	Don Duong	Lam Dong	V	26800	100	978,200	195,640	782,560	74502	50	1,359,662	679,831	679,831	2,337,862	875,471	1,462,391
4307	Duc Trong	Lam Dong	IV	45860	120	2,008,668	401,734	1,606,934	132314	50	2,414,731	1,207,365	1,207,365	4,423,399	1,609,099	2,814,300
4304	Lac Duong	Lam Dong	V	8150	100	297,475	59,495	237,980	13252	50	241,849	120,925	120,925	539,324	180,420	358,905
4305	Lam Ha	Lam Dong	V	30522	100	1,114,053	222,811	891,242	115980	50	2,116,635	1,058,318	1,058,318	3,230,688	1,281,128	1,949,560

Sources: Statisticbooks, DOCs, WSCs, TCXDVN 33:2006;
Resolution No. 1210/2016/UBTVQH13 on urban clarification

AP 4.1.3 Number and O&M Condition of Industrial Water Supply Systems in Central Highlands

No.	District/City	Industrial Area		Ground Water Source				Number of Industrial Area				Water Supply System in Industrial Area						
		Name	Location (Commune/ Humlet)	Depth (m)	Producibility (lit/sec)	Availability in Peak Dry Season (Yes/No)	Status in 2015/2016 drought	Total	Gov.	Pri.	Other	WS Company			Own			
												Gov.	Pri.	Other	Gov.	Pri.	Other	
I 39-Kon Tum																		
1	Bo Y International Border Gate Economical Park/Ngoc Hoi District	Bo Y International Border Gate Economical Park	Bo Y Commune, Ngoc Hoi District	0	0	Yes	Enough	1	1	0	0	1	0	0	0	0	0	0
2	Hoa Binh Industrial Park/Kon Tum City	Hoa Binh Industrial Park	Kom Tum City	15 - 80	2.32	Yes	Enough	1	1	0	0	0	0	0	1	0	0	0
Sub - Total					2.32			2	2	0	0	1	0	0	1	0	0	0
II 40-Gia Lai																		
1	Tra Da and Bien Ho Commune, Pleiku City	Tra Da Industrial Park	Tra Da and Bien Ho Commune, Pleiku City	180	9.64	Yes	Enough	1	1	0	0	0	0	0	1	0	0	0
Sub - Total					9.64			1	1	0	0	0	0	0	1	0	0	0
III 41-Dak Lak																		
1	Buon Ma Thuot City	Hoa Phu Industrial Park	Hoa Phu Ward/Buon Ma Thuot City	80	6.94	Yes	Enough	1	1	0	0	0	0	0	0	1	0	0
2	Buon Ma Thuot City	Tan An Industrial Park	Tan An Commune/Buon Ma Thuot City	70-80	9.26	Yes	Enough	1	1	0	0	0	0	0	0	1	0	0
Sub - Total					16.20			2	2	0	0	0	0	0	0	2	0	0
IV 42-Dak Nong																		
1	Tam Thang Commune/Cu Jut District	Tam Thang Industrial Park	Tam Thang Commune	40-80	4.14	Yes	Enough	1	1	0	0	0	0	0	0	1	0	0
2	Nhan Co Commune/Dak R'lap District	Nhan Co Industrial Park	Nhan Co Commune	-	0.00		Under Construction	0	0	0	0	0	0	0	0	0	0	0
Sub - Total					4.14			1	1	0	0	0	0	0	0	1	0	0
V 43-Lam Dong																		
1	Duc Trong District	Phu Hoi Industrial Area	Phu Hoi Commune	60-100	11.57	Yes	Enough	1	1	-	-	-	-	-	-	1	-	-
2	Bao Loc City	Loc Son Industrial Area	Loc Son Ward	20-70	4.63	Yes	Enough	1	1	-	-	-	-	-	-	1	-	-
Sub - Total					16.20			2	2	0	0	0	0	0	0	2	0	0

Note: <1>Bo Y International Border Gate Economical Park, Kon Tum province uses surface water;

<2>Nhan Co Industrial Park, Dak Nong is being constructed, planning to open in 2018

<3>Pri.: Private; Gov.: Government;

Source: Industrial Management Boards in Central Highlands

AP 4.2.1 Annual Surface Water Availability in 2015/16 (unit: million m³)

Sub-Basin	Se San	Sub-Basin	Ba	Sub-Basin	Srepok	Sub-Basin	Dong Nai
SS01	645	Ba01	380	SP01	548	DN01	616
SS02	326	Ba02	180	SP02	516	DN02	526
SS03	495	Ba03-1	0	SP03	523	DN03	1,853
SS04	1,229	Ba03	195	SP04	492	DN04	414
SS05	1,706	Ba04	553	SP05	468	DN05	448
SS06	246	Ba05	210	SP06	1,776	DN06	401
SS07	253	Ba06	352	SP07	428	DN07	5,225
SS08	292	Ba07	366	SP08	678	DN08	2,432
SS09	4,119	Ba08	262	SP09	88.0	DN09	317
SS10	47.8	Ba09	108	SP10	336	DN10	1,836
SS11	345	Ba10	444	SP11	7,181	DN11	402
SS12	4,103	Ba11	463	SP12	249	DN12	1,088
SS13	703	Ba12	1,341	SP13	235	DN13	5,284
SS14	289	Ba13	1,262.8	SP14	4,176	DN14	5,774
SS15	4,317	Ba14	40	SP15	462	DN15	731
SS16	411	Ba15	2,012	SP16	3,519	DN16	748
SS17	287	Ba16	2,125	SP17	474	DN17	1,187
SS18	4,514	Ba17	2,162	SP18	5,075	DN18	226
SS19	255	Ba18	0.0	SP19	5,012	DN19	1,261
SS20	439	Ba19	32	SP20	4,538	DN20	547
SS21	5,162	Ba20	228	SP21	1,518		
SS22	210	Ba21	716	SP22	241		
				SP23	4,618		
				SP24	683		
				SP25	1,739		
				SP26	1,114		
				SP27	730		
				SP28	2,157		
				SP29	623		
Total	5,162	Total	2,162	Total	9,561	Total	5,774

Source: JICA Study Team

AP 4.2.2 Annual Groundwater Availability in 2015/16 (unit: million m³)

Sub-Basin	Se San	Sub-Basin	Ba	Sub-Basin	Srepok	Sub-Basin	Dong Nai
SS01	16	Ba01	5	SP01	101	DN01	101
SS02	5	Ba02	9	SP02	205	DN02	70
SS03	12	Ba03-1		SP03	78	DN03	380
SS04	46	Ba03	17	SP04	432	DN04	2
SS05	150	Ba04	49	SP05	231	DN05	14
SS06	5	Ba05	100	SP06	966	DN06	6
SS07	10	Ba06	45	SP07	61	DN07	226
SS08	6	Ba07	83	SP08	46	DN08	6
SS09	499	Ba08	174	SP09	3	DN09	21
SS10	0	Ba09	1	SP10	83	DN10	147
SS11	15	Ba10	174	SP11	188	DN11	6
SS12	375	Ba11	230	SP12	19	DN12	66
SS13	54	Ba12	56	SP13	5	DN13	57
SS14	33	Ba13	283	SP14	218	DN14	166
SS15	355	Ba14	9	SP15	61	DN15	19
SS16	34	Ba15	252	SP16	90	DN16	6
SS17	55	Ba16	248	SP17	41	DN17	19
SS18	310	Ba17	249	SP18	63	DN18	2
SS19	25	Ba18		SP19	28	DN19	307
SS20	23	Ba19	8	SP20	322	DN20	32
SS21	693	Ba20	55	SP21	72		
SS22	13	Ba21	30	SP22	4		
				SP23	239		
				SP24	8		
				SP25	198		
				SP26	11		
				SP27	4		
				SP28	176		
				SP29	69		
Total	2,733.1	Total	2,075.4	Total	4,020.4	Total	1,653.9

Source: JICA Study Team

AP 4.2.3 Annual Domestic Water Demand in Dry and Wet Year

Domestic Water Demand from SW (10⁶ m3/year)

CODE	District	Province	Area (km2)	2015/16	Dry Year	Wet Year
3901	Kon Tum	Kon Tum	432	9.63	9.63	9.63
3902	Dak Glei	Kon Tum	1,497	2.29	2.29	2.29
3903	Ngoc Hoi	Kon Tum	849	9.30	9.30	9.30
3904	Dak To	Kon Tum	508	4.04	4.04	4.04
3905	Kon Plong	Kon Tum	1,376	1.13	1.13	1.13
3906	Kon Ray	Kon Tum	919	1.91	1.91	1.91
3907	Dak Ha	Kon Tum	844	5.94	5.94	5.94
3908	Sa Thay	Kon Tum	1,399	3.98	3.98	3.98
3909	Tu Mo Rong	Kon Tum	860	1.02	1.02	1.02
3910	Ia H'Drai	Kon Tum	1,014	0.61	0.61	0.61
4001	Pleiku	Gia Lai	262	10.53	10.53	10.53
4002	An Khe	Gia Lai	200	4.94	4.94	4.94
4003	Ayun Pa	Gia Lai	289	2.28	2.28	2.28
4004	KBang	Gia Lai	1,843	2.08	2.08	2.08
4005	Dak Doa	Gia Lai	984	7.89	7.89	7.89
4006	Chu Pah	Gia Lai	981	1.98	1.98	1.98
4007	Ia Grai	Gia Lai	1,118	2.78	2.78	2.78
4008	Mang Yang	Gia Lai	1,129	8.11	8.11	8.11
4009	Kong Chro	Gia Lai	1,449	1.83	1.83	1.83
4010	Duc Co	Gia Lai	722	2.72	2.72	2.72
4011	Chu Prong	Gia Lai	1,699	13.68	13.68	13.68
4012	Chu Se	Gia Lai	646	10.75	10.75	10.75
4013	Dak Po	Gia Lai	503	1.65	1.65	1.65
4014	Ia Pa	Gia Lai	871	1.88	1.88	1.88
4015	Krong Pa	Gia Lai	1,629	13.12	13.12	13.12
4016	Phu Thien	Gia Lai	506	3.80	3.80	3.80
4017	Chu PuH	Gia Lai	719	2.75	2.75	2.75
4101	Buon Ma Thuot	Dak Lak	382	63.31	63.31	63.31
4102	Ea H'leo	Dak Lak	1,337	5.40	5.40	5.40
4103	Ea Sup	Dak Lak	1,769	54.88	54.88	54.88
4104	Krong Nang	Dak Lak	617	15.52	15.52	15.52
4105	Krong Buk	Dak Lak	356	13.18	13.18	13.18
4106	Buon Don	Dak Lak	1,410	25.54	25.54	25.54
4107	Cu M'gar	Dak Lak	826	5.27	5.27	5.27
4108	Ea Kar	Dak Lak	1,044	28.77	28.77	28.77
4109	M'Drak	Dak Lak	1,347	7.17	7.17	7.17
4110	Krong Pak	Dak Lak	630	8.99	8.99	8.99
4111	Krong Bong	Dak Lak	1,259	33.56	33.56	33.56
4112	Krong Ana	Dak Lak	354	14.34	14.34	14.34
4113	Lak	Dak Lak	1,252	16.51	16.51	16.51
4114	Cu Kuin	Dak Lak	292	22.46	22.46	22.46
4115	Buon Ho	Dak Lak	284	5.81	5.81	5.81
4201	Gia Nghia	Dak Nong	285	8.81	8.81	8.81
4202	Dak Glong	Dak Nong	1,450	9.72	9.72	9.72
4203	Cu Jut	Dak Nong	723	4.60	4.60	4.60
4204	Dak Mil	Dak Nong	684	13.99	13.99	13.99
4205	Krong No	Dak Nong	815	7.20	7.20	7.20
4206	Dak Song	Dak Nong	808	6.97	6.97	6.97
4207	Dak R'Lap	Dak Nong	637	6.07	6.07	6.07
4208	Tuy Duc	Dak Nong	1,121	3.36	3.36	3.36
4301	Da Lat	Lam Dong	395	50.80	50.80	50.80
4302	Bao Loc	Lam Dong	234	12.86	12.86	12.86
4303	Dam Rong	Lam Dong	865	9.23	9.23	9.23
4304	Lac Duong	Lam Dong	1,268	5.57	5.57	5.57
4305	Lam Ha	Lam Dong	984	10.11	10.11	10.11
4306	Don Duong	Lam Dong	613	9.32	9.32	9.32
4307	Duc Trong	Lam Dong	908	6.69	6.69	6.69
4308	Di Linh	Lam Dong	1,621	7.32	7.32	7.32
4309	Bao Lam	Lam Dong	1,467	5.47	5.47	5.47
4310	Da Huoi	Lam Dong	497	1.64	1.64	1.64
4311	Da Teh	Lam Dong	528	13.53	13.53	13.53
4312	Cat Tien	Lam Dong	427	3.93	3.93	3.93
Total			54,737	650.54	650.54	650.54

Domestic Water Demand from GW (10⁶ m3/year)

CODE	District	Province	Area (km2)	2015/16	Dry Year	Wet Year
3901	Kon Tum	Kon Tum	432	1.35	1.35	1.35
3902	Dak Glei	Kon Tum	1,497	0.65	0.65	0.65
3903	Ngoc Hoi	Kon Tum	849	0.59	0.59	0.59
3904	Dak To	Kon Tum	508	0.52	0.52	0.52
3905	Kon Plong	Kon Tum	1,376	0.62	0.62	0.62
3906	Kon Ray	Kon Tum	919	0.40	0.40	0.40
3907	Dak Ha	Kon Tum	844	0.81	0.81	0.81
3908	Sa Thay	Kon Tum	1,399	0.63	0.63	0.63
3909	Tu Mo Rong	Kon Tum	860	0.58	0.58	0.58
3910	Ia H'Drai	Kon Tum	1,014	0.11	0.11	0.11
4001	Pleiku	Gia Lai	262	2.66	2.66	2.66
4002	An Khe	Gia Lai	200	1.08	1.08	1.08
4003	Ayun Pa	Gia Lai	289	0.61	0.61	0.61
4004	KBang	Gia Lai	1,843	0.88	0.88	0.88
4005	Dak Doa	Gia Lai	984	1.68	1.68	1.68
4006	Chu Pah	Gia Lai	981	1.03	1.03	1.03
4007	Ia Grai	Gia Lai	1,118	1.43	1.43	1.43
4008	Mang Yang	Gia Lai	1,129	1.76	1.76	1.76
4009	Kong Chro	Gia Lai	1,449	0.96	0.96	0.96
4010	Duc Co	Gia Lai	722	1.36	1.36	1.36
4011	Chu Prong	Gia Lai	1,699	1.82	1.82	1.82
4012	Chu Se	Gia Lai	646	1.72	1.72	1.72
4013	Dak Po	Gia Lai	503	0.89	0.89	0.89
4014	Ia Pa	Gia Lai	871	1.46	1.46	1.46
4015	Krong Pa	Gia Lai	1,629	1.51	1.51	1.51
4016	Phu Thien	Gia Lai	506	1.35	1.35	1.35
4017	Chu PuH	Gia Lai	719	1.40	1.40	1.40
4101	Buon Ma Thuot	Dak Lak	382	11.77	11.77	11.77
4102	Ea H'leo	Dak Lak	1,337	2.58	2.58	2.58
4103	Ea Sup	Dak Lak	1,769	2.81	2.81	2.81
4104	Krong Nang	Dak Lak	617	2.11	2.11	2.11
4105	Krong Buk	Dak Lak	356	1.55	1.55	1.55
4106	Buon Don	Dak Lak	1,410	1.86	1.86	1.86
4107	Cu M'gar	Dak Lak	826	2.77	2.77	2.77
4108	Ea Kar	Dak Lak	1,044	3.20	3.20	3.20
4109	M'Drak	Dak Lak	1,347	1.18	1.18	1.18
4110	Krong Pak	Dak Lak	630	3.49	3.49	3.49
4111	Krong Bong	Dak Lak	1,259	3.31	3.31	3.31
4112	Krong Ana	Dak Lak	354	2.39	2.39	2.39
4113	Lak	Dak Lak	1,252	1.51	1.51	1.51
4114	Cu Kuin	Dak Lak	292	1.60	1.60	1.60
4115	Buon Ho	Dak Lak	284	2.93	2.93	2.93
4201	Gia Nghia	Dak Nong	285	0.31	0.31	0.31
4202	Dak Glong	Dak Nong	1,450	0.85	0.85	0.85
4203	Cu Jut	Dak Nong	723	0.98	0.98	0.98
4204	Dak Mil	Dak Nong	684	1.40	1.40	1.40
4205	Krong No	Dak Nong	815	0.94	0.94	0.94
4206	Dak Song	Dak Nong	808	1.26	1.26	1.26
4207	Dak R'Lap	Dak Nong	637	0.96	0.96	0.96
4208	Tuy Duc	Dak Nong	1,121	0.64	0.64	0.64
4301	Da Lat	Lam Dong	395	2.91	2.91	2.91
4302	Bao Loc	Lam Dong	234	2.57	2.57	2.57
4303	Dam Rong	Lam Dong	865	1.08	1.08	1.08
4304	Lac Duong	Lam Dong	1,268	0.52	0.52	0.52
4305	Lam Ha	Lam Dong	984	1.69	1.69	1.69
4306	Don Duong	Lam Dong	613	1.39	1.39	1.39
4307	Duc Trong	Lam Dong	908	2.28	2.28	2.28
4308	Di Linh	Lam Dong	1,621	1.93	1.93	1.93
4309	Bao Lam	Lam Dong	1,467	1.93	1.93	1.93
4310	Da Huoi	Lam Dong	497	0.46	0.46	0.46
4311	Da Teh	Lam Dong	528	1.39	1.39	1.39
4312	Cat Tien	Lam Dong	427	0.55	0.55	0.55
Total			54,737	100.96	100.96	100.96

Source: JICA Study Team

AP 4.2.4 Annual Irrigation Water Demand in Dry and Wet Year

Irrigation Water Demand from SW (mm/year)

CODE	District	Province	Area (km ²)	2015/16	Dry Year	Wet Year
3901	Kon Tum	Kon Tum	432	54.57	54.57	50.19
3902	Dak Gleai	Kon Tum	1,497	12.91	12.91	6.44
3903	Ngoc Hoi	Kon Tum	849	20.11	20.11	16.77
3904	Dak To	Kon Tum	508	29.12	29.12	27.68
3905	Kon Plong	Kon Tum	1,376	16.61	16.61	13.88
3906	Kon Ray	Kon Tum	919	24.00	24.00	10.92
3907	Dak Ha	Kon Tum	844	56.69	56.69	50.17
3908	Sa Thay	Kon Tum	1,399	11.97	11.97	13.01
3909	Tu Mo Rong	Kon Tum	860	13.72	13.72	11.86
3910	Ia H'Drai	Kon Tum	1,014	0.15	0.15	0.17
4001	Pleiku	Gia Lai	262	88.23	88.12	97.21
4002	An Khe	Gia Lai	200	47.65	85.92	31.36
4003	Ayun Pa	Gia Lai	289	78.44	131.85	68.55
4004	KBang	Gia Lai	1,843	17.38	23.90	19.09
4005	Dak Doa	Gia Lai	984	80.80	80.72	63.79
4006	Chu Pah	Gia Lai	981	47.30	47.23	38.25
4007	Ia Grai	Gia Lai	1,118	69.97	69.85	51.12
4008	Mang Yang	Gia Lai	1,129	29.91	51.37	24.35
4009	Kong Chro	Gia Lai	1,449	35.58	3.02	19.94
4010	Duc Co	Gia Lai	722	52.49	44.42	46.16
4011	Chu Prong	Gia Lai	1,699	45.25	35.59	39.97
4012	Chu Se	Gia Lai	646	91.82	126.48	70.07
4013	Dak Po	Gia Lai	503	31.92	53.52	21.74
4014	Ia Pa	Gia Lai	871	85.73	149.67	74.74
4015	Krong Pa	Gia Lai	1,629	32.21	51.44	29.70
4016	Phu Thien	Gia Lai	506	193.08	155.92	161.24
4017	Chu PuH	Gia Lai	719	37.90	31.03	29.13
4101	Buon Ma Th	Dak Lak	382	115.28	101.35	94.15
4102	Ea H'leo	Dak Lak	1,337	94.23	78.15	74.88
4103	Ea Sup	Dak Lak	1,769	66.58	66.09	69.01
4104	Krong Nang	Dak Lak	617	171.26	166.18	135.43
4105	Krong Buk	Dak Lak	356	192.30	157.30	85.27
4106	Buon Don	Dak Lak	1,410	31.61	25.71	22.10
4107	Cu M'gar	Dak Lak	826	161.89	150.66	102.55
4108	Ea Kar	Dak Lak	1,044	123.25	264.36	127.78
4109	M'Drak	Dak Lak	1,347	38.47	93.58	35.16
4110	Krong Pak	Dak Lak	630	215.19	262.80	216.91
4111	Krong Bong	Dak Lak	1,259	47.79	54.81	48.84
4112	Krong Ana	Dak Lak	354	375.01	355.90	309.38
4113	Lak	Dak Lak	1,252	68.63	70.90	64.90
4114	Cu Kuin	Dak Lak	292	252.23	250.74	224.66
4115	Buon Ho	Dak Lak	284	263.38	238.82	122.57
4201	Gia Nghia	Dak Nong	285	100.83	31.58	51.16
4202	Dak Glong	Dak Nong	1,450	20.66	13.75	18.20
4203	Cu Jut	Dak Nong	723	60.31	26.51	48.56
4204	Dak Mil	Dak Nong	684	102.10	84.43	90.45
4205	Krong No	Dak Nong	815	82.60	55.81	81.34
4206	Dak Song	Dak Nong	808	104.39	30.71	70.29
4207	Dak R'Lap	Dak Nong	637	106.03	31.82	54.97
4208	Tuy Duc	Dak Nong	1,121	50.03	18.96	32.12
4301	Da Lat	Lam Dong	395	70.56	70.56	43.11
4302	Bao Loc	Lam Dong	234	168.90	168.90	181.67
4303	Dam Rong	Lam Dong	865	54.41	54.41	47.40
4304	Lac Duong	Lam Dong	1,268	15.66	15.66	9.92
4305	Lam Ha	Lam Dong	984	194.97	194.97	141.89
4306	Don Duong	Lam Dong	613	139.60	139.60	126.73
4307	Duc Trong	Lam Dong	908	189.48	189.48	178.64
4308	Di Linh	Lam Dong	1,621	109.56	109.56	83.19
4309	Bao Lam	Lam Dong	1,467	80.33	80.33	70.18
4310	Da Huoi	Lam Dong	497	29.88	29.88	41.51
4311	Da Teh	Lam Dong	528	75.22	75.22	81.31
4312	Cat Tien	Lam Dong	427	121.40	121.40	120.32
Total			54,737	5,399.60	5,350.82	4,394.08

Source: JICA Study Team

Irrigation Water Demand from GW (mm/year)

CODE	District	Province	Area (km ²)	2015/16	Dry Year	Wet Year
3901	Kon Tum	Kon Tum	432	4.64	4.64	2.97
3902	Dak Gleai	Kon Tum	1,497	2.07	2.07	1.19
3903	Ngoc Hoi	Kon Tum	849	3.26	3.26	2.14
3904	Dak To	Kon Tum	508	7.63	7.63	5.05
3905	Kon Plong	Kon Tum	1,376	0.83	0.83	0.60
3906	Kon Ray	Kon Tum	919	12.69	12.69	0.75
3907	Dak Ha	Kon Tum	844	24.85	24.85	20.41
3908	Sa Thay	Kon Tum	1,399	2.49	2.49	3.22
3909	Tu Mo Rong	Kon Tum	860	2.03	2.03	1.19
3910	Ia H'Drai	Kon Tum	1,014	0.05	0.05	0.06
4001	Pleiku	Gia Lai	262	38.80	38.69	34.15
4002	An Khe	Gia Lai	200	0.00	0.00	0.00
4003	Ayun Pa	Gia Lai	289	0.00	0.00	0.00
4004	KBang	Gia Lai	1,843	3.60	3.74	3.13
4005	Dak Doa	Gia Lai	984	38.30	38.22	26.36
4006	Chu Pah	Gia Lai	981	24.31	24.24	14.06
4007	Ia Grai	Gia Lai	1,118	35.06	34.95	24.40
4008	Mang Yang	Gia Lai	1,129	11.13	13.72	9.70
4009	Kong Chro	Gia Lai	1,449	0.00	0.00	0.00
4010	Duc Co	Gia Lai	722	26.97	21.67	24.38
4011	Chu Prong	Gia Lai	1,699	28.19	22.94	24.45
4012	Chu Se	Gia Lai	646	54.99	53.28	40.77
4013	Dak Po	Gia Lai	503	0.00	0.00	0.00
4014	Ia Pa	Gia Lai	871	0.00	0.00	0.00
4015	Krong Pa	Gia Lai	1,629	0.00	0.00	0.00
4016	Phu Thien	Gia Lai	506	0.08	0.09	0.06
4017	Chu PuH	Gia Lai	719	57.85	15.12	11.88
4101	Buon Ma Th	Dak Lak	382	14.67	10.84	9.91
4102	Ea H'leo	Dak Lak	1,337	60.21	52.27	25.26
4103	Ea Sup	Dak Lak	1,769	0.08	0.07	0.04
4104	Krong Nang	Dak Lak	617	99.63	88.72	86.03
4105	Krong Buk	Dak Lak	356	135.21	110.34	57.55
4106	Buon Don	Dak Lak	1,410	9.18	7.34	6.53
4107	Cu M'gar	Dak Lak	826	110.87	94.99	60.52
4108	Ea Kar	Dak Lak	1,044	17.33	20.19	17.43
4109	M'Drak	Dak Lak	1,347	2.80	3.90	2.32
4110	Krong Pak	Dak Lak	630	60.81	61.79	48.85
4111	Krong Bong	Dak Lak	1,259	5.99	5.43	5.57
4112	Krong Ana	Dak Lak	354	95.33	75.40	70.05
4113	Lak	Dak Lak	1,252	5.83	5.01	3.49
4114	Cu Kuin	Dak Lak	292	116.32	104.32	96.12
4115	Buon Ho	Dak Lak	284	146.77	139.41	61.29
4201	Gia Nghia	Dak Nong	285	72.21	23.05	35.95
4202	Dak Glong	Dak Nong	1,450	10.76	9.16	8.71
4203	Cu Jut	Dak Nong	723	19.31	15.52	14.42
4204	Dak Mil	Dak Nong	684	62.86	63.00	58.10
4205	Krong No	Dak Nong	815	34.40	37.97	29.71
4206	Dak Song	Dak Nong	808	71.82	24.86	44.16
4207	Dak R'Lap	Dak Nong	637	69.46	22.18	34.56
4208	Tuy Duc	Dak Nong	1,121	33.90	13.77	20.74
4301	Da Lat	Lam Dong	395	0.00	0.00	0.00
4302	Bao Loc	Lam Dong	234	0.16	0.16	0.18
4303	Dam Rong	Lam Dong	865	0.03	0.03	0.02
4304	Lac Duong	Lam Dong	1,268	0.00	0.00	0.00
4305	Lam Ha	Lam Dong	984	0.48	0.48	0.34
4306	Don Duong	Lam Dong	613	0.04	0.04	0.04
4307	Duc Trong	Lam Dong	908	0.75	0.75	0.63
4308	Di Linh	Lam Dong	1,621	0.39	0.39	0.29
4309	Bao Lam	Lam Dong	1,467	0.20	0.20	0.18
4310	Da Huoi	Lam Dong	497	0.11	0.11	0.14
4311	Da Teh	Lam Dong	528	0.13	0.13	0.14
4312	Cat Tien	Lam Dong	427	0.17	0.17	0.13
Total			54,737	1,638.00	1,319.19	1,050.30

AP 4.2.5 Results of Surface Water Balance in 2015/16

(1) Se San River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water						Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)		
1	SS01	729	645	0.21	0.15	0.16	0.34	12.33	13.19	18.09	0.00	
2	SS02	324	326	0.15	0.10	0.09	0.26	4.06	4.66	14.36	0.00	
3	SS03	770	495	0.36	0.21	0.18	1.06	14.61	16.42	21.33	0.00	
4	SS04	587	1229	0.47	0.21	0.16	2.62	16.18	19.65	33.46	0.00	
5	SS05	706	1706	0.56	0.30	0.27	1.73	31.66	34.52	48.88	0.00	
6	SS06	376	246	0.06	0.05	0.09	0.09	5.72	6.01	15.97	-2.07	
7	SS07	550	253	0.10	0.06	0.08	0.26	3.75	4.24	7.71	-0.86	
8	SS08	651	292	0.46	0.22	0.17	2.60	2.87	6.33	9.72	0.00	
9	SS09	639	4119	0.43	0.30	0.18	0.65	28.11	29.66	46.41	0.00	
10	SS10	84	48	0.30	0.15	0.10	0.99	2.87	4.41	52.86	0.00	
11	SS11	500	345	0.10	0.06	0.08	0.26	7.70	8.20	16.40	-1.31	
12	SS12	702	4103	1.61	0.51	0.39	1.54	47.42	51.47	73.36	0.00	
13	SS13	544	703	0.44	0.35	0.24	1.52	26.10	28.65	52.70	0.00	
14	SS14	440	289	0.21	0.12	0.10	0.76	1.89	3.08	7.01	0.00	
15	SS15	628	4317	0.43	0.30	0.18	0.65	18.43	19.98	31.84	-0.31	
16	SS16	397	411	0.58	0.48	0.24	1.26	11.77	14.33	36.11	-0.15	
17	SS17	446	287	0.02	0.02	0.01	0.12	0.06	0.22	0.50	0.00	
18	SS18	527	4514	0.31	0.27	0.12	0.18	23.40	24.28	46.08	-0.33	
19	SS19	471	255	0.29	0.26	0.11	0.07	28.80	29.53	62.75	0.00	
20	SS20	494	439	2.25	0.90	0.38	1.26	36.20	40.99	82.99	-0.35	
21	SS21	564	5162	0.53	0.44	0.34	0.12	23.05	24.48	43.37	0.00	
22	SS22	249	210	2.19	0.87	0.34	0.07	23.45	26.91	108.0	-3.29	
Total		11377	5162	12	6	4	18	370	411	830	-8.66	

(2) Ba River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water						Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)		
1	Ba01	657	380	0.25	0.18	0.07	0.05	7.05	7.6	11.6	-0.82	
2	Ba02	276	180	0.25	0.18	0.07	0.05	5.45	6.0	21.7	-0.64	
3	Ba03	666	195	0.21	0.17	0.38	1.35	32.62	34.7	52.2	-1.61	
4	Ba04	525	553	0.65	0.35	0.42	0.41	22.67	24.5	46.7	0.00	
5	Ba05	628	210	0.30	0.24	0.31	0.05	25.30	26.2	41.7	0.00	
6	Ba06	332	352	0.84	0.60	0.35	3.06	38.82	43.7	131.4	-2.38	
7	Ba07	643	366	1.05	0.77	0.73	4.41	26.98	33.9	52.8	0.00	
8	Ba08	460	262	0.34	0.31	0.59	1.35	21.42	24.0	52.2	-0.05	
9	Ba09	707	108	0.30	0.24	0.31	0.05	13.36	14.3	20.2	-2.85	
10	Ba10	211	444	0.17	0.13	0.17	0.00	18.04	18.5	87.6	0.00	
11	Ba11	431	463	0.30	0.27	0.39	0.00	19.27	20.2	47.0	0.00	
12	Ba12	756	1341	1.32	0.91	0.76	2.91	101.70	107.6	142.3	0.00	
13	Ba13	622	1263	0.94	0.66	0.73	1.14	68.44	71.9	115.6	0.00	
14	Ba14	340	40	0.13	0.15	0.21	0.00	5.23	5.7	16.8	-0.03	
15	Ba15	536	2012	0.60	0.46	0.61	2.82	30.98	35.5	66.2	0.00	
16	Ba16	670	2125	0.26	0.21	0.22	2.72	15.74	19.2	28.6	0.00	
17	Ba17	576	2162	0.26	0.21	0.22	2.72	31.48	34.9	60.6	0.00	
18	Ba19	524	32	0.64	0.45	0.26	10.16	110.59	122.1	233.1	-33.73	
19	Ba20	625	228	0.64	0.45	0.26	10.16	55.55	67.1	107.3	0.00	
20	Ba21	594	716	0.52	0.36	0.22	8.24	26.36	35.7	60.1	-8.56	
Total		10779	2162	10	7	7	52	677	753	1395	-50.6	

(3) Srepok River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water						Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)		
1	SP01	572	548	2.45	1.08	0.64	2.82	45.64	52.64	92.09	-0.12	
2	SP02	419	516	0.24	0.18	0.23	0.05	20.47	21.17	50.58	0.00	
3	SP03	586	523	0.31	0.29	0.18	2.77	17.68	21.24	36.24	-0.40	
4	SP04	553	492	0.54	0.48	0.41	2.84	29.12	33.39	60.33	-0.10	
5	SP05	502	468	0.73	0.50	0.42	1.87	28.10	31.61	62.95	0.00	
6	SP06	641	1776	0.15	0.10	0.32	13.70	36.51	50.78	79.28	0.00	
7	SP07	476	428	0.53	0.40	0.34	0.85	71.78	73.90	155.36	-10.15	
8	SP08	764	678	0.45	0.31	0.43	14.48	43.22	58.90	77.10	-0.02	
9	SP09	278	88	0.15	0.10	0.32	13.70	12.96	27.22	97.94	-0.58	
10	SP10	619	336	0.45	0.31	0.43	14.48	24.74	40.41	65.33	-2.56	
11	SP11	511	7181	0.15	0.10	0.31	6.08	0.00	6.64	13.00	0.00	
12	SP12	507	249	0.54	0.38	0.27	3.60	25.01	29.81	58.85	-0.41	
13	SP13	458	235	0.65	0.47	0.39	7.46	96.41	105.39	230.21	-31.49	
14	SP14	487	4176	0.86	0.40	0.52	9.69	0.00	11.47	23.57	0.00	
15	SP15	970	462	0.55	0.38	0.35	6.73	179.18	187.19	192.93	0.00	
16	SP16	534	3519	0.71	0.30	0.21	3.61	20.78	25.61	47.96	0.00	
17	SP17	958	474	1.05	0.75	0.37	9.15	171.02	182.35	190.28	-108.67	
18	SP18	152	5075	0.36	0.15	0.04	0.65	24.61	25.81	169.58	0.00	
19	SP19	429	5012	1.53	0.87	0.28	18.61	93.38	114.67	267.45	0.00	
20	SP20	1014	4538	2.06	1.25	0.73	29.31	166.67	200.02	197.31	-21.74	
21	SP21	864	1518	0.96	0.66	0.75	14.53	82.94	99.85	115.60	-81.87	
22	SP22	261	241	0.17	0.12	0.06	1.52	27.20	29.06	111.34	-0.06	
23	SP23	895	4618	0.58	0.35	0.33	8.64	171.55	181.45	202.74	-54.82	
24	SP24	695	683	0.22	0.04	0.47	7.88	13.84	22.45	32.32	0.00	
25	SP25	742	1739	0.60	0.31	0.40	6.66	126.33	134.30	181.10	0.00	
26	SP26	564	1114	0.26	0.13	0.30	6.00	19.90	26.59	47.15	0.00	
27	SP27	693	730	0.11	0.04	0.14	1.16	1.79	3.24	4.67	0.00	
28	SP28	886	2157	0.63	0.31	0.45	9.70	37.13	48.22	54.41	-7.65	
29	SP29	860	623	0.25	0.10	0.22	4.35	10.49	15.41	17.93	0.00	
Total		17887	9561	18	11	10	223	1598	1861	2936	-321	

(4) Dong Nai River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water							Water Balance (Water Shortage)	
				Domestic	Industrial	Live Stock	Fishery	Agriculture	Total		(10 ⁶ m ³ /y)	(mm/y)
1	DN01	347	616	0.22	0.10	0.18	1.31	48.71	50.5	145.8	-3.61	
2	DN02	321	526	0.42	0.19	0.10	1.74	23.47	25.9	81	0.00	
3	DN03	491	1853	1.05	0.31	0.42	3.90	52.78	58.5	119.0	0.00	
4	DN04	477	414	0.11	0.04	0.14	1.16	16.49	17.9	38	-1.28	
5	DN05	763	448	0.60	0.18	0.26	3.03	92.44	96.5	126.6	-12.78	
6	DN06	251	401	2.42	0.59	0.52	12.09	19.24	34.9	138.9	-7.97	
7	DN07	699	5225	0.84	0.94	0.19	2.05	66.98	71.0	101.5	0.00	
8	DN08	181	2432	0.52	0.08	0.17	1.51	7.68	10.0	55	0.00	
9	DN09	382	317	3.27	1.03	0.59	12.68	76.56	94.1	246.4	-39.47	
10	DN10	180	1836	0.38	0.78	0.04	0.22	4.19	6	31	0.00	
11	DN11	686	402	3.17	1.05	0.62	12.54	89.67	107.0	155.9	-16.87	
12	DN12	549	1088	0.52	0.86	0.10	2.46	57.24	61.2	111.5	0.00	
13	DN13	474	5284	0.16	0.03	0.08	0.76	11.91	12.9	27.3	0.00	
14	DN14	711	5774	0.16	0.03	0.08	0.76	38.44	39.5	55.5	0.00	
15	DN15	547	731	0.59	0.83	0.51	3.01	40.24	45.2	82.5	0.00	
16	DN16	444	748	1.59	1.56	0.43	1.61	46.46	52	116	-11.52	
17	DN17	709	1187	1.75	0.73	0.36	3.43	142.72	149.0	210.2	-7.42	
18	DN18	463	226	0.74	0.45	0.10	0.45	63.41	65.1	140.8	-15.85	
19	DN19	249	1261	0.37	0.12	0.51	2.94	13.51	17.5	70.1	0.00	
20	DN20	312	547	0.16	0.07	0.04	0.14	6.66	7	23	0.00	
Total		9236	5774	19	10	5	68	919	1021	2076	-116.8	

Source: JICA Study Team

AP 4.2.6 Results of Ground Water Balance in 2015/16**(1) Se San River Basin**

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water					Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)	
1	SS01	729	16	0.15	0.04	0.13	0.00	1.95	2.27	3.12	0.00
2	SS02	324	5	0.09	0.02	0.05	0.00	0.65	0.82	2.53	0.00
3	SS03	770	12	0.19	0.05	0.12	0.00	4.39	4.75	6.17	-0.16
4	SS04	587	46	0.17	0.05	0.06	0.00	3.00	3.29	5.60	0.00
5	SS05	706	150	0.27	0.08	0.16	0.00	10.50	11.00	15.58	0.00
6	SS06	376	5	0.06	0.01	0.09	0.00	0.29	0.45	1.19	0.00
7	SS07	550	10	0.05	0.01	0.04	0.00	1.98	2.09	3.79	0.00
8	SS08	651	6	0.19	0.05	0.07	0.00	0.53	0.85	1.31	0.00
9	SS09	639	499	0.26	0.07	0.10	0.00	11.70	12.13	18.98	0.00
10	SS10	84	0	0.13	0.04	0.04	0.00	1.26	1.47	17.60	-1.15
11	SS11	500	15	0.05	0.01	0.04	0.00	3.16	3.27	6.54	0.00
12	SS12	702	375	0.34	0.13	0.09	0.00	12.04	12.60	17.96	0.00
13	SS13	544	54	0.30	0.09	0.15	0.00	13.15	13.69	25.18	-0.17
14	SS14	440	33	0.11	0.03	0.05	0.00	0.40	0.59	1.35	0.00
15	SS15	628	355	0.26	0.07	0.10	0.00	9.54	9.97	15.89	0.00
16	SS16	397	34	0.64	0.12	0.17	0.00	7.17	8.10	20.40	0.00
17	SS17	446	55	0.02	0.00	0.01	0.00	0.02	0.05	0.11	0.00
18	SS18	527	310	0.24	0.07	0.10	0.00	11.78	12.18	23.10	0.00
19	SS19	471	25	0.22	0.06	0.09	0.00	14.50	14.87	31.61	-3.25
20	SS20	494	23	0.73	0.23	0.17	0.00	16.91	18.04	36.53	-7.93
21	SS21	564	693	0.38	0.11	0.24	0.00	11.72	12.45	22.05	0.00
22	SS22	249	13	0.70	0.22	0.14	0.00	11.46	12.52	50.26	-6.54
Total		11377	2733	5.54	1.58	2.23	0.00	148.09	157.44	326.8	-19.20

(2) Ba River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water					Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)	
1	Ba01	657	5	0.14	0.04	0.04	0.00	1.46	1.69	3	-0.04
2	Ba02	276	9	0.14	0.04	0.04	0.00	1.13	1.36	5	0.00
3	Ba03	666	17	0.15	0.04	0.27	0.00	13.19	13.6	21	-5.99
4	Ba04	525	49	0.27	0.09	0.15	0.00	2.72	3.23	6	0.00
5	Ba05	628	100	0.20	0.06	0.22	0.00	0.73	1.21	2	0.00
6	Ba06	332	45	0.52	0.15	0.22	0.00	21.66	22.5	68	-5.49
7	Ba07	643	83	0.66	0.19	0.49	0.00	12.60	13.9	22	0.00
8	Ba08	460	174	0.28	0.08	0.48	0.00	0.88	1.72	4	0.00
9	Ba09	707	1	0.20	0.06	0.22	0.00	0.00	0.48	1	-0.16
10	Ba10	211	174	0.11	0.03	0.11	0.00	0.00	0.25	1	0.00
11	Ba11	431	230	0.24	0.07	0.33	0.00	0.00	0.63	1	0.00
12	Ba12	756	56	1.05	0.23	0.56	0.00	34.57	36.4	48	-12.0
13	Ba13	622	283	0.82	0.17	0.57	0.00	0.02	1.58	3	0.00
14	Ba14	340	9	0.13	0.04	0.21	0.00	0.00	0.38	1	0.00
15	Ba15	536	252	0.39	0.11	0.43	0.00	0.00	0.93	2	0.00
16	Ba16	670	248	0.18	0.05	0.16	0.00	0.00	0.39	1	0.00
17	Ba17	576	249	0.18	0.05	0.16	0.00	0.00	0.39	1	0.00
19	Ba19	524	8	0.90	0.11	0.37	0.00	49.58	51.0	97	-45.6
20	Ba20	625	55	0.90	0.11	0.37	0.00	20.40	21.8	35	-1.68
21	Ba21	594	30	0.74	0.09	0.31	0.00	2.62	3.76	6	0.00
Total		10779	2075	8.20	1.82	5.69	0.00	162	177	326	-70.99

(3) Srepok River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water					Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)	
1	SP01	572	100.9	0.89	0.27	0.36	0.00	26.91	28.43	49.74	0.00
2	SP02	419	204.8	0.16	0.05	0.15	0.00	10.51	10.87	25.96	0.00
3	SP03	586	77.6	0.25	0.07	0.15	0.00	11.01	11.49	19.60	0.00
4	SP04	553	431.5	0.41	0.12	0.30	0.00	19.77	20.60	37.22	0.00
5	SP05	502	231.4	0.43	0.12	0.26	0.00	26.94	27.75	55.26	0.00
6	SP06	641	966.1	0.22	0.03	0.48	0.00	0.04	0.77	1.21	0.00
7	SP07	476	61.5	0.61	0.10	0.33	0.00	51.43	52.46	110.28	-28.42
8	SP08	764	46.1	0.67	0.08	0.65	0.00	8.08	9.49	12.42	0.00
9	SP09	278	2.8	0.22	0.03	0.48	0.00	0.01	0.75	2.68	0.00
10	SP10	619	83.3	0.67	0.08	0.65	0.00	0.03	1.43	2.31	0.00
11	SP11	511	187.8	0.15	0.03	0.31	0.00	0.00	0.48	0.95	0.00
12	SP12	507	19.4	0.74	0.10	0.29	0.00	17.34	18.46	36.45	-9.55
13	SP13	458	4.9	1.07	0.12	0.52	0.00	60.92	62.63	136.80	-58.56
14	SP14	487	217.5	0.57	0.10	0.43	0.00	0.00	1.10	2.27	0.00
15	SP15	970	61.2	0.74	0.10	0.37	0.00	109.99	111.20	114.60	-83.81
16	SP16	534	90.4	0.42	0.07	0.13	0.00	9.41	10.03	18.78	0.00
17	SP17	958	40.8	1.71	0.19	0.60	0.00	39.13	41.63	43.44	-22.99
18	SP18	152	62.6	0.20	0.04	0.02	0.00	7.61	7.87	51.71	0.00
19	SP19	429	27.8	3.10	0.22	0.36	0.00	17.05	20.73	48.36	-8.21
20	SP20	1014	322.3	3.86	0.31	0.86	0.00	72.04	77.07	76.03	-4.52
21	SP21	864	72.0	1.14	0.16	0.88	0.00	43.11	45.29	52.44	-14.18
22	SP22	261	3.6	0.20	0.03	0.07	0.00	3.05	3.36	12.87	-1.75
23	SP23	895	238.6	0.73	0.09	0.44	0.00	36.12	37.38	41.76	0.00
24	SP24	695	8.2	0.27	0.15	0.56	0.00	1.73	2.71	3.90	-0.06
25	SP25	742	198.0	0.52	0.08	0.37	0.00	7.21	8.18	11.03	0.00
26	SP26	564	10.7	0.30	0.03	0.34	0.00	0.29	0.96	1.71	0.00
27	SP27	693	4.0	0.06	0.01	0.07	0.00	0.00	0.14	0.20	0.00
28	SP28	886	175.8	0.60	0.08	0.46	0.00	2.59	3.73	4.21	0.00
29	SP29	860	68.8	0.25	0.02	0.22	0.00	5.46	5.96	6.94	0.00
Total		17887	4020	21	3	11	0	588	623	981	-232

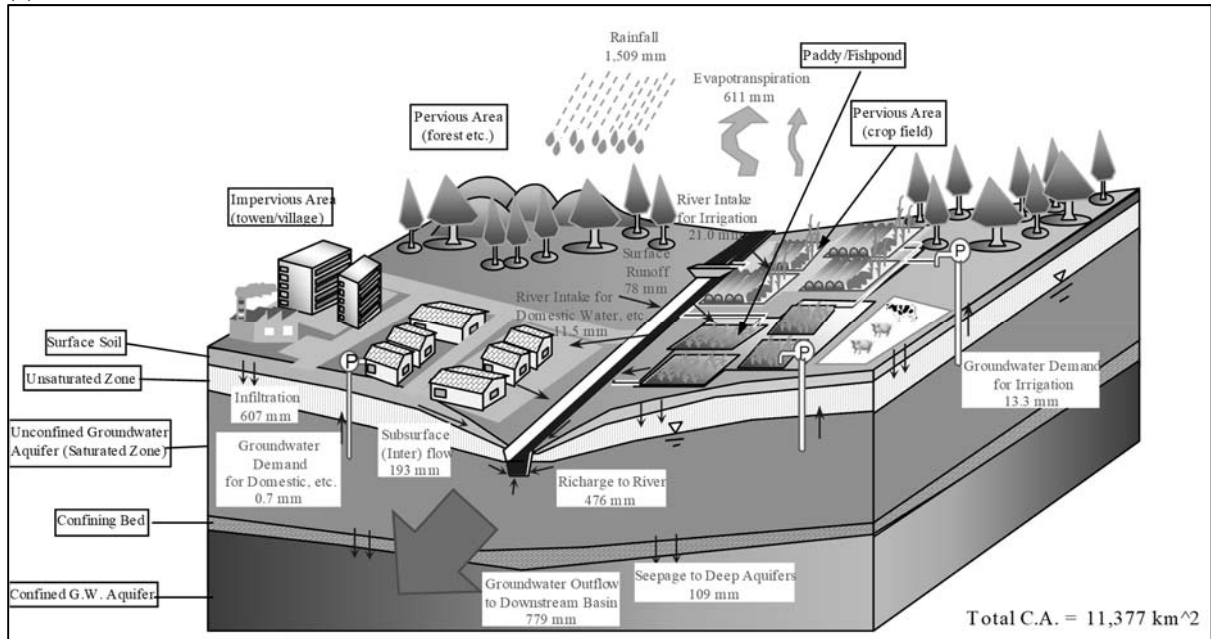
(4) Dong Nai River Basin

No.	Sub-basin	Catchment Area km ²	Surface Water Potential (10 ⁶ m ³ /y)	Water Demand for Surface Water						Total		Water Balance (Water Shortage) (10 ⁶ m ³ /y)
				Domestic	Industrial	Live Stock	Fishery	Agriculture	(10 ⁶ m ³ /y)	(mm/y)		
1	DN01	347	101	0.17	0.03	0.13	0.00	33.60	33.93	97.88	-10.49	
2	DN02	321	70	0.30	0.05	0.07	0.00	15.74	16.15	50.29	-1.00	
3	DN03	491	380	0.39	0.08	0.19	0.00	28.86	29.51	60.06	0.00	
4	DN04	477	2	0.06	0.01	0.07	0.00	0.00	0.14	0.28	0.00	
5	DN05	763	14	0.38	0.05	0.15	0.00	0.78	1.36	1.78	0.00	
6	DN06	251	6	0.78	0.15	0.19	0.00	0.00	1.12	4.45	0.00	
7	DN07	699	226	0.54	0.23	0.11	0.00	31.86	32.75	46.82	-0.21	
8	DN08	181	6	0.04	0.02	0.02	0.00	4.50	4.59	25.33	-1.96	
9	DN09	382	21	1.30	0.26	0.24	0.00	0.00	1.79	4.69	0.00	
10	DN10	180	147	0.27	0.20	0.03	0.00	2.18	2.68	14.92	0.00	
11	DN11	686	6	1.20	0.26	0.25	0.00	0.00	1.71	2.49	0.00	
12	DN12	549	66	0.41	0.22	0.09	0.00	1.25	1.97	3.59	0.00	
13	DN13	474	57	0.09	0.01	0.04	0.00	0.00	0.14	0.30	0.00	
14	DN14	711	166	0.09	0.01	0.04	0.00	0.00	0.14	0.20	0.00	
15	DN15	547	19	0.38	0.21	0.27	0.00	0.00	0.86	1.57	0.00	
16	DN16	444	6	0.72	0.39	0.17	0.00	0.00	1.29	2.90	0.00	
17	DN17	709	19	1.12	0.18	0.24	0.00	0.00	1.53	2.16	0.00	
18	DN18	463	2	0.42	0.11	0.05	0.00	0.00	0.59	1.28	0.00	
19	DN19	249	307	0.19	0.03	0.26	0.00	0.00	0.48	1.93	0.00	
20	DN20	312	32	0.08	0.02	0.02	0.00	0.00	0.12	0.38	0.00	
	Total	9236	1654	9	2	3	0	119	133	323	-13.7	

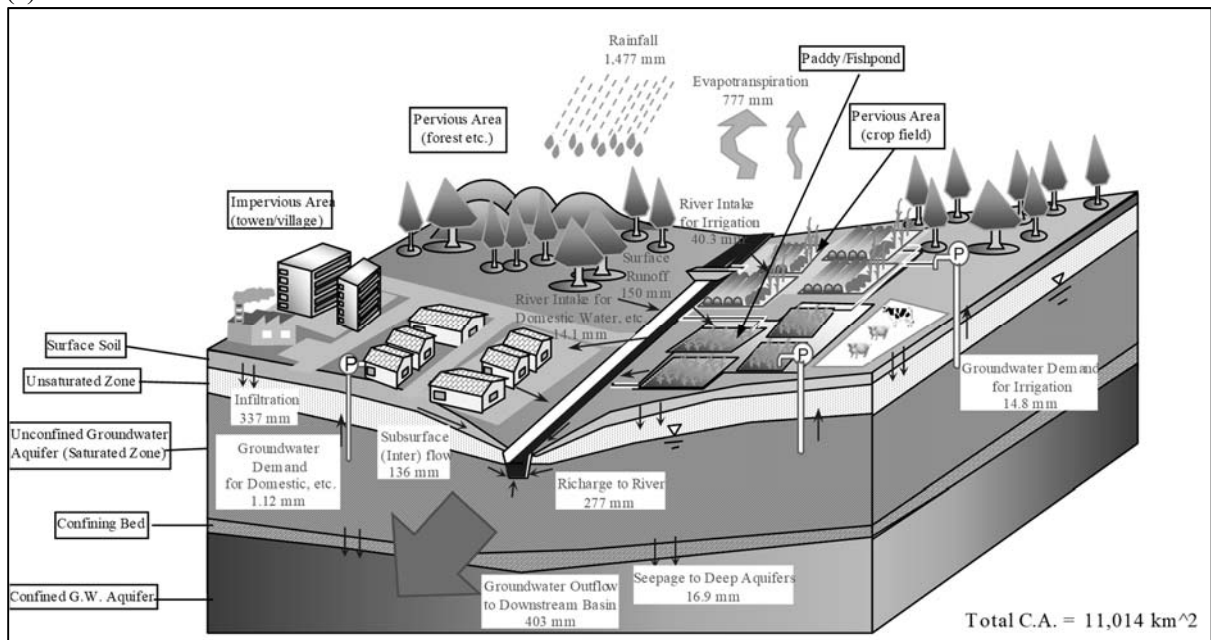
Source: JICA Study Team

AP 4.2.7 Results of Water Balance Study in 2015/16

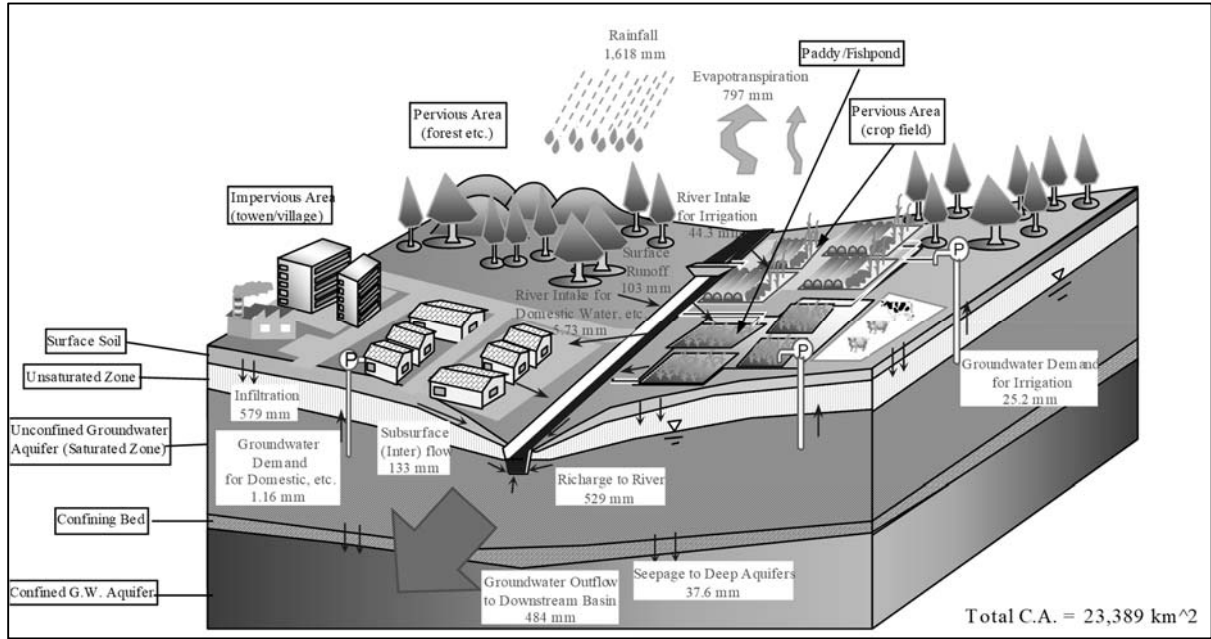
(1) Se San River Basin



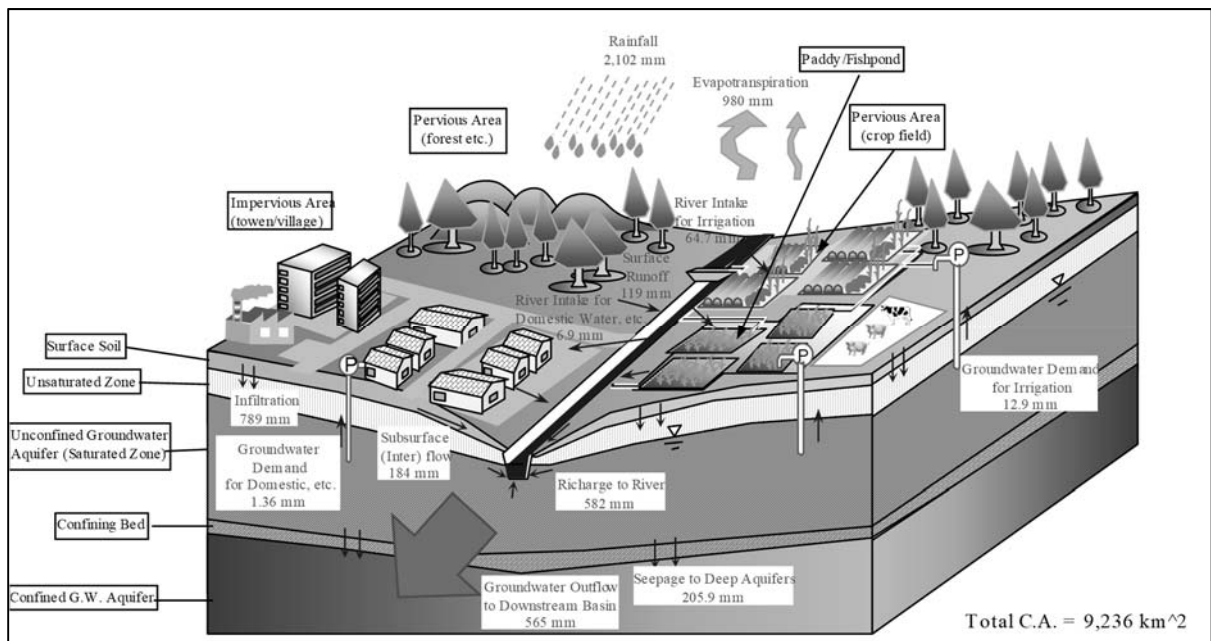
(2) Ba River Basin



(3) Srepok River Basin



(4) Dong Nai River Basin



Source : JICA Study Team

AP 4.3.1 Surface Water Availability in Dry Year

(unit: million m3)

Dry Year: 2015/16		Dry Year: 1994/95		Dry Year: 2012/13		Dry Year: 2011/12	
Sub-Basin	Se San	Sub-Basin	Ba	Sub-Basin	Srepok	Sub-Basin	Dong Nai
SS01	645	Ba01	354	SP01	1,051	DN01	616
SS02	326	Ba02	207	SP02	1,023	DN02	526
SS03	495	Ba03-1	0	SP03	1,029	DN03	1,853
SS04	1,229	Ba03	222	SP04	970	DN04	414
SS05	1,706	Ba04	548	SP05	914	DN05	448
SS06	246	Ba05	111	SP06	3,358	DN06	401
SS07	253	Ba06	551	SP07	582	DN07	5,225
SS08	292	Ba07	185	SP08	895	DN08	2,432
SS09	4,119	Ba08	285	SP09	194	DN09	317
SS10	48	Ba09	123	SP10	434	DN10	1,836
SS11	345	Ba10	393	SP11	7,114	DN11	402
SS12	4,103	Ba11	558	SP12	345	DN12	1,088
SS13	703	Ba12	1,915	SP13	293	DN13	5,284
SS14	289	Ba13	1,849	SP14	4,144	DN14	5,774
SS15	4,317	Ba14	122	SP15	648	DN15	731
SS16	411	Ba15	3,122	SP16	3,292	DN16	748
SS17	287	Ba16	3,441	SP17	390	DN17	1,187
SS18	4,514	Ba17	3,640	SP18	4,134	DN18	226
SS19	255	Ba18	0	SP19	3,824	DN19	1,261
SS20	439	Ba19	87	SP20	3,150	DN20	547
SS21	5,162	Ba20	124	SP21	1,126		
SS22	210	Ba21	415	SP22	176		
				SP23	3,281		
				SP24	481		
				SP25	1,321		
				SP26	897		
				SP27	565		
				SP28	2,284		
				SP29	811		
Total	5,162	Total	3,640	Total	11,689	Total	5,774

Source: JICA Study Team

AP 4.3.2 Groundwater Availability in Dry Year

(unit: million m3)

Dry Year: 2015/16		Dry Year: 1994/95		Dry Year: 2012/13		Dry Year: 2015/16	
Sub-Basin	Se San	Sub-Basin	Ba	Sub-Basin	Srepok	Sub-Basin	Dong Nai
SS01	15.7	Ba01	3.4	SP01	140.5	DN01	100.7
SS02	5.0	Ba02	6.0	SP02	223.0	DN02	69.6
SS03	12.2	Ba03-1		SP03	78.3	DN03	380.2
SS04	46.1	Ba03	9.5	SP04	631.8	DN04	2.4
SS05	150.0	Ba04	32.2	SP05	352.3	DN05	13.6
SS06	5.0	Ba05	70.9	SP06	1,081.3	DN06	6.4
SS07	10.2	Ba06	55.3	SP07	95.5	DN07	226.4
SS08	5.7	Ba07	77.9	SP08	38.5	DN08	5.8
SS09	499.3	Ba08	104.9	SP09	4.4	DN09	21.2
SS10	0.5	Ba09	0.3	SP10	64.4	DN10	147.3
SS11	14.6	Ba10	104.9	SP11	215.2	DN11	5.7
SS12	374.7	Ba11	134.1	SP12	15.5	DN12	65.6
SS13	54.4	Ba12	74.2	SP13	3.6	DN13	57.4
SS14	32.6	Ba13	256.9	SP14	273.5	DN14	166.4
SS15	354.9	Ba14	29.7	SP15	52.2	DN15	19.1
SS16	33.6	Ba15	267.4	SP16	179.3	DN16	6.2
SS17	54.9	Ba16	281.5	SP17	54.0	DN17	18.7
SS18	310.1	Ba17	328.2	SP18	126.8	DN18	2.0
SS19	24.9	Ba18		SP19	55.7	DN19	307.3
SS20	22.6	Ba19	1.3	SP20	476.2	DN20	31.8
SS21	693.3	Ba20	15.0	SP21	95.7		
SS22	12.9	Ba21	9.8	SP22	7.8		
				SP23	345.5		
				SP24	10.6		
				SP25	306.5		
				SP26	18.3		
				SP27	4.4		
				SP28	263.5		
				SP29	90.1		
Total	2,733.1	Total	1,863.4	Total	5,304.6	Total	1,653.9

Source: JICA Study Team

AP 4.3.3 Surface Water Availability in Wet Year

(unit: million m3)

Wet Year: 2005/06		Wet Year: 1986/87		Wet Year: 1988/89		Wet Year: 2007/08	
Sub-Basin	Se San	Sub-Basin	Ba	Sub-Basin	Srepok	Sub-Basin	Dong Nai
SS01	854	Ba01	82	SP01	1,201	DN01	670
SS02	562	Ba02	253	SP02	1,171	DN02	633
SS03	984	Ba03-1	0	SP03	1,224	DN03	2,164
SS04	1,994	Ba03	260	SP04	1,155	DN04	702
SS05	3,019	Ba04	331	SP05	1,063	DN05	929
SS06	449	Ba05	232	SP06	3,674	DN06	693
SS07	377	Ba06	595	SP07	356	DN07	7,312
SS08	670	Ba07	247	SP08	575	DN08	3,912
SS09	7,096	Ba08	305	SP09	142	DN09	497
SS10	104	Ba09	371	SP10	268	DN10	3,247
SS11	625	Ba10	1,216	SP11	9,998	DN11	943
SS12	7,129	Ba11	1,454	SP12	347	DN12	2,519
SS13	1,505	Ba12	2,197	SP13	270	DN13	8,090
SS14	667	Ba13	2,155	SP14	7,318	DN14	8,848
SS15	7,740	Ba14	189	SP15	647	DN15	1,149
SS16	572	Ba15	4,629	SP16	6,267	DN16	1,053
SS17	665	Ba16	5,179	SP17	678	DN17	2,303
SS18	8,000	Ba17	5,495	SP18	7,141	DN18	302
SS19	569	Ba18	0	SP19	7,000	DN19	1,750
SS20	595	Ba19	131	SP20	6,499	DN20	739
SS21	9,056	Ba20	205	SP21	2,253		
SS22	335	Ba21	719	SP22	278		
				SP23	6,615		
				SP24	847		
				SP25	2,714		
				SP26	1,475		
				SP27	750		
				SP28	3,668		
				SP29	1,063		
Total	9,056	Total	5,495	Total	14,984	Total	8,848

Source: JICA Study Team

AP 4.3.4 Groundwater Availability in Wet Year

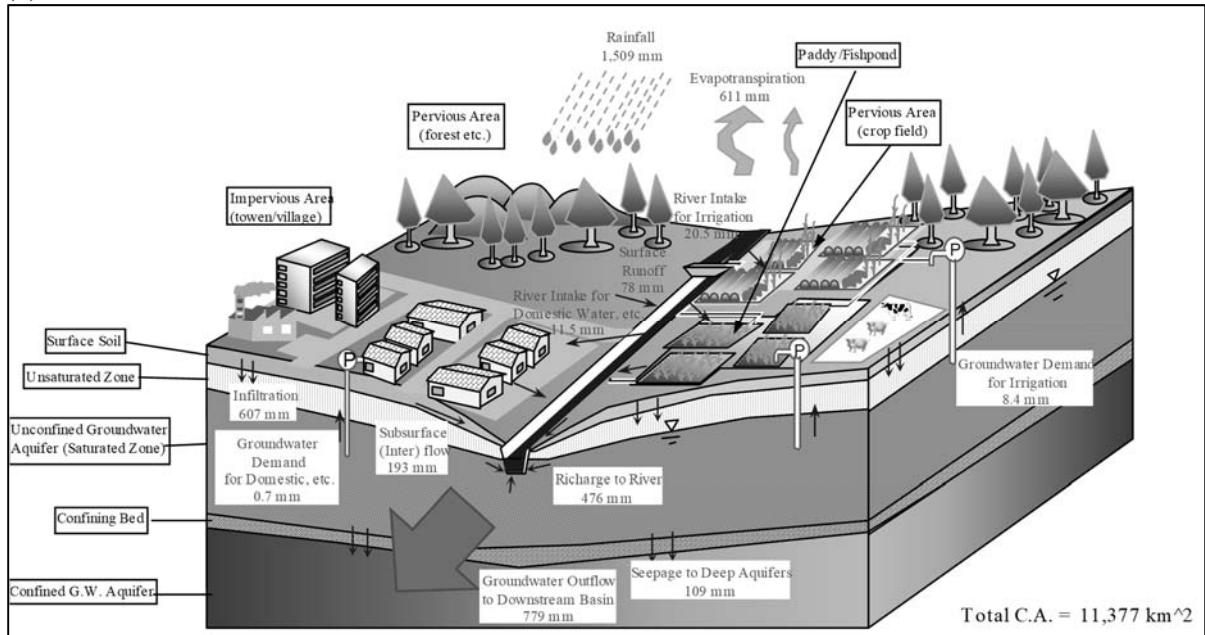
(unit: million m3)

Wet Year: 2005/06		Wet Year: 1986/87		Wet Year: 1988/89		Wet Year: 2007/08	
Sub-Basin	Se San	Sub-Basin	Ba	Sub-Basin	Srepok	Sub-Basin	Dong Nai
SS01	9.0	Ba01	4.6	SP01	108.1	DN01	100.5
SS02	6.3	Ba02	26.3	SP02	185.9	DN02	89.6
SS03	12.3	Ba03-1		SP03	68.5	DN03	463.6
SS04	45.1	Ba03	14.8	SP04	451.2	DN04	5.4
SS05	226.4	Ba04	86.3	SP05	231.8	DN05	22.2
SS06	5.1	Ba05	159.9	SP06	625.9	DN06	14.2
SS07	29.3	Ba06	76.9	SP07	43.4	DN07	385.3
SS08	11.9	Ba07	112.1	SP08	2.9	DN08	16.6
SS09	874.7	Ba08	204.4	SP09	4.1	DN09	41.1
SS10	1.2	Ba09	0.9	SP10	21.9	DN10	224.9
SS11	33.5	Ba10	204.4	SP11	124.6	DN11	11.0
SS12	661.4	Ba11	209.9	SP12	7.9	DN12	107.9
SS13	136.3	Ba12	119.8	SP13	0.5	DN13	283.1
SS14	23.2	Ba13	347.6	SP14	141.2	DN14	463.8
SS15	667.3	Ba14	45.5	SP15	19.6	DN15	37.4
SS16	23.4	Ba15	236.5	SP16	112.0	DN16	6.9
SS17	19.1	Ba16	181.6	SP17	54.2	DN17	36.3
SS18	499.0	Ba17	249.6	SP18	80.5	DN18	2.9
SS19	11.3	Ba18		SP19	36.3	DN19	733.3
SS20	12.6	Ba19	3.7	SP20	683.8	DN20	41.1
SS21	888.5	Ba20	52.0	SP21	86.7		
SS22	9.0	Ba21	31.9	SP22	4.5		
				SP23	586.2		
				SP24	4.3		
				SP25	510.7		
				SP26	15.5		
				SP27	5.5		
				SP28	354.6		
				SP29	100.3		
Total	4,206.0	Total	2,368.8	Total	4,672.4	Total	3,087.1

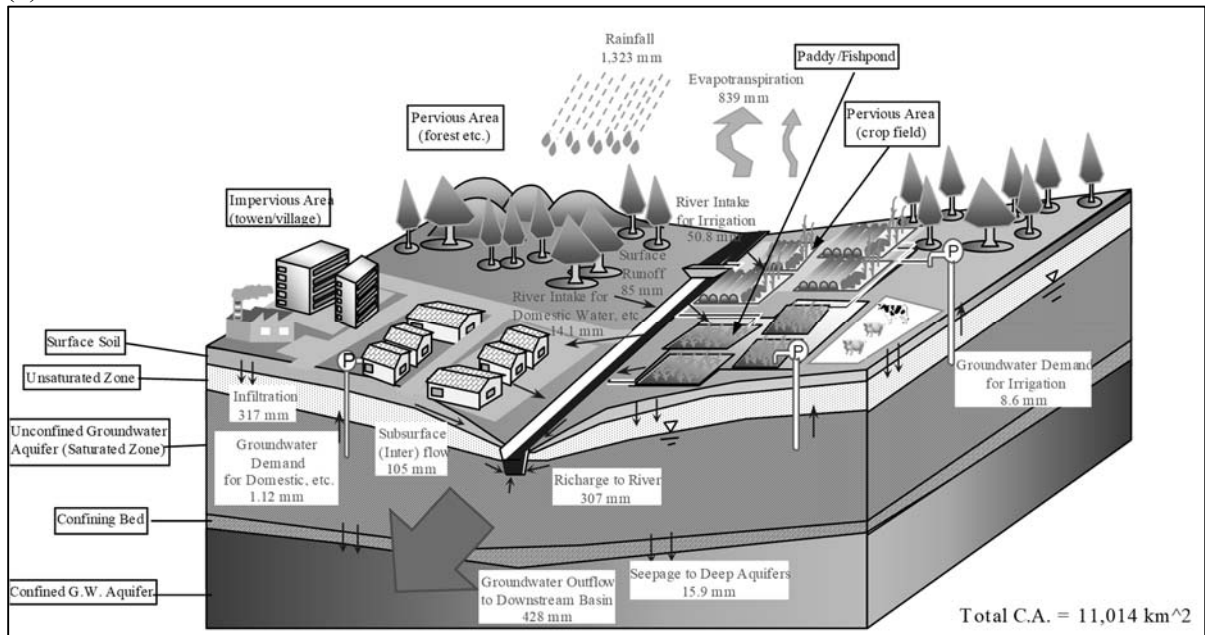
Source: JICA Study Team

AP 4.3.5 Results of Water Balance Study in Dry Year

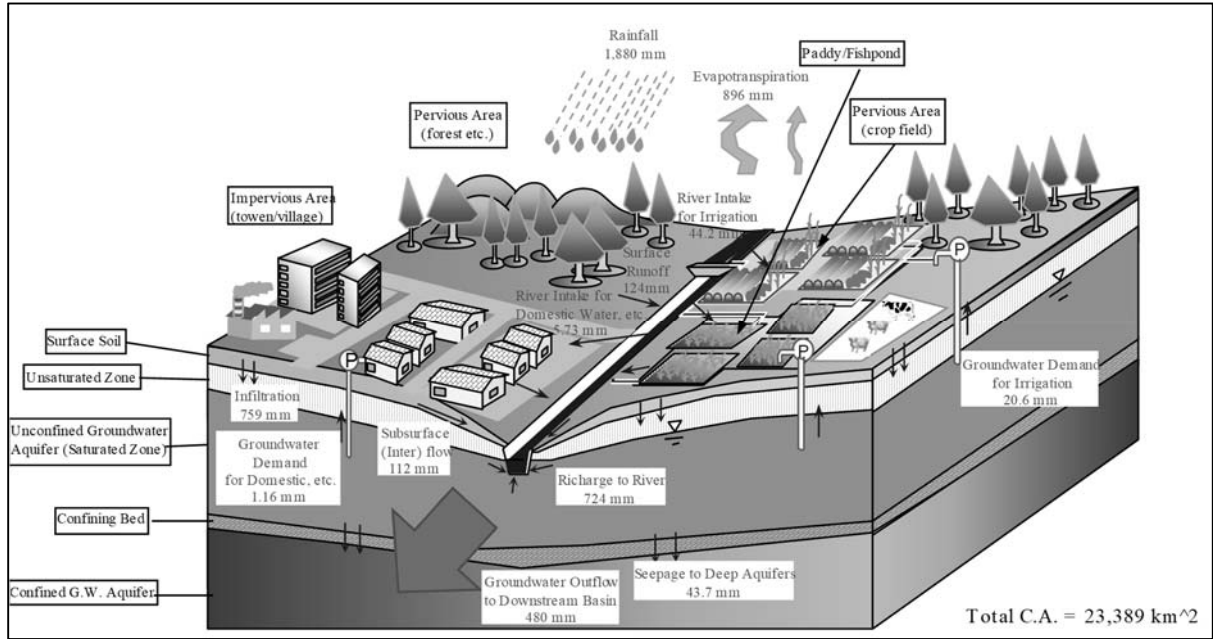
(1) Se San River Basin



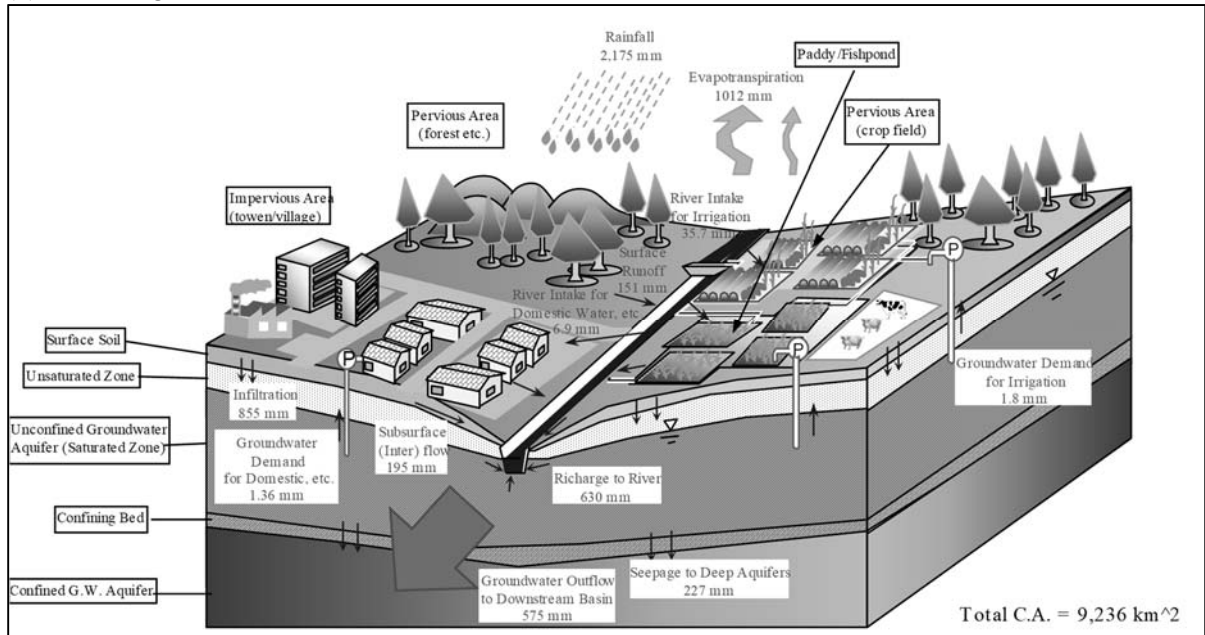
(2) Ba River Basin



(3) Srepok River Basin



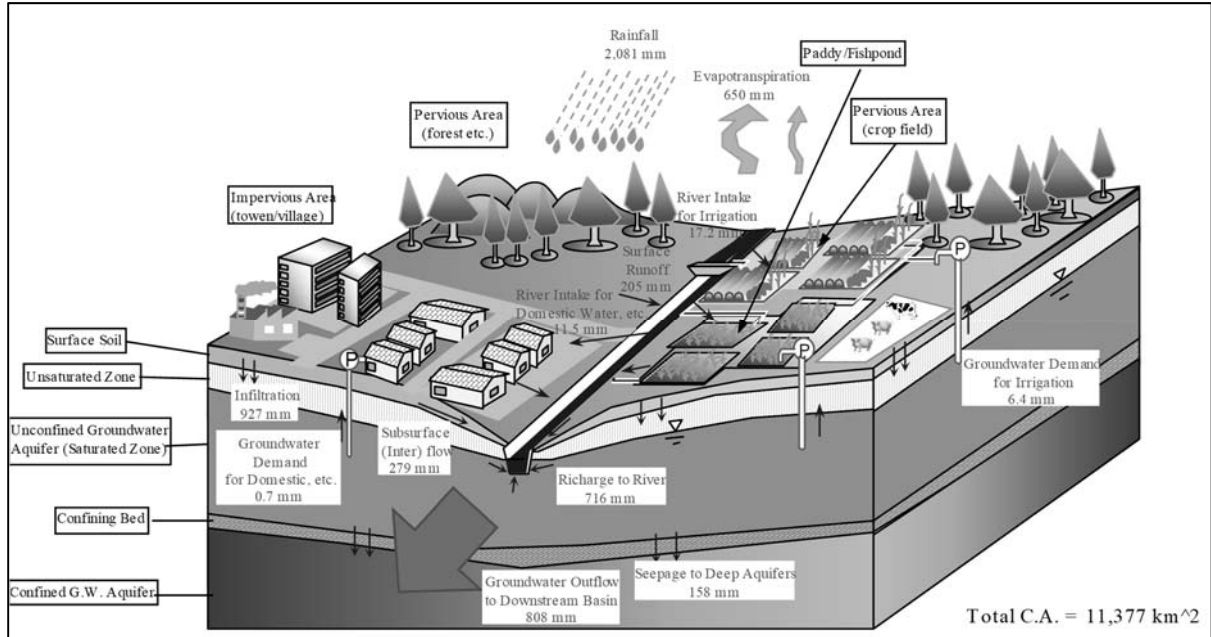
(4) Dong Nai River Basin



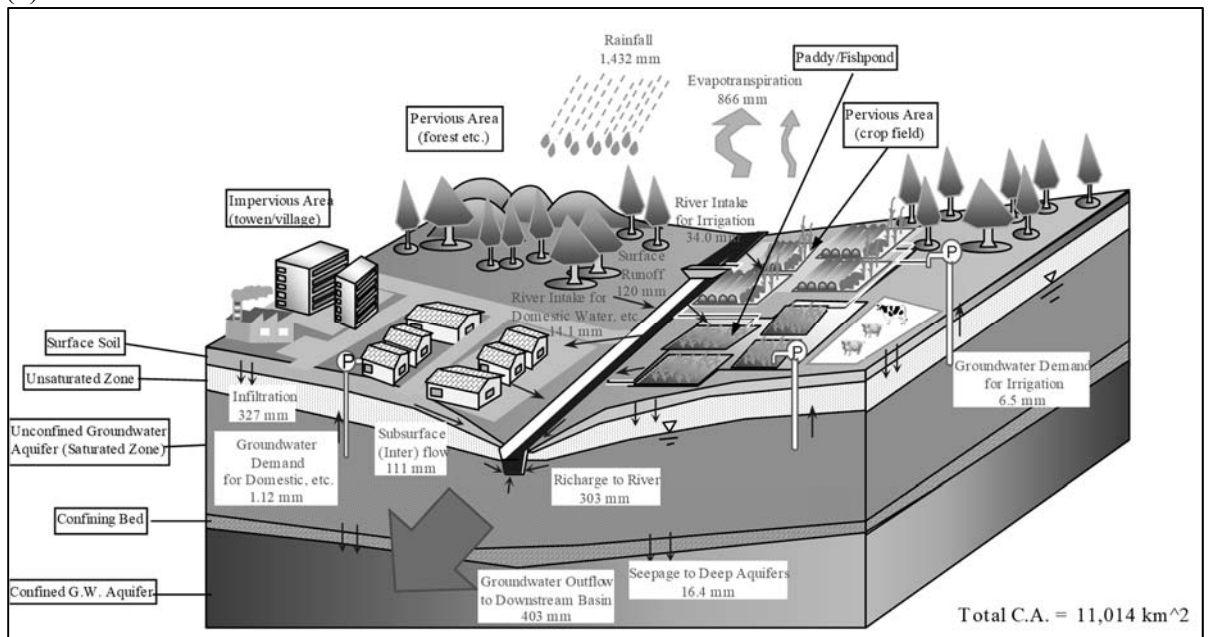
Source: JICA Study Team

AP 4.3.6 Results of Water Balance Study in Wet Year

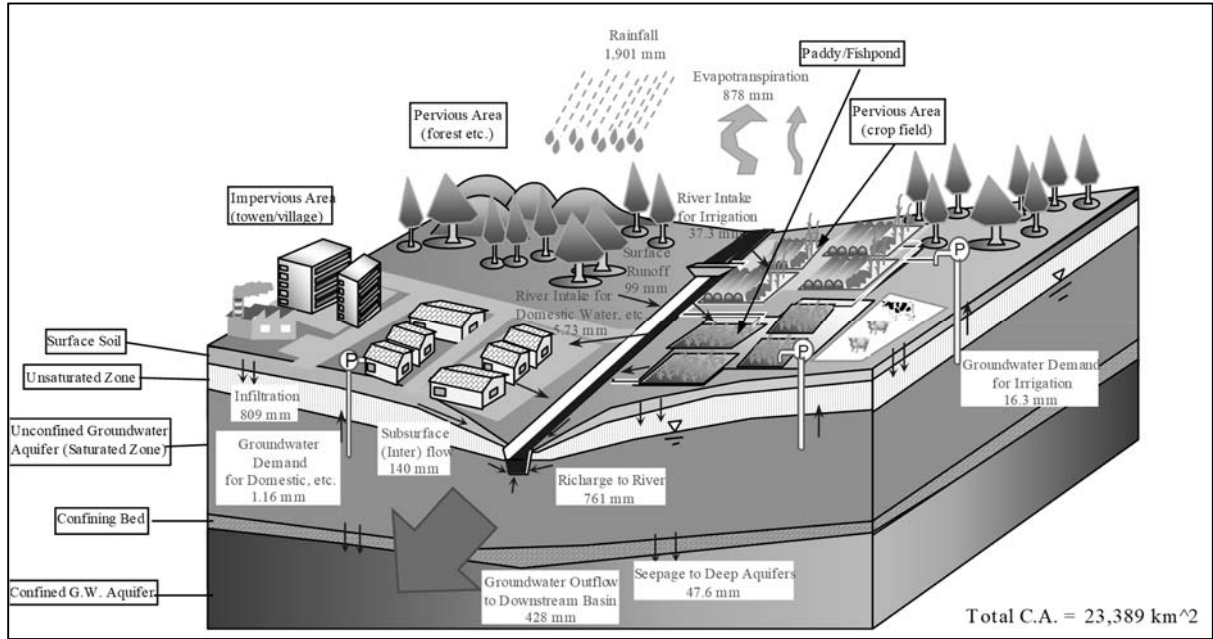
(1) Se San River Basin



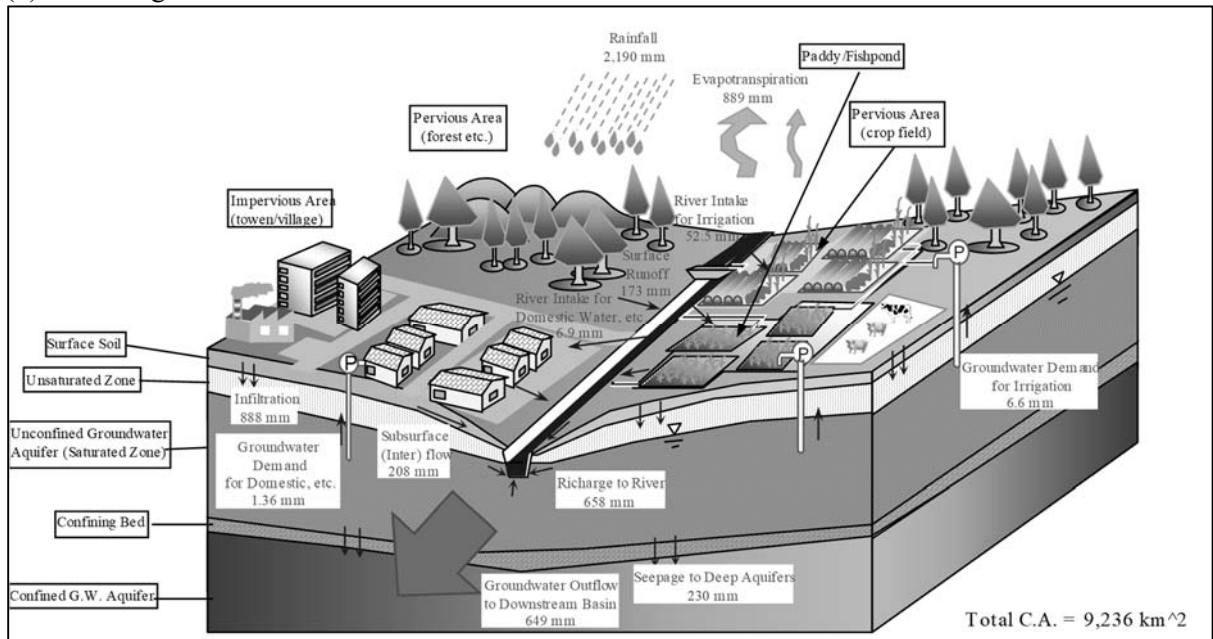
(2) Ba River Basin



(3) Srepok River Basin



(4) Dong Nai River Basin



Source: JICA Study Team

AP 5.2.1 List of Other Priority Projects in Central Highlands

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
39 - Kon Tum Province								
I	Road & Bridge							
A	National Highway							
1	New construction Expressway Bờ Y - Ngoc Hoi - Pleiku	Kon Tum, Gia Lai		Design speed: 100km/h; width of carriage way: 22.5m 6 lane road	2020-2025	13,200,000	PPP	Conceptual Plan
2	New construction Ho Chi Minh road, section Kon Tum city by-pass	Kon Tum city		Length 23 km, class III-IV	2016 - 2020	6,600,000	National Budget	Conceptual Plan
3	Upgrading NH. 40	Ngoc Hoi	Bo Y	Length 6.575km (section Km 13+900 - Dak Koi border gate), class III-mountain area	2016 - 2020	190,000	National Budget	Conceptual Plan
4	Upgrading and widening NH.40B	Tu Mo Rong, Dak To		- Section1: 3.7 km, from DR.53 to NT18 (Bo Y border gate), class IV-mountain area; - Section2: 61.67 km, class IV-mountain area; - Section3: 14.5 km (DR.53), class IV-mountain area; - Section4: 11.3 km (NT18), class III-mountain area.	2016 - 2020	1,352,000	National Budget	Conceptual Plan
5	Upgrading and widening NH.24D	Kon Plong		Upgrading and widening 65 km existing road, class IV-mountain area	2016 - 2020	839,000	National Budget	Conceptual Plan
6	Upgrading and widening NH.14C	la H'Grai, Sa Thay, Ngoc Hoi		Length 106.8km existing road, class IV-mountain area	2016 - 2020	471,000	National Budget	Conceptual Plan
7	Upgrading, widening and new construction NH. 24	Kon Tum city, Kon Ray, Kon Plong		- New construction section1: Length 2,3km from Cha Mon bridge (Km164+730) to Đăk Cám, class IV-mountain area; - Upgrading and widening section2: Length 57.11km from Đăk Cám PPC to NH.14C, class IV-mountain area	2016 - 2020	765,000	National Budget	Conceptual Plan
8	Upgrading, widening and new construction NH.24E	Sa Thay, la H'Drai		- New construction 70 km from Sê San 3A power plant to NH.14C to Ho Da border gate, class V-mountain area; - Upgrading and widening 37.1 km existing road from Sa Thay town to Sê San 3A power plant, class V-mountain area	2016 - 2020	1,043,000	National Budget	Conceptual Plan
B	Provincial Road							
1	Upgrading and widening PR.671	Dak Ha, Kon Tum city		- Section1: Upgrading 34.6km existing road from Dak Ha town to Dak Cam PPC, class-mountain area; - Section2: Upgrading 11,5km existing road from Le Loi ward/Kon Tum to Pley Wel village, class IV-mountain area; - Section3: Upgrading 9.3km from Kon Klor bridge to HCM road, class IV-mountain area	2016 - 2020	881,000	Provincial Budget	Conceptual Plan
2	New construction and upgrading PR.672	Dak To, TuMoRong		- Section 1: New construction 47.66km class-mountain area; - Section 2: Upgrading 25.24km existing road, class IV-mountain area	2016 - 2020	1,270,000	Provincial Budget	Conceptual Plan
3	New construction PR.677A	Dak Ha, TuMoRong		New construction 16 km from village No.10/Dak Psi commune (Dak Ha) to Dak Ha/TuMoRng, class V-mountain area;	2016 - 2020	224,000	Provincial Budget	Conceptual Plan
4	New construction and upgrading PR.678	Dak Glei, TuMo Rong		- New construction 27.6km from Dak Na commune to Dak Long border gate, meeting class IV-mountain area. - Upgrading and widening 45.8km existing road, class IV-mountain area	2016 - 2020	323,000	Provincial Budget	Conceptual Plan
5	New construction PR.680	Dak Ha, Kon Plong		New construction 55km road from Ngoc Reo commune/Dak Ha (PR.671A) to Truong Son Dong road (Mang Canh commune/Kon Plong, class IV-mountain area	2016 - 2020	1,396,000	Provincial Budget	Conceptual Plan
6	Repairing surface layer of PR673 section Km14+000-Km18+000; Km33+455 - Km36+527	Dak Glei		L=7.1km; Class: V - mountain area; Width=3.5/6.5m; Cement concrete pavement	2016-2020	20,000	Provincial Budget	DD
7	Repairing embankment and surface of provincial road 676 section from Km32+000-Km53+700, Kon Plong district	Kon Plong		L=21.7km; Class: V - mountain area; Width=3.5/6.5m; Cement concrete pavement	2016-2020	25,000	Provincial Budget	DD
8	Upgrading, Innovating provincial road 675 (Km40+500 - Km53+090), Sa Thay District	Sa Thay		L=12.59km; Class: V - mountain area; Design speed 30km/h; Width=3.5/6.5m; Cement concrete pavement	2016-2020	51,000	National Budget	DD
9	Solidified fating damaged cement-concrete sections and Reinforcing sidewalk at sections Km13+800 - Km14+000; Km15+100 - Km19+000 of provincial road 678 in Tu Mo Rong District	Tu Mo Rong		L=4.1km; Class: V - mountain area; Width=3.5/6.5m; Cement concrete pavement	2016-2020	9,000	Provincial Budget	DD
10	Upgrade PR675A of border area development project	la H'Drai		L=58km; Class: IV - mountain area; Width=5.5/7.5m; Design speed: 40km/h	2017-2022	556,556	National + Provincial Budget	FS
11	Reinforcing slope, repairing surface layer and associated Works of PR.671 section through Dak Ha district and Kon Tum city	Dak Ha, Kon Tum City		L=24km; Class: V - mountain area; Width=3.5/6.5m; Asphalt concrete pavement	2016-2020	13,500	Provincial Budget	DD
C	District Road							
1	New construction planned road DR.05	Kon Tum city		New construction 21km, main urban road - Kon Tum city Western ring road	2016 - 2020	193,200	Provincial Budget	Conceptual Plan
2	New construction planned road DR.08	Kon Tum city	la Chim	New construction 10km mountain road, class V from PR.671 (Plei Lay village/la Chim commune) to NH.QL24-new road (Km11+450 - PR.675 old road);	2016 - 2020	92,000	Provincial Budget	Conceptual Plan
3	New construction planned road DR.18B	Sa Thay		New construction 32km, class IV, from PR.675A to NH.14C;	2016 - 2020	294,400	Provincial Budget	Conceptual Plan
4	New construction planned road DR.10A	la Grai		New construction 43.9 km, from NH.14C (Km62) to Trường Thành bridge - border patrol road;	2016 - 2020	403,900	Provincial Budget	Conceptual Plan
5	New construction planned road DR.10B	la Grai		New construction 7.9 km, from la H'Drai administrator area to border patrol road;	2016 - 2020	72,700	Provincial Budget	Conceptual Plan
6	New construction planned road DR.10C	la Grai		New construction 11.6km, from la H'Drai administrator area to PR.675A (Km 58+800);	2016 - 2020	106,700	Provincial Budget	Conceptual Plan
7	New construction planned road DR.49	Kon Ray, Dak Ha	Đăk La	New construction 13km, from HCM road (Đăk La commune, Đăk Hà district) to Đăk Hà 's boundary (Kon Ray district);	2016 - 2020	119,600	Provincial Budget	Conceptual Plan
8	New construction planned road DR.25A	Kon Ray		New construction 9km, from NH.24 (Km153+100) to Kon Rây's boundary (Dak Ha district) extension of DR.49 Đăk Hà district;	2016 - 2020	82,800	Provincial Budget	Conceptual Plan
9	Bridge over Dak Bla river (from Vinh Quang commune to Doan Ket commune, Kon tum city) - - Bridge No.2	Kon Tum City	Vinh Quang, Doan Ket	L=330m, width = 12m; 8 spans, super T, concrete	2016-2020	99,979	Provincial Budget	FS

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
10	Bridge over Dak Bla river (from Thang Loi ward to Đắk Rơ Wa commune, Kon Tum city) - Bridge No.1	Kon Tum City		L=250.4m, width = 12m; 6 spans, super T, concrete	2016-2020	96,088	Provincial Budget	FS
11	Upgrading Dien Bien Phu road, Sa Thay town	Sa Thay	Sa Thay town	Class: Urban main Road; Width =10.5/22.5m; asphalt concrete pavement	2017	121,860	N/A	Under construction
12	Repairing surface layer of resident resettlement road of Plei Krong Hydraulic power Plant, section from Km0+000 - Km5+000 in Sa Thay District	Sa Thay		L=5km; Class: V - mountain area; Width=3.5/6.5m; Cement concrete pavement	2016-2020	9,000	Provincial Budget	DD
13	Road from Sông Thanh 663 border guard station to Đắk Blô commune	Dak Glei		L=11.4km, class V-mountain area, BPM pavement	2015-2017	87,944	Government Budget	Under construction
II Irrigation								
1	Upgrading Cà Tiên reservoir	Kon Tum city	Đoàn Kết	Service area, S= 35ha	2016 - 2025	45,000	Provincial Budget	Conceptual Plan
2	Upgrading Mãng La Pumping	Kon Tum city	Ngọc Bay	Service area, S= 75ha	2016 - 2025	5,519	Provincial Budget	Conceptual Plan
3	Upgrading Đắk Cầm Dam	Kon Tum city	Đắk Cầm	Service area, S= 424ha	2016 - 2025	47,500	Provincial Budget	Conceptual Plan
4	Upgrading village No. 18 Dam	Kon Tum city	Kroong	Service area, S= 26ha	2016 - 2025	25,000	Provincial Budget	Conceptual Plan
5	Upgrading Đắk Phát 1,2 reservoir	Kon Tum city	Kroong	Service area, S= 15ha	2016 - 2025	7,000	Provincial Budget	Conceptual Plan
6	Upgrading Đắk Hơ Niêng reservoir	Ngọc Hôi	Bờ Y	Service area, S= 360ha	2016 - 2025	14,700	Provincial Budget	Conceptual Plan
7	Upgrading Đắk Long Dam	Ngọc Hôi	Sa Long	Service area, S= 168ha	2016 - 2025	5,000	Provincial Budget	Conceptual Plan
8	Upgrading Cà Ha Dam	Đắk Hà	Đắk La	Service area, S= 56ha	2016 - 2025	5,000	Provincial Budget	Conceptual Plan
9	Upgrading Đắk Kăm reservoir	Đắk Hà	Đắk La	Service area, S= 23ha	2016 - 2025	20,000	Provincial Budget	Conceptual Plan
10	Upgrading Đắk Vét Dam	Đắk Hà	Đắk Pxi	Service area, S= 130ha	2016 - 2025	13,000	Provincial Budget	Conceptual Plan
11	Upgrading Kon Bưởi Dam	Đắk Hà	Ngọc Réo	Service area, S= 95ha	2016 - 2025	9,500	Provincial Budget	Conceptual Plan
12	Upgrading Kon Rê Dam	Đắk Hà	Ngọc Wang	Service area, S= 190ha	2016 - 2025	19,000	Provincial Budget	Conceptual Plan
13	Upgrading village No. 7 reservoir	Đắk Hà	Đắk Hring	Service area, S= 680ha	2016 - 2025	68,000	Provincial Budget	Conceptual Plan
14	Upgrading Đắk Po II reservoir	Kon Rẫy	Đắk Pnê	Service area, S= 120ha	2016 - 2025	12,000	Provincial Budget	Conceptual Plan
15	Upgrading Rơ reservoir	Kon Rẫy	Tân Lập	Service area, S= 45ha	2016 - 2025	7,000	Provincial Budget	Conceptual Plan
16	Upgrading Đắk Kar Dam	Sa Thầy	Rờ Côi	Service area, S= 84ha	2016 - 2025	40,000	Provincial Budget	Conceptual Plan
17	Upgrading Đắk B Lô Dam	Đắk Tô	Diễn Bình	Service area, S= 90ha	2016 - 2025	5,000	Provincial Budget	Conceptual Plan
18	Upgrading Đắk B Lô Dam	Tu Mơ Rông	Đắk Rơ Ong	Service area, S= 90ha	2016 - 2025	5,000	Provincial Budget	Conceptual Plan
19	Upgrading Đắk Hnia reservoir	Tu Mơ Rông	Đắk Tô Kan	Service area, S= 220ha	2016 - 2025	9,823	Provincial Budget	Conceptual Plan
20	New construction Đắk Sing I irrigation system	Đắk Tô	Văn Lem	Service area, S= 90ha	2016 - 2025	9,000	Provincial Budget	Conceptual Plan
21	New construction Dục Lang irrigation system	Đắk Glei	Đắk Long	Service area, S= 344ha	2016 - 2025	34,400	Provincial Budget	Conceptual Plan
22	New constructionĐắk Plô III irrigation system	Đắk Glei	Đắk Plô	Service area, S= 180ha	2016 - 2025	18,000	Provincial Budget	Conceptual Plan
23	New construction Đắk Rùi irrigation system	Đắk Glei	Xốp	Service area, S= 316ha	2016 - 2025	31,600	Provincial Budget	Conceptual Plan
24	New construction Đắk Brôi irrigation system	Đắk Glei	Đắk Roong	Service area, S= 110ha	2016 - 2025	11,000	Provincial Budget	Conceptual Plan
25	New construction Đắk Môm irrigation system	Đắk Glei	Mường Hoang	Service area, S= 90ha	2016 - 2025	9,000	Provincial Budget	Conceptual Plan
26	New construction Ya Lon irrigation system	Sa Thầy	Mô Ray	Service area, S= 514ha	2016 - 2025	51,400	Provincial Budget	Conceptual Plan
27	New construction Kon Cheng irrigation system	Kon Plong	Mãng Cảnh	Service area, S= 70ha	2016 - 2025	7,000	Provincial Budget	Conceptual Plan
28	New construction Kon Bưởi 3 irrigation system	Kon Plong	Đắk Long	Service area, S= 180ha	2016 - 2025	18,000	Provincial Budget	Conceptual Plan
29	New construction Kon Bring 2 irrigation system	Kon Plong	Đắk Long	Service area, S= 70ha	2016 - 2025	7,000	Provincial Budget	Conceptual Plan
30	New construction Mãng Bút I irrigation system	Kon Plong	Mãng Bút	Service area, S= 196ha	2016 - 2025	19,600	Provincial Budget	Conceptual Plan
31	New construction Nam Voo I irrigation system	Kon Plong	Đắk Nền	Service area, S= 160ha	2016 - 2025	16,000	Provincial Budget	Conceptual Plan
32	New construction Đắk Rơ Nét irrigation system	Đắk Glei	Đắk Choong	Service area, S= 270ha	2016 - 2025	27,000	Provincial Budget	Conceptual Plan
33	New construction Đắk Long I irrigation system	Ngọc Hôi	Sa Loong	Service area, S= 260ha	2016 - 2025	26,000	Provincial Budget	Conceptual Plan
34	Expanding Vinh Quang pumping station to ensure irrigation for Ca Tien field investment project	Kon Tum City	Vinh Quang	Service area 35 ha	2017	15,008	Provincial Budget	FS
35	Solidification main canal, Grade I canal and Works on the Grade I canal of Dak Ron Ga reservoir Works	Dak To	Tan Canh	Service area: 856ha (210.2ha paddy, 645.8ha industrial plant). Main canal: 3.617m, 08 branches: 7.198m, 03 bridges and 07 culverts;	2017	39,900	Provincial Budget	DD
36	Dak Lieng irrigation	Kon Plong	Mãng Bút	Upgrading on fram canal system	2018	47,912	Provincial Budget	DD
37	Repairing, upgrading Ba Tri dam, Dak Ha district	Dak Ha		Preparing main dam and distributed canal system	2017	26,400	Provincial Budget	DD
38	Lung village irrigation	Sa Thay	Ya Xier	- Reinforced spillway, L=111m, H=5.5m, inlet and outlet culvert; - Distributed reinforced canal system: main canal, L= 1.077km, 02 conducted canal, L= 8.140km	2016-2020	85,611	Provincial Budget+EVN	Under construction
39	Po Ko river embankment protection, section Đắk Glei town	Dak Glei	Dak Glei town	Total length 4.390m, concrete pile retaining wall structure. 4.0m road and side-walk	2010-2017	93,026	Provincial Budget	Under construction
III Water Supply								
1	New construction domestic water supply for Plei Kân town	Ngọc Hôi	Plei Kân town	- Design capacity at 1st stage: 5000m ³ /day - Design capacity at 2nd stage: 10.000 m ³ /day	Stage 1: 2016-2020; Stage 2: 2020-2025;	77,000	Private source	- Stage1: DD; - Stage2 : F/S
2	Upgrading and widening Kon Tum domestic water system	Kon Tum city		- Pumping station, raw water conducted pile from source to treatment station; - Treatment station; - Distributed pile-line network and related infrastructure; - Beneficiaries: 31.000 people, design cappacity 9.600m ³ /day	2017-2020	130,000	Provincial Budget	F/S
3	Drinking water supplying for Dak ha Town (Item: pipe Grade III network)	Dak Ha	Dak Ha town, Dak Ngoc, Da Ma, Ha Mon	Design capacity: 4.200 m ³ /day; 10km pile line; Beneficiaries: 22.000 persons	2014-2015	19,440	ODA (Jica)	Under construction

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
IV	Electricity Distribution							
1	Medium voltage system	whole province		- Period 2016-2020: + New construction 412.3km and upgrading 344.8km medium voltage line. + New construction 382 transformer stations, design capacity 85.463kVA; upgrading 284 transformer stations, design capacity 23.359kVA. - Period 2021-2025: + New construction 254.5km and upgrading 299km medium voltage line. + New construction 286 transformer stations, total capacity 62.120kVA; upgrading 201 transformer stations, total capacity 18.918kVA.	2016 - 2025	5,784,200	ENV	Conceptual Plan
2	Low voltage system	whole province		- Period 2016-2020: New construction 1395.3km and upgrading 953.8km low voltage network. - Period 2021-2025: New construction 1287.3km and upgrading 826.9km 0.4kV line.	2016 - 2025	1,355,100	Provincial Budget	Conceptual Plan
V.	Disaster and Climate Change Prevention							
1	Đak Bla reservoir	Kon Tum city	Đak Ro Wa	Capacity 30,000,000 m ³	2016 - 2025	525,900	National Budget	Conceptual Plan
2	Discharge canal network at Đak La, Đak Hà commune	Đak Hà	Đak La	Irrigating and discharge to service area 280 ha	2016 - 2025	70,000	National Budget	Conceptual Plan
3	Slope protection of Hnor stream (stage1)	Kon Tum city	Le Loi ward	Slope protection and landslide prevention	2016 - 2025	20,000	National Budget	Conceptual Plan
4	Strengthening right slope of Đak Tô Kan river	Đak Tô	Đak Tô town	Slope protection and landslide prevention	2016 - 2025	82,000	National Budget	Conceptual Plan
5	Strengthening left slope of Đak Tô Kan river	Đak Tô	Đak Tô town	Slope protection and landslide prevention	2016 - 2025	40,000	National Budget	Conceptual Plan
6	Slope protection of resident area (village No.1-7)	Kon Rây	Đak Rve town	Slope protection and landslide prevention	2016 - 2025	120,000	National Budget	Conceptual Plan
VI	Others							
1	Project on development of rural infrastructure for production in the Central Highlands		Entire province	- Reparation and Upgrading Kon Trang, Đak Trit irrigation system and agricultural infrastructure of Đak La commune; - Reparation and upgrading Đak Snghe irrigation system and Tan Lam agricultural infrastructure; - Reparation and upgrading Đak Dam irrigation system;	2014-2018	272,727	ODA (ADB)	Under implementation
2	Investment on infrastructure for land fund development of southern Dak Bla bridge industrial zone, Kon Tum City		Kon Tum City	S=68ha; resident scale: 5.600 people; sub-infrastructure system (internal roads, WS system and public items)	from 2015	803,516	Provincial Budget	FS
3	Investing on infrastructure of Mang Den high tech agricultural zone (stage 1)		Kon Plong	S=30ha;	2017	60,800	Provincial Budget	FS
4	Investment on technical infrastructure of Dak La industrial cluster, Dak Ha district		Dak Ha	S=50ha;	2016-2020	112,000	Government budget	FS
40 - Gia Lai Province								
I	Road & Bridge							
1	Upgrading PR. 663	Chu Prong	Bầu Cạn, Ia Púch	Upgrading 48km existing road meeting class IV-mountain area. Start point - Km188+200 (NH.19); End point - Km190+350 (NH.14C);	2016 - 2020	175,000	Provincial Budget	Conceptual Plan
2	Upgrading, widening and new construction PR. 667	An Khe, Kong Chro		Upgrading and widening 28km existing and new construction section Ia Ma-Đak Pling (26km) meeting class V-mountain area, section Đak Pling - Đông Xuân (17km) meeting class IV-mountain area;	2016 - 2020	273,000	Provincial Budget	Conceptual Plan
3	New construction PR. T2	Chu Pah, Duc Co	Ia Khrol, Chu Ty	New construction 82km planned road meeting class IV-mountain area;	2016 - 2020	642,000	Provincial Budget	Conceptual Plan
4	New construction PR. T3	Chu Se, Duc Co		New construction 72km planned road meeting class IV-mountain area. L=72km. Start point NH.25 (H'Bông commune), end point (Chư Ty town);	2016 - 2020	820,000	Provincial Budget	Conceptual Plan
5	New construction PR. T5	K'bang		New construction 81km planned road meeting class IV-mountain area. L=81km; Start point: Km39+200-PR.670, End point (Som Lang commune);	2016 - 2020	970,000	Provincial Budget	Conceptual Plan
6	New construction PR. T9	Kong Chro, Ia Pa		New construction 35km planned road meeting class IV-mountain area. Start point: PR.667 and Trường Sơn Đông road intersection, Kong Chro town; End point: Ia Pa town;	2016 - 2020	420,000	Provincial Budget	Conceptual Plan
7	New construction PR. T10	Krong Pa		New construction 80km planned road meeting class IV-mountain area; Start point Km79+900-NH.19; End point: Ia Mlah/Krong Pa;	2016 - 2020	1,425,000	Provincial Budget	Conceptual Plan
8	Upgrading and widening NH.25	Chu Se, Phu Thien, Ayun Pa, Krong Pa		Upgrading and widening 111.8km section Km69 - Km181 meeting class III-mountain area;	2016 - 2020	2,019,000	National Budget	Conceptual Plan
9	Upgrading and widening NH.14C	Chu Prong, Duc Co, Ia Grai		Upgrading and widening 112km, section Km107 - Km219 meeting class IV-mountain area;	2016 - 2020	428,000	National Budget	Conceptual Plan
II	Irrigation							
1	Upgrading and repairing Ia Mlá reservoir	Krong Pa	Ia Mlá	Service area 5150ha	2014-2020	124,700	Provincial Budget	Conceptual Plan
2	Upgrading and repairing Ia Rmook pumping	Krong Pa	Ia Rmor	Service area 120ha	2014-2020	4,000	Provincial Budget	Conceptual Plan
3	Upgrading and repairing Ia Hrung reservoir	Ia Grai	Ia Hrung	Service area 500ha	2014-2020	10,000	Provincial Budget	Conceptual Plan
4	Upgrading and repairing Ia Nàng reservoir	Ia Grai	Ia Kha	Service area 105ha	2014-2020	8,000	Provincial Budget	Conceptual Plan
5	Upgrading and repairing Tôt village reservoir	Ia Grai	Ia Khai	Service area 100ha	2014-2020	5,000	Provincial Budget	Conceptual Plan
6	Upgrading and repairing Ot village reservoir	Ia Grai	Ia Sao Ia Sao II	Service area 150ha	2014-2020	5,400	Provincial Budget	Conceptual Plan
7	Upgrading and repairing Jút village reservoir	Ia Grai	Ia Sao, Ia Sao II	Service area 210ha	2014-2020	7,000	Provincial Budget	Conceptual Plan
8	Upgrading and repairing village No.4 reservoir	Ia Grai	Ia Krai	Service area 150ha	2014-2020	8,000	Provincial Budget	Conceptual Plan
9	Upgrading and repairing village No.6 Dam	Ia Grai	Ia Krai	Service area 110ha	2014-2020	9,000	Provincial Budget	Conceptual Plan
10	Upgrading and repairing Trà Tập dam	Dak Doa	Nam Yang	Service area 202ha	2014-2020	1,600	Provincial Budget	Conceptual Plan
11	Upgrading and repairing village No. 2 dam	Dak Doa	Nam Yang	Service area 112ha	2014-2020	5,000	Provincial Budget	Conceptual Plan
12	Upgrading and repairing Pleipai-Ia Lóp reservoir	Chu Prong	Ia Láu	Service area 1503ha	2014-2020	49,100	Provincial Budget	Conceptual Plan
13	Upgrading and repairing C1 reservoir	Chu Prong	Ia Pia	Service area 380ha	2014-2020	6,000	Provincial Budget	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
14	Upgrading and repairing C4 reservoir	Chu Prong	Ia Vê	Service area 235ha	2014-2020	7,000	Provincial Budget	Conceptual Plan
15	Upgrading and repairing IaDMouc Dam	Chu Prong	Ia Púch	Service area 30ha	2014-2020	1,400	Provincial Budget	Conceptual Plan
16	Upgrading and repairing Ia Pát reservoir + pumping	Chu Se	Xã Dun	Service area 416ha	2014-2020	10,000	Provincial Budget	Conceptual Plan
17	Upgrading and repairing Ia Ring reservoir	Chu Se	Ia Tiêm	Service area 1567ha	2014-2020	14,700	Provincial Budget	Conceptual Plan
18	Upgrading and repairing Plei Tô Kôn reservoir	Kbang	Sơ Pai	Service area 172ha	2014-2020	10,400	Provincial Budget	Conceptual Plan
19	New construction Đăk Tô Ver reservoir	Chu Pah	Đăk Tô Ver	Service area 160ha	2014-2020	32,000	Provincial Budget	Conceptual Plan
20	New construction Krông Năng Pumping	Krong Pa	Krông Năng	Service area 160ha	2014-2020	19,200	Provincial Budget	Conceptual Plan
21	New construction EaRsai reservoir	Krong Pa	EaRsai	Service area 1600ha	2014-2020	398,100	Provincial Budget	Conceptual Plan
22	New construction Ia Lâm reservoir	Duc Co	Ia Krêl	Service area 180ha	2014-2020	36,000	Provincial Budget	Conceptual Plan
23	New construction An Phú Pumping	Pleiku	An Phú	Service area 300ha	2014-2020	36,000	Provincial Budget	Conceptual Plan
24	New construction Thanh Bình reservoir	Chu Prong	Ia Drang	Service area 160ha	2014-2020	32,000	Provincial Budget	Conceptual Plan
25	New construction Plei Thờ Ga reservoir	Chu Puh	Chư Don	Service area 600ha	2014-2020	133,200	Provincial Budget	Conceptual Plan
26	New construction Ea Thul reservoir	Ia Pa	Ea Thul	Service area 5226ha	2014-2020	1,338,400	Provincial Budget	Conceptual Plan
27	New construction Chư Gu Pumping	Ia Pa	Pờ Tô	Service area 150ha	2014-2020	18,000	Provincial Budget	Conceptual Plan
28	New construction Ia Rheo reservoir	Ia Pa	Pờ Tô	Service area 1150ha	2014-2020	198,000	Provincial Budget	Conceptual Plan
29	New construction Ea Rô reservoir	Ayun Pa	Ia Rô	Service area 350ha	2014-2020	85,400	Provincial Budget	Conceptual Plan
30	New construction Ia Ke reservoir	Chu Puh, Phu Thien	Ia Phang	Service area 450ha	2014-2020	92,200	Provincial Budget	Conceptual Plan
31	New construction Tàu Dầu reservoir	Dak Po	Cư An	Service area 250ha	2014-2020	54,700	Provincial Budget	Conceptual Plan
32	New construction Đông commune Pumping Station	KBang	Xã Đông	Service area 200ha	2014-2020	24,000	Provincial Budget	Conceptual Plan
33	New construction Làng Khương reservoir	KBang	Tơ Tung	Service area 200ha	2014-2020	12,500	Provincial Budget	Conceptual Plan
34	New construction Klêch village reservoir	KBang	Tơ Tung	Service area 315ha	2014-2020	10,000	Provincial Budget	Conceptual Plan
35	New construction Đăk Kô Het Dam	KBang	Kbang town	Service area 50ha	2014-2020	8,000	Provincial Budget	Conceptual Plan
36	New construction Suối Lơ reservoir	KBang	Kon Long Khong	Service area 1100ha	2014-2020	275,800	Provincial Budget	Conceptual Plan
III	Domestic water supply							
1	Upgrading domestic water system inside Le Thanh border gate economical zone	Duc Co	Ia Dom	Beneficiaries: 54 factories and local resident inside Le Thanh border gate economical zone, design capacity: 4550m ³ /day, total length of pile line: 12km	2016 - 2020	18,000	Provincial Budget	F/S
2	New construction the domestic water system for local resident of Ia Dom commune	Duc Co	Ia Dom	Beneficiaries: 4000 households (16000 people), design capacity: 2300m ³ /day, total length of pile line: 12km	2016 - 2020	14,000	Provincial Budget	F/S
3	Widening water system for Tra Da industrial park	Pleiku	Tra Da, Bien Ho	Beneficiaries: 43 companies, upgrading capacity from 2000m ³ /day to 3000 m ³ /day, total length of pile line 9km;	2016 - 2020	15,000	Provincial Budget	F/S
4	New construction domestic water plant in Ia Ly town	Chu Pah	Ia Ly town	design capacity: 1000m ³ /day, beneficiaries: 1000, total length of pile line 6km, source: surface water	2016 - 2020	12,000	Provincial Budget	F/S
5	New construction clean water system for Chu Pah industrial park	Chu Pah	Ia Khurôl	Design capacity: 1500m ³ /day, total length of pile line 5km	2016 - 2020	15,000	Provincial Budget	F/S
6	Upgrading and widening Phu Hoa domestic water system	Chu Pah	Phu Hoa town	Design capacity: 800m ³ /day, total length of pile line 5km, Beneficiaries: 1050 people;	2016 - 2020	5,000	Provincial Budget	F/S
7	New construction domestic water system for Dak Doa town and Dak Doa industrial park	Dak Doa	Dak Doa town Kdang	Design capacity: 1500m ³ /day, total length of pile line 28km, number of beneficiaries 1750, source: Bien Ho reservoir	2016 - 2020	20,000	Provincial Budget	F/S
8	Upgrading for Dak Doa domestic water system	Dak Doa	Dak Doa town	Design capacity: 1400m ³ /day, beneficiaries: 3000 households (12,000 people), total length of pile line: 9km, source: ground water	2016 - 2020	15,000	Provincial Budget	F/S
9	Upgrading reservoir and main pile system of Ca Tung 4 water plant	Dak Po	Dak Po town	Design capacity: 1300m ³ /day, Beneficiaries: 4500 people, source: Ca Tung 4 reservoir	2016 - 2020	25,000	Provincial Budget	F/S
10	Upgrading Ia Pa domestic water system	Ia Pa	Ia Pa town	Design capacity: 4000m ³ /day, Beneficiaries: 5500 people, source: Yaun Ha reservoir	2016 - 2020	15,000	Provincial Budget	F/S
11	Upgrading water system for Ia Pa industrial park	Ia Pa	Kim Tan	Design capacity: 550m ³ /day, total length of pile line 11km, beneficiaries: 1400 workers, 19 companies;	2016 - 2020	10,000	Provincial Budget	F/S
12	Upgrading Ia Kha domestic water system	Ia Grai	Ia Kha	Design capacity: 2500m ³ /day, beneficiaries: 2000 households, total length of pile line: 15km, source: ground water	2016 - 2020	7,000	Provincial Budget	F/S
13	New construction Mang Yang domestic water plant	Mang Yang	Kon Don town	Design capacity: 1400m ³ /day, source: ground water, beneficiaries: 2200 households (9500 people), total length of pile line: 57km	2016 - 2020	35,000	Provincial Budget	F/S
14	New construction clean water tanks for Nhon Hoa domestic water system	Chu Puh	Nhon Hoa town	Design capacity: 360m ³ /day, beneficiaries: 1000 people, source: ground water	2016 - 2020	2,000	Provincial Budget	F/S
IV	Electricity Distribution							
1	Rural electrical supplying project from National Electrical network in Gia Lai, period 2015-2020	whole province		Medium voltage network: 355.34km; Low voltage network: 1277.4km; transformers: 564, total capacity 51.750kVA	2016 - 2020	971,300	National Budget	DD
41 - Dak Lak Province								
1	Road & Bridge							
1	Upgrading and Widening PR. 688 (PR.8)	BMT city, Cư M'gar, Krong Buk		Length 35km, upgrading urban sections to meet class 1, 2. Upgrading rural sections to meet class III-Mountain area;	2017-2022	589,000	ODA	Conceptual Plan
2	Upgrading and Widening PR. 689 (PR.9)	Krong Pak, Krong Bong		Length 27km, upgrading urban sections to meet class 2. Upgrading rural sections to meet class III-Mountain area;	2017-2022	250,000	ODA	Conceptual Plan
3	Upgrading and Widening PR. 692 (PR.12)	Krong Bong		Length 53km, upgrading urban sections to meet class 2. Upgrading rural sections to meet class III-Mountain area;	2017-2022	635,000	ODA	Conceptual Plan
4	Upgrading and Widening PR.695 (PR.15)	Ea H'Leo		Length 29km: Stage1: Upgrading existing road to meet class IV-Mountain area; Stage2: Upgrading urban sections to meet class 2. Upgrading rural sections to meet class III-Mountain area;	- Stage1: 2016 - 2020- Stage2: 2021 - 2030	247,000	ODA	Conceptual Plan
5	Upgrading and Widening PR.697E (PR.19A)	BMT city, Buon Don		Length 15km: - Stage1: Upgrading existing road to meet class IV-Mountain area; - Stage2: Upgrading urban sections to meet class 2. Upgrading rural sections to meet class III-Mountain area;	2017-2022	249,000	ODA	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
6	New construction, Upgrading and Widening PR. 687 (PR.7)	Lak		Length 24km;	2017-2022			
6.1	- Section: Km0 - Km4			Length 4km: Keep maintenance frequently;			ODA	Conceptual Plan
6.2	- Section 2: Km4 - Km14			Length 10km: Upgrading existing road to meet class III-Mountain area;	2021 - 2030	70,000	ODA	Conceptual Plan
6.3	- Section 3: Km14 - Km24 (New construction to extend existing road)			Length 10km (extension): - Construct new road meeting class IV-Mountain area; - Upgrading to meet class III-Mountain area;	- Stage1: 2016 - 2020 - Stage2: 2021 - 2030	142,000	ODA	Conceptual Plan
7	New construction, Upgrading and Widening PR. 690 (PR.10)	Cu Kuin, Krong Ana		Total length 40km, consist of 20km existing road and 20km new road	2017-2022	498,000		
7.1	- Section 1: Km0 - Km4			Length 4km (new road); - Stage2: New construction road, class IV-Mountain area; - Stage2: Upgrading to meet urban main road, class 2;	2017-2022	66,000	ODA	Conceptual Plan
7.2	- Section 2: Km4 - Km16			Length 12km (new road): - New construction road, class IV-Mountain area; - Upgrading road to meet class III-Mountain area;	2017-2022	180,000	ODA	Conceptual Plan
7.3	- Section 3: Km16 - Km20			Length 4km (new road); - Stage2: New construction road, class IV-Mountain area; - Stage2: Upgrading to meet urban main road, class 2;	2017-2022	66,000	ODA	Conceptual Plan
7.4	- Section 4: Km20 - Km24;			Length 4km, upgrading existing road to meet urban main road, class 2;	2017-2022	42,000	ODA	Conceptual Plan
7.5	- Section 5: Km24 - Km40			Length 16km, upgrading existing road to meet class III-Mountain area;	2017-2022	144,000	ODA	Conceptual Plan
8	New construction, Upgrading and Widening PR.693 (PR.13)	M'Drak		Upgrading and extension 40km, consist of 30km existing road and 10km new road;				
8.1	- Section 1: Km0 - Km4 (Existing road)			Length 4km, widening and upgrading to meet urban road class 2;	2017-2022	28,000	ODA	Conceptual Plan
8.2	- Section 2: Km4 - Km20:			Length 16km, upgrading and widening to meet class III-Mountain area;	2017-2022	96,000	ODA	Conceptual Plan
8.3	- Section 3: Km20 - Km36 (New construction)			Length 16km (extension): - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	2017-2022	136,000	ODA	Conceptual Plan
8.4	- Section 4: Km36 - Km40			Length 4km (extension): - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	2017-2022	38,000	ODA	Conceptual Plan
9	New construction, Upgrading and Widening PR.697 (PR.1)	BMT city, Buon Don, Ea Sup		Upgrading and extension 81km, consist of 67km existing road and 14km new road				
9.1	- Section 1: Km0 - Km8+300 (Upgrading)			Length 8.3km, upgrading and widening to meet urban main road, class 1;	2021 - 2030	174,300	ODA	Conceptual Plan
9.2	- Section 2: Km8+300 - Km18+600 (Upgrading):			Length 10.3km, upgrading and widening existing road to meet class III-Mountain area;	2021 - 2030	89,610	ODA	Conceptual Plan
9.3	- Section 3: Km18+600 - Km24+600 (Upgrading)			Length 6km, upgrading and widening to meet urban main road, class 2;	2021 - 2030	72,000	ODA	Conceptual Plan
9.4	- Section 4: Km24+600 - Km63 (Upgrading):			Length 38.4km, upgrading and widening existing road to meet class III-Mountain area;	2021 - 2030	334,080	ODA	Conceptual Plan
9.5	- Section 5: Km63 - Km67 (Upgrading):			Length 4km, upgrading and widening to meet urban main road, class 2;	2021 - 2030	48,000	ODA	Conceptual Plan
9.6	- Section 6: Km67 - Km71 (New construction)			Length 4km (extension): - New construction road meeting class IV-Mountain area; - Upgrading and widening to meet urban main road class 2;	- Stage1: 2016 - 2020 - Stage2: 2021 - 2030	100,000	ODA	Conceptual Plan
9.7	- Section 7: Km71 - Km81 (New construction):			Length 10km (extension): - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	- Stage1: 2016 - 2020 - Stage2: 2021 - 2030	200,000	ODA	Conceptual Plan
10	New construction, Upgrading and Widening PR.698 (PR.2)	TP,BMT, Krong Ana		Upgrading and extension 54km, consist of 27km existing road and 27km new road				
10.1	- Section 1: Km0 - Km10 (New construction)			Length 10km (extension): - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	- Stage1: 2016 - 2020 - Stage2: 2021 - 2030	220,000	ODA	Conceptual Plan
10.2	- Section 2: Km10 - Km16+400 (Upgrading)			Length 6.4km, upgrading and widening to meet urban main road, class 1;	2021 - 2030	134,400	ODA	Conceptual Plan
10.3	- Section 3: Km16+400 - Km22 (Upgrading)			Length 5.6km, upgrading and widening existing road to meet class III-Mountain area	2021 - 2030	56,000	ODA	Conceptual Plan
10.4	- Section 4: Km22 - Km30 (Upgrading)			Length 8km, upgrading and widening to meet urban main road, class 2;	2021 - 2030	96,000	ODA	Conceptual Plan
10.5	- Section 5: Km30 - Km37 (Upgrading)			Length 7km, upgrading and widening existing road to meet class III-Mountain area	2016 - 2020	70,000	ODA	Conceptual Plan
10.6	- Section 6: Km37 - Km54 (New construction)			Length 17km (extension): - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	- Stage1: 2016 - 2020 - Stage2: 2021 - 2030	374,000	ODA	Conceptual Plan
11	Upgrading PR. 3	Ea Kar, Krong Nang		Upgrading 24km existing road meeting class IV-Mountain area	2017-2022	250,000	ODA	Conceptual Plan
12	New construction, Upgrading and Widening PR.699 (PR.19)	Ea Kar, Krong Nang		Upgrading and extension 120km, consist of 24km existing road and 96km new road				
12.1	- Section 1: Km0 - Km4 (New construction)			Length 4km (extension): - New construction road meeting class IV-Mountain area; - Upgrading and widening to meet urban main road class 2;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	104,000	ODA	Conceptual Plan
12.2	- Section 2: Km4 - Km27 (New construction)			Length 23km (extension): - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	414,000	ODA	Conceptual Plan
12.3	- Section 3: Km27 - Km31 (New construction)			Length 4km (extension): - New construction road meeting class IV-Mountain area; - Upgrading and widening to meet urban main road class 2;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	104,000	ODA	Conceptual Plan
12.4	- Section 4: Km31 - Km35 (Upgrading)			Length 4km, keep maintenance frequently;		8,000	ODA	Conceptual Plan
12.5	- Section 5: Km35 - Km51 (Upgrading)			Length 16km, upgrading and widening existing road to meet class III-Mountain area;	2021 - 2030	160,000	ODA	Conceptual Plan
12.6	- Section 6: Km51 - Km55 (Upgrading)			Length 4km, upgrading and widening existing road to meet urban main road class 2;	2021 - 2030	48,000	ODA	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
12.7	- Section 7: Km55 - Km59 (New construction)			Length 4km (extension); - New construction road meeting class IV-Mountain area; - Upgrading and widening to meet urban main road class 2;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	100,000	ODA	Conceptual Plan
12.8	- Section 8: Km59 - Km116 (New construction)			Length 57km (extension); - Stage1: New construction road meeting class IV-Mountain area; - Stage2: Upgrading and widening to meet class III-Mountain area;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	1,026,000	ODA	Conceptual Plan
12.9	- Section 9: Km116 - Km120 (New construction)			Length 4km (extension); - New construction road meeting class IV-Mountain area; - Upgrading and widening urban main road class 2;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	104,000	ODA	Conceptual Plan
13	Construction new road PR. 687B (PR.19C)	Krong Bong		Length 55km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure class IV-Mountain area;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	660,000	ODA	Conceptual Plan
14	Construction new road PR. 693B (PR.13B)	M'Drak		Length 35km, upgrading to meet class IV-Mountain area	2017-2022	245,000	ODA	Conceptual Plan
15	Construction new road PR. 693C (PR.13A)	Krong Bong		Length 33km, upgrading to meet class IV-Mountain area	2017-2022	231,000	ODA	Conceptual Plan
16	Construction new road PR. 694B (PR.14B)	Krong Nang, Ea H'leo		Length 71km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	2017-2022	497,000	ODA	Conceptual Plan
17	Construction new road PR. 696B (PR.16B)	Buon Don		Length 43km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	2017-2022	516,000	ODA	Conceptual Plan
18	Construction new road PR. 696C (PR.16C)	Buon Don		Length 31km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	2017-2022	372,000	ODA	Conceptual Plan
19	Construction new road PR. 696D (PR.16A)	Ea Sup		Length 30km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	2017-2022	360,000	ODA	Conceptual Plan
20	Construction new road PR. 697B (PR.17B)	Krong Bong		Length 46km, upgrading to meet class IV-Mountain area;	2017-2022	322,000	ODA	Conceptual Plan
21	Construction new road PR. 697C (PR.17C)	Ea Sup		Length 39km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	2017-2022	468,000	ODA	Conceptual Plan
22	Construction new road PR. 697D (PR.17A)	Ea Sup		Length 47km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	2017-2022	564,000	ODA	Conceptual Plan
23	Construction new road PR. 699B (PR.19B)	Ea Sup		Length 35km: - Stage1: Investment to build embankment and bridges; - Stage2: Invest for surface structure to meet class IV-Mountain area;	- Stage1: 2017 - 2022 - Stage2: 2021 - 2030	420,000	ODA	Conceptual Plan
24	Urban roads of Buon Ho town (11 roads)	Buon Ho		New construction 11 Urban roads, total length 5.67km, consist of: road, bridges, drainage works, side-walk and lighting;	2017 - 2022	101,200	ODA	DD
25	Construction the infrastructure of South East of Tran Hung Dao Urban Area;	Buon Ho	An Lạc	Construction internal infrastructural system of new urban area, S= 23.3ha;	2017 - 2022	203,600	ODA	F/S
26	Ring road of Phuoc An town	Krong Pak	TT Phước An	Total length 10.028km, consist of: road, bridges, drainage works, side-walk and lighting;	2017 - 2022	126,000	ODA	F/S
27	Nguyen Dinh Chieu road, section from Nguyen Khuyen street to Westen ring road	BMT city		New construction grade III road and other infrastructure, total length 1.614km;	2017 - 2022	107,000	ODA	F/S
28	Connection road from Y Jút street to Nguyen Dinh Chieu street	BMT city		New construction grade III road and other infrastructure, total length 0.74km;	2017 - 2022	100,900	ODA	F/S
29	Upgrading and Widening road from NH.14 to NH.26 and NH14 to PR.8	BMT city		New construction grade III road and other infrastructure, total length 8.364km;	2017 - 2022	472,000	ODA	F/S
30	Construction Phan Huy Chu street	BMT city		New construction grade III road and other infrastructure;	2017 - 2022	120,800	ODA	F/S
31	Construction internal road of Lak town	Lak	Lak town	New construction road and related infrastructural system, total length of road = 3km;	2017 - 2022	13,000	ODA	Pre-F/S
32	Road from Krong Buk to Krong Nang	Krong Kuk, Krong Nang		20km class IV-Mountain area, asphalt pavement	2017 - 2022	200,000	ODA	Pre-F/S
33	Concrete bridge crossing Krong No river (connect Buon Chap with Buon Choa)	Krong No	Buon Chap, Buon Choa	Concrete bridge, length 198m	2017 - 2022	150,000	ODA	Pre-F/S
II Irrigation								
1	Cư Mễn Irrigation system	Krong Bong	Dang Kang	Service area 30 ha paddy and 65 ha coffee. Capacity of main reservoir 686219m ³ and 3324.5m diversion canal;	2017 - 2022	28,900	ODA	F/S
2	Krông Kmar center Reservoir	Krong Bong	Krong Kmar	Design capacity 340890 m ³ , service area (100ha coffee and 150ha paddy);	2017 - 2022	48,900	ODA	F/S
3	Krông Kmar main canal - Slope protection 4km	Krong Bong	Krong Kmar	Repair 2 collapsed main canal: - Section 1: L=2.7km from main canal to TL12; - Section 2: L=1.3km from TL 12 to Krông Kmar stream;	2017 - 2022	13,300	ODA	F/S
4	Reparation and Upgrading Ea Kuông Dam	Krong Pak	Ea Yong	Service area 700ha coffee. Repair, upgrade reservoir, dam, spillway, and inlet culvert;	2017 - 2022	100,000	ODA	Pre-F/S
5	Girdle Shaped Dike of village No. 13, 14 fields for flood protection	Krong Pak	Vu Bon	New dike, length 11.5km;	2017 - 2022	149,000	ODA	Pre-F/S
6	Ea Khal Irrigation system	Ea Sup	Cu Kbang	Service area 2000 ha paddy	2017 - 2022	149,000	ODA	Pre-F/S
III Domestic Water Supply								
1	Đạt Lý domestic water plant	BMT city		Capacity 5000 (m ³ /day)	2016 - 2020	80,000	Private company	Conceptual Plan
2	Upgrading Ea Drăng domestic water system	Ea H'leo	Ea Drăng	Construct new water plant, design capacity 2000 (m ³ /day), source: surface water; Beneficiaries: 20,000; Total distributed network: 30,000m	2017 - 2020	40,000	ODA	Pre-F/S
3	New construction Ea K'Nốp and Ea Kar town domestic Water system	Ea Kar	Ea Kar, Ea K'Nốp	Construct new water plant, design capacity 2000 (m ³ /day), source: surface water; Beneficiaries: 9,000; Total distributed network: 18,000m	2017 - 2022	20,000	ODA	Pre-F/S

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
4	Upgrading M'Drak town domestic water supply system	M'Drak	M'Drăk town	Replace existing system by new water plant, design capacity 2000 (m3/day), source: surface water; Beneficiaries: 6,000; Total distributed network: 20.000m	2017 - 2022	45,000	ODA	Pre-F/S
5	New domestic water system for 3 communes (Krong A, Ea M'Doal, Cu San)	M'Drak	Krong A, Ea M'Doal, Cu San	Construct new water plant, design capacity 2000 (m3/day), beneficiaries: 20,000;	2017 - 2022	120,909	ODA	F/S
6	Upgrading Buôn Tráp town domestic water supply system	Krong Ana	Buôn Tráp	Design capacity 1000 (m3/day), beneficiaries 5000, total pile line network 22.000m;	2017 - 2022	14,000	ODA	Pre-F/S
7	Upgrading Lien Son town domestic water supply system	Lak	Liên Sơn, Đăk Nuê, Đăk Liêng	Replace existing system by new water plant, design capacity 2000 (m3/day); Beneficiaries: 6,000; Total distributed network: 20.000m	2017 - 2022	45,000	ODA	Pre-F/S
8	Upgrading Krong Buk town domestic water supply system	Krong Buk	Krông Búk	Design capacity 1.500 (m3/day), total pile line network 18.000m;	2017 - 2022	32,000	ODA	Pre-F/S
9	Upgrading Hòa Phú industrial park water supply system	BMT city	Hòa Phú	Design capacity 3.000 (m3/day) supply clean water to Hoa Phu industrial park	2017 - 2022	69,000	ODA	Pre-F/S
IV	Electricity Distribution							
1	220kV system	Krong Ana, Krong Buk,		- Transformer: New construction transformer 220kV at Krong Ana, 220/110/22kV, capacity (2x125)MVA, installation T1 machine; Upgrading and Widening transformer 220kV at Krong Búk, replace existing machine, raising capacity from (2x125)MVA to (250+125)MVA, total capacity 375MVA; - Distribution line: + New construction line from Krông Ana station to Krông Búk station, 220kV; + New construction line at Buôn Kuốp, length 2x22km;	2017 - 2022	616,400	EVN	Conceptual Plan
2	110kV system	Krong Buk, Ea H'leo		- Transformer: New construction 03 stations 90MVA and Upgrading 11 existing stations, raising capacity to 290MVA. New construction 01 station, capacity 40MVA; - Distribution line: + New construction 153.5km line 110kV and rehabilitation 39km 110kV line; + New construction 110kV line Krông Búk - Ea H'leo;	2017 - 2022	1,040,900	EVN	Conceptual Plan
V.	Disaster and Climate Change Prevention							
1	Construction dyke and protected embankment of Krong Ana river	Lak		Total length of dyke and protected embankment 18.9km	2015-2019	350,000	ODA + Government budget	Pre-F/S
2	Development Lak irrigation system	Lak		Construct new Girdle Shaped Dike of Krong Ana river and Buon Biep reservoir, Yang Tao commune;	2016-2020	160,000	ODA + Government budget	Pre-F/S
3	Strengthening slope for landslide sections on roads to respond to Climate Change	whole province		Survey risk of landslide section on NH.14 under Climate Change impaction and construct structures to strengthen stability of slope;	2017 - 2022	40,000	ODA + Government budget	Pre-F/S
4	Dredging rivers, canals and streams, construction reservoirs, dams frequently 5years/	whole province		- Dredging main canal at Sinh Môn village (Hòa An commune); - Construction against drought pumping station at Ea O'h reservoir (Krong Buk commune); - Repair dyke and against drought pumping station at Phước Trach reservoir (Ea Phe), against drought pumping station at Ea Yiêng; - Upgrading and repairing supply canal Suối Cát (Tân Tiến); - Construct new weir Ea Hiu, at village 6A (Hòa An); - Construct pumping station Pu ần A, B (Ea Phê); - Construct discharge canal at village No. 12 (Vu Bôn);	2016-2020	30,000	ODA + Government budget	Pre-F/S
42 - Dak Nong Province								
1	Road							
1	Widening and Upgrading NH.14C (2nd stage)	Cu Jut, Dak Mil, Dak Song		Length of Road=99km, Class: III-Mountain Area;	2020 - 2030	792,000	National Budget	Conceptual Plan
2	New Construction NH.14C, section by-pass Dak Mil town	Dak Mil		Length of Road=15km, Class: IV-Mountain Area;	2016-2020	300,000	National Budget	Conceptual Plan
3	New Construction NH.14, section by-pass Gia Nghia town	Gia Nghia		Length of Road=13.7km, Class: III-Mountain Area;	2016-2020	850,000	National Budget	Pre-F/S
4	New Construction NH.14, section by-pass Kien Duc town	Dak R'lap		Length of Road=15km, Class: III-Mountain Area;	2016-2020	330,000	National Budget	Conceptual Plan
5	Widening and Upgrading NH.28	Gia Nghia		Length of Road=58km, Class: III-Mountain Area;	2016-2020	1,276,000	National Budget	Conceptual Plan
6	Widening and Upgrading NH.55, section Dong Nai No. 4 hydropower plant connect to NH.55 Bao Loc City	Dak Glong		Length of Road=22km, Class: IV-Mountain Area	2016-2020	110,000	National Budget	Conceptual Plan
7	Widening and Upgrading NH.55, section Dong Nai No. 4 hydropower plant connect to NH.55 Bao Loc City	Dak Glong		Length of Road=22km, Class: III-Mountain Area	2020 - 2030	484,000	National Budget	Conceptual Plan
8	Ho Chi Minh Road	Cu Jut, Dak Mil, Dak Song, Gia Nghia, Dak R'lap		Upgrading 105km existing road class IV upto Express Way A2-Mountain Area;	2020 - 2030	18,231,000	National Budget	Conceptual Plan
9	New construction road to Bu Prang border Gate (consist of PR.1)	Dak R'lap, Tu Duc		Length of Road=54km, Class: III-Mountain Area	2016-2020	875,000	Provincial Budget	Conceptual Plan
10	Widening and Upgrading PR.5, section Km0 -:- Km16	Dak R'lap		Length of Road=16km: - Stage 1 Class: IV-Mountain Area; - Stage 2 Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	208,000	Provincial Budget	Conceptual Plan
11	Upgrading PR.2	Dak Song		Length of Road 24km, Class: IV-Mountain Area	2016-2020	480,000	Provincial Budget	Conceptual Plan
12	Extension PR.3 to Đăk Perr border gate	Dak Mil		Length of Road=36km; - Stage1: Section 1, L=12km, Class: IV-Mountain Area; - Stage2: Whole road, L=36km, Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	624,000	Provincial Budget	Conceptual Plan
13	Upgrading and Improvement pavement PR. 4, section Km84 -:- Km111	Cu Jut		Length of Road=27km, Class: IV-Mountain Area	2016-2020	135,000	Provincial Budget	Conceptual Plan
14	Widening and Upgrading PR.4 (whole road)	Krong No, Cu Jut, Dak Glong		Length of Road=111km, Class: III-Mountain Area	2020 - 2030	888,000	Provincial Budget	Conceptual Plan
15	Widening and Upgrading PR.6 (whole road)	Tuy Duc, Dak Song, Dak Glong, Krong No		Length of Road=76km, Class: III-Mountain Area	2020 - 2030	608,000	Provincial Budget	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
16	New construction road Đăk Lao - EaTling	Dak Mil, Cu	Jut	Length of Road=44km; - Stage1: Class: IV-Mountain Area; - Stage2: Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	1,412,000	Provincial Budget	Conceptual Plan
17	New construction road Đăk Song - Quảng Phú, section Đăk Song - Đăk Nang	Dak Song, Krong No		- Stage1: Section I, L=30km, Class: IV-Mountain Area; - Stage2: Whole Road, L=60km, Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	1,080,000	Provincial Budget	Conceptual Plan
18	New construction PR.5, section Quảng Khê - Quảng Hòa	Dak R'lap, Gia Nghia		Length of Road=47km, Class: IV-Mountain Area;	2016 - 2020	940,000	Provincial Budget	Conceptual Plan
19	Widening and Upgrading PR.5, section Quảng Khê - Quảng Hòa and Đăk Nang - Quảng Khê;	Dak R'lap, Gia Nghia		Length of Road=92km, Class: III-Mountain Area;	2020 - 2030	736,000	Provincial Budget	Conceptual Plan
20	New construction road Bu Prăng - Quảng Trục - Quảng Tín	Tuy Duc, Dak R'lap		Length of Road=47km; - GD1: Class: IV-Mountain Area; - GD2: Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	1,316,000	Provincial Budget	Conceptual Plan
21	New construction and Upgrading road Đăk Wer - Quảng Trục	Dak R'lap		Length of Road=55km; - Stage1: Class: IV-Mountain Area; - Stage2: Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	1,540,000	Provincial Budget	Conceptual Plan
22	Widening and Upgrading NH.14C, section Đăk Song - Tuy Đức	Dak Song, Tuy Duc		Length of Road=24km, Class: III-Mountain Area;	2020 - 2030	192,000	National Budget	Conceptual Plan
23	New construction and Upgrading Gia Nghia ring road	Gia Nghia		Length of Road=70km; - Stage1: Class: IV-Mountain Area; - Stage2: Class: III-Mountain Area;	Stage1: 2016-2020 Stage2: 2020-2030	1,960,000	Provincial Budget	Conceptual Plan
II	Irrigation							
1	Capital repair for irrigated reservoirs in Dak Nong province	Dak Mil, Dak R'lap, Tuy Duc, Dak Son	Thuan An, Dak R'la, Dak Ru, Nhan Co, Kien Thanh, Quang Truc, Dak N'Drung, Thuan Hanh, Dak Mol	- Đăk Puer reservoir/Thuan An: Capacity 677000 m3, service area 10.1ha paddy, earth dam: height 10m, length 300m; - Nui Lua reservoir/Thuan An: Capacity 800000 m3, service area 150ha, earth dam: height 9m, length 243m; - Đô Ry I reservoir/Dak R'la: Capacity 283500 m3, service area 90ha, earth dam: height 13m, length 170m; - Đăk Ru II reservoir/Dak Ru: Capacity 460000m3, service area 100ha, earth dam: height 11m, length 237m; - Village No.12 reservoir/Nhan Co: Capacity 403000 m3, service area 130ha, earth dam: height 10.5m, length 110m; - Dak R'Tang reservoir/Kien Thanh: Capacity 152000m3, service area 220ha, earth dam: height 10m, length 250m; - Dak Huyt reservoir/Quang Truc: Capacity 550000m3, service area 170ha, earth dam: height 15m, length 186m; - Village No.5 reservoir/Dak N'Drung: Capacity 135000m3, service area 38.5ha, earth dam: height 4.7m, length 200m; - Sinh Muong reservoir/Thuan Hanh: Capacity 1431000m3, service area 246ha, earth dam: height 12.7m, length 205m; - Dak Mol reservoir/Dak Mol: Capacity 750000m3, service area 195ha, earth dam: height 8m, length 272m; - Dak Kual reservoir/Dak N'Drung: Capacity 1230000 m3, service area 250ha, earth dam: height 14.9m, length 250m;	2017-2020	49,000	Provincial Budget	Pre-F/S
2	Widening and Upgrading Đăk Đrông Reservoir*	Cu Jut	Đăk Đrông	Service area514 ha	2016 - 2020	22,800	Unidentified	Conceptual Plan
3	Widening and Upgrading Cư Pú Reservoir	Cu Jut	Nam Dong	Service area180 ha	2016 - 2020	20,000	Unidentified	Conceptual Plan
4	Widening and Upgrading Đăk Rla Reservoir	Dak Mil	Đăk N'Drot	Service area100 ha	2016 - 2020	15,000	Unidentified	Conceptual Plan
5	Widening and Upgrading Buôn R'cáp Reservoir	Krong No	Nam Nung	Service area118 ha	2016 - 2020	20,000	Unidentified	Conceptual Plan
6	Widening and Upgrading Đăk Nang Reservoir	Krong No	Đăk Nang	Service area514 ha	2016 - 2020	25,000	Unidentified	Conceptual Plan
7	Widening and Upgrading Đăk Pok Reservoir	Krong No	Năm N'Dir	Service area165 ha	2016 - 2020	12,000	Unidentified	Conceptual Plan
8	Widening and Upgrading Đăk Nhang Reservoir*	Krong No	Nam Nung	Service area265 ha	2016 - 2020	10,000	Unidentified	Conceptual Plan
9	Widening and Upgrading Đăk Mám (Nam Đă) Reservoir	Krong No	Nam Đă	Service area430 ha	2016 - 2020	35,000	Unidentified	Conceptual Plan
10	Widening and Upgrading Chê Biền (Đăk Rial 1) Reservoir	Gia Nghia	Đăk Nia	Service area130 ha	2016 - 2020	20,000	Unidentified	Conceptual Plan
11	Widening and Upgrading Đăk Ru II Reservoir*	Dak R'lap	Đăk Ru	Service area355 ha	2016 - 2020	10,000	Unidentified	Conceptual Plan
12	Widening and Upgrading Sadaco Reservoir	Dak R'lap	Quảng Tín	Service area120 ha	2016 - 2020	15,000	Unidentified	Conceptual Plan
13	New construction Bon Đăk R'Moon Reservoir*	Gia Nghia	Đăk R'Moan	Service area375 ha	2016 - 2020	68,000	Unidentified	Conceptual Plan
14	New construction Đăk Muông 6 Reservoir	Gia Nghia	Đăk Nia	Service area100 ha	2016 - 2020	16,000	Unidentified	Conceptual Plan
15	New construction Ea Mao Reservoir	Cu Jut	Đăk Wil	Service area100 ha	2016 - 2020	22,200	Unidentified	Conceptual Plan
16	New construction Ea Sier Reservoir*	Cu Jut	Ea Pô	Service area260 ha	2016 - 2020	26,500	Unidentified	Conceptual Plan
17	New construction Đăk Drieh Reservoir	Cu Jut	Cư Knia	Service area280 ha	2016 - 2020	28,000	Unidentified	Conceptual Plan
18	New construction Đăk Gân Reservoir	Cu Jut	Trúc Sơn	Service area1050 ha	2016 - 2020	217,400	Unidentified	Conceptual Plan
19	New construction Đăk Siat Reservoir*	Dak Mil	Đăk Lao	Service area350 ha	2016 - 2020	55,600	Unidentified	Conceptual Plan
20	New construction Đăk Surr Reservoir	Dak Mil	Đăk Rla	Service area800 ha	2016 - 2020	111,200	Unidentified	Conceptual Plan
21	New construction Bắc Sơn 2 Reservoir	Dak Mil	Đăk Gân	Service area350 ha	2016 - 2020	55,600	Unidentified	Conceptual Plan
22	New construction Đăk Gang Reservoir	Dak Mil	Đăk Gân	Service area700 ha	2016 - 2020	182,600	Unidentified	Conceptual Plan
23	New construction Mạnh Tiến 2 Reservoir	Dak Mil	Đức Mạnh	Service area130 ha	2016 - 2020	20,600	Unidentified	Conceptual Plan
24	New construction Bon Bu Dril 1 Reservoir	Dak Mil	Đăk Lao	Service area170 ha	2016 - 2020	27,000	Unidentified	Conceptual Plan
25	New construction Đăk N'Drot Reservoir	Dak Mil	Đăk N'Dôt	Service area150 ha	2016 - 2020	23,800	Unidentified	Conceptual Plan
26	New construction Nam Xuân Reservoir*	Krong No	Nam Xuân	Service area1700 ha	2016 - 2020	120,000	Unidentified	Conceptual Plan
27	New construction Buôn Chohi pumping station	Krong No	Buôn Chohi	Service area150 ha	2016 - 2020	14,000	Unidentified	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
28	New construction Đắk Hoa Reservoir	Krong No	Tân Thành	Service area150 ha	2016 - 2020	24,000	Unidentified	Conceptual Plan
29	New construction Bon Chioh (Bon Xuyên Nam) Reservoir	Krong No	Đức Xuyên	Service area300 ha	2016 - 2020	64,200	Unidentified	Conceptual Plan
30	New construction Đắk Prit Dam	Krong No	Nâm N'Dir	Service area254 ha	2016 - 2020	47,500	Unidentified	Conceptual Plan
31	New construction Sinh Cỏ Reservoir	Dak Song	Thuận Hà	Service area280 ha	2016 - 2020	52,800	Unidentified	Conceptual Plan
32	New construction Đắk Tiên Tan Reservoir	Dak Song	Thuận Hạnh	Service area110 ha	2016 - 2020	18,200	Unidentified	Conceptual Plan
33	New construction village No. 7 Reservoir	Dak R'Lap	Đắk Wer	Service area168 ha	2016 - 2020	31,100	Unidentified	Conceptual Plan
34	New construction village No. 5 Reservoir*	Dak R'Lap	Nhân Cơ	Service area120 ha	2016 - 2020	19,200	Unidentified	Conceptual Plan
35	New construction Đắk Nêr 2 Reservoir	Dak R'Lap	Nhân Đạo	Service area170 ha	2016 - 2020	27,200	Unidentified	Conceptual Plan
36	New construction village No. 3 Reservoir	Tuy Duc	Đắk Ngo	Service area255 ha	2016 - 2020	53,200	Unidentified	Conceptual Plan
37	New construction Đắk N'Ting Reservoir*	Dak G'Long	Quảng Sơn	Service area890 ha	2016 - 2020	120,000	Unidentified	Conceptual Plan
38	New construction Đắk Ha Reservoir (down stream)	Dak G'Long	Đắk Ha	Service area250 ha	2016 - 2020	52,400	Unidentified	Conceptual Plan
39	New construction Gia Nghi center reservoir	Gia Nghia	Nghĩa Đức	Service area600 ha	2021 - 2025	129,400	Unidentified	Conceptual Plan
40	New construction Tân Tiên 1 Reservoir	Gia Nghia	Quảng Thành	Service area110 ha	2021 - 2025	22,500	Unidentified	Conceptual Plan
41	New construction Tân Tiên 2 Reservoir	Gia Nghia	Quảng Thành	Service area220 ha	2021 - 2025	35,100	Unidentified	Conceptual Plan
42	New construction Tân Tiên 3 Reservoir	Gia Nghia	Quảng Thành	Service area370 ha	2021 - 2025	59,100	Unidentified	Conceptual Plan
43	New construction Tân Hiệp 2 Reservoir	Gia Nghia	Đắk R'Moan	Service area200 ha	2021 - 2025	32,000	Unidentified	Conceptual Plan
44	New construction Ea Gan Reservoir (up stream)	Cu Jut	Trúc Sơn	Service area795 ha	2021 - 2025	163,300	Unidentified	Conceptual Plan
45	New construction Đắk M'Bai 1 Reservoir	Dak Mil	Đắk Lao	Service area100 ha	2021 - 2025	15,900	Unidentified	Conceptual Plan
46	New construction Nước Trong stream Reservoir	Dak Mil	Đắk Rla	Service area500 ha	2021 - 2025	79,400	Unidentified	Conceptual Plan
47	New construction Nam Sơn 1 Reservoir	Dak Mil	Đắk Găn	Service area600 ha	2021 - 2025	63,500	Unidentified	Conceptual Plan
48	New construction Tân Định Reservoir	Dak Mil	Đắk Găn	Service area230 ha	2021 - 2025	36,500	Unidentified	Conceptual Plan
49	New construction Đắk EA Dier Reservoir	Dak Mil	Đắk Găn	Service area100 ha	2021 - 2025	15,900	Unidentified	Conceptual Plan
50	New construction Đắk N'Dreng Reservoir	Dak Mil	Đắk Găn	Service area250 ha	2021 - 2025	39,700	Unidentified	Conceptual Plan
51	New construction Đắk R'la 4 Reservoir	Dak Mil	Đức Mạnh	Service area350 ha	2021 - 2025	47,600	Unidentified	Conceptual Plan
52	New construction Đắk Gon Reservoir	Dak Mil	Đắk N'Đôt	Service area500 ha	2021 - 2025	63,500	Unidentified	Conceptual Plan
53	New construction Suối 38 Reservoir	Dak Mil	Đắk Sắk	Service area280 ha	2021 - 2025	63,500	Unidentified	Conceptual Plan
54	New construction Lo Ren Reservoir	Dak Mil	Đắk Sắk	Service area400 ha	2021 - 2025	47,600	Unidentified	Conceptual Plan
55	New construction Yok Đắk Song 2 Reservoir	Dak Mil	Thuận An	Service area500 ha	2021 - 2025	79,400	Unidentified	Conceptual Plan
56	New construction Công An Reservoir	Krong No	T.T.Đắk Mâm	Service area100 ha	2021 - 2025	16,000	Unidentified	Conceptual Plan
57	New construction Nam Xuân Dam	Krong No	Nam Xuân	Service area100 ha	2021 - 2025	14,500	Unidentified	Conceptual Plan
58	New construction Đắk Na Reservoir	Krong No	Tân Thành	Service area500 ha	2021 - 2025	79,900	Unidentified	Conceptual Plan
59	New construction Đắk SôY village No. 12 Reservoir	Dak Song	Đức An	Service area130 ha	2021 - 2025	24,000	Unidentified	Conceptual Plan
60	New construction village No. 3 Rừng Lanh Reservoir	Dak Song	Đắk Hoà	Service area215 ha	2021 - 2025	35,300	Unidentified	Conceptual Plan
61	New construction Thôn 6 Reservoir	Dak Song	Nam Bình	Service area150 ha	2021 - 2025	27,100	Unidentified	Conceptual Plan
62	New construction Thôn 5 Reservoir	Dak Song	Thuận Hà	Service area200 ha	2021 - 2025	32,000	Unidentified	Conceptual Plan
63	New construction Thuận Tinh Reservoir	Dak Song	Thuận Hạnh	Service area130 ha	2021 - 2025	23,900	Unidentified	Conceptual Plan
64	New construction Thuận Tân Reservoir	Dak Song	Thuận Hạnh	Service area200 ha	2021 - 2025	38,200	Unidentified	Conceptual Plan
65	New construction Buôn Bông (Bu Boong) Reservoir	Dak Song	Đắk N'Rung	Service area130 ha	2021 - 2025	20,800	Unidentified	Conceptual Plan
66	New construction Bridge II Reservoir	Dak Song	Đắk N'Rung	Service area190 ha	2021 - 2025	33,500	Unidentified	Conceptual Plan
67	New construction village No. 1 Reservoir	Dak Song	Đắk N'Rung	Service area300 ha	2021 - 2025	47,900	Unidentified	Conceptual Plan
68	New construction Đắk Toit Reservoir	Dak Song	Nâm N'Jang	Service area345 ha	2021 - 2025	70,300	Unidentified	Conceptual Plan
69	New construction Đắk Pong Reservoir	Dak Song	Trưởng Xuân	Service area130 ha	2021 - 2025	23,900	Unidentified	Conceptual Plan
70	New construction village No. 1 Quảng Tín Reservoir	Dak R'lap	Quảng Tín	Service area200 ha	2021 - 2025	32,000	Unidentified	Conceptual Plan
71	New construction Quảng Tín Dam	Dak R'lap	Quảng Tín	Service area200 ha	2021 - 2025	38,200	Unidentified	Conceptual Plan
72	New construction Bon Bu Ndor Reservoir	Dak R'lap	Đắk Wer	Service area100 ha	2021 - 2025	16,000	Unidentified	Conceptual Plan
73	New construction village No. 8 Reservoir	Dak R'lap	Nhân Cơ	Service area150 ha	2021 - 2025	24,000	Unidentified	Conceptual Plan
74	New construction village No. 4 - K.Thành Reservoir	Dak R'lap	Kiến Thành	Service area100 ha	2021 - 2025	16,000	Unidentified	Conceptual Plan
75	New construction Kiên Thành Irrigation system	Dak R'lap	Kiến Thành	Service area100 ha	2021 - 2025	16,000	Unidentified	Conceptual Plan
76	New construction Suối Kê Reservoir	Dak R'lap	Nghĩa Thắng	Service area220 ha	2021 - 2025	36,400	Unidentified	Conceptual Plan
77	New construction Quảng Bình Reservoir	Dak R'lap	Nghĩa Thắng	Service area150 ha	2021 - 2025	24,000	Unidentified	Conceptual Plan
78	New construction Quảng Phước Reservoir	Dak R'lap	Nghĩa Thắng	Service area150 ha	2021 - 2025	24,000	Unidentified	Conceptual Plan
79	New construction village No.1 Reservoir	Dak R'lap	Nghĩa Thắng	Service area150 ha	2021 - 2025	27,100	Unidentified	Conceptual Plan
80	New construction Đắk Bôh 1 Reservoir	Dak R'lap	Nghĩa Thắng	Service area250 ha	2021 - 2025	49,300	Unidentified	Conceptual Plan
81	New construction Anh Kông 3 Reservoir	Dak R'lap	Đạo Nghĩa	Service area130 ha	2021 - 2025	25,700	Unidentified	Conceptual Plan
82	New construction Village No. 12 Đắk Sin Reservoir	Dak R'lap	Đắk Sin	Service area200 ha	2021 - 2025	32,000	Unidentified	Conceptual Plan
83	New construction Anh Kông 4 Reservoir	Dak R'lap	Đắk Sin	Service area140 ha	2021 - 2025	29,800	Unidentified	Conceptual Plan
84	New construction Village No.3 Hưng Bình Reservoir	Dak R'lap	Hưng Bình	Service area200 ha	2021 - 2025	32,000	Unidentified	Conceptual Plan
85	New construction Đắk Gur 2 Reservoir	Dak R'lap	Hưng Bình	Service area270 ha	2021 - 2025	53,700	Unidentified	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
86	New construction Buôn Rung (Bu NDRug) Reservoir	Tuy Duc	Đắk Buk So	Service area 120 ha	2021 - 2025	21,000	Unidentified	Conceptual Plan
87	New construction Đắk Glong 2 Reservoir	Dak G'Long	Quảng Khê	Service area 140 ha	2021 - 2025	31,100	Unidentified	Conceptual Plan
88	New construction Gung Roa Reservoir	Dak G'Long	Quảng Khê	Service area 150 ha	2021 - 2025	33,300	Unidentified	Conceptual Plan
89	New construction Đắk Dresao 1 Reservoir	Tuy Duc	Quảng Tâm	Service area 140 ha	2021 - 2025	25,800	Unidentified	Conceptual Plan
90	New construction village No.5 Dam	Tuy Duc	Đắk R'Tih	Service area 130 ha	2021 - 2025	27,000	Unidentified	Conceptual Plan
91	New construction Da Gusch Reservoir	Tuy Duc	Đắk Ngo	Service area 180 ha	2021 - 2025	28,800	Unidentified	Conceptual Plan
92	New construction Bon Ja Lú Dam	Tuy Duc	Quảng Tân	Service area 150 ha	2021 - 2025	24,000	Unidentified	Conceptual Plan
93	New construction Đắk Mrê Dam	Tuy Duc	Quảng Tân	Service area 150 ha	2021 - 2025	24,000	Unidentified	Conceptual Plan
94	New construction Đắk Krung 2 Reservoir	Tuy Duc	Quảng Tân	Service area 100 ha	2021 - 2025	18,500	Unidentified	Conceptual Plan
95	New construction Đắk R'lấp 2 Reservoir	Tuy Duc	Quảng Tân	Service area 650 ha	2021 - 2025	120,000	Unidentified	Conceptual Plan
96	New construction Village No. 3 Quảng Tân Reservoir	Tuy Duc	Quảng Tân	Service area 180 ha	2021 - 2025	28,800	Unidentified	Conceptual Plan
97	New construction Village No. 1A Reservoir	Dak G'Long	Quảng Sơn	Service area 100 ha	2021 - 2025	16,000	Unidentified	Conceptual Plan
III	Domestic Water Supply							
1	Nhan Co domestic water supply system (stage 1)	Dak R'Lap	Nhan Co	Upgrading and widening for Gia Nghia's domestic water system (from 2000m ³ /day to 5000m ³ /day); Widening service area of Gia Nghia water plan, construct the distributed network pile line (D400 (5km), D300(3km), D200(2km), D150(5km), D100(8km) D63(15km) - Beneficiaries 10.000 local resident + 4.000 workers at Nhan Co industrial park;	2018 - 2025	40,000	ODA	Pre-F/S
2	Upgrading and widening domestic water system at Kien Duc, Kien Thanh commune - (stage 2)	Dak R'Lap	Kien Duc town and Kien Thanh	- New construction raw pile line from Kien Thanh lake. Upgrading capacity of water plant from 1000m ³ /day to 2000m ³ /day. - New construction distributed pile line network: D200 (1.5km), D150 (6km), D100 (10km) D63 (10km). - Number of beneficiaries 15.000 people;	2018 - 2025	30,000	ODA	Pre-F/S
3	Upgrading domestic water system at Ea Ting town, Tam Thang, Truc Son, Nam Dong commune (stage 2)	Cu Jut	Ea Ting town, Tam Thang, Truc Son, Nam Dong	- Construct the water plant, capacity 3000m ³ /day and pile line from Krông Nô and Sêrê Pok river; - Raw water pile line: D300 (0.3km), distributed pile line network: D300 (3km), D200 (4km), D150 (10km), D100 (10km), D63 (15km); - Number of beneficiaries 25.000 people;	2018 - 2025	35,000	ODA	Pre-F/S
4	Upgrading and widening domestic water system at Duc An town and Nam Binh, Nam Jang commune	Dak Song	Duc An town and Nam Binh Nam Jang commune	- Upgrading Duc An town domestic water plant from 1000m ³ /day to 2000m ³ /day. - Source: Duc An reservoir; New conducted pile and distributed pile line network: conducted pile D200 (0.4km), distributed pile line network D200 (5km), D150 (8km), D100 (10km) D63 (15km). - Number of beneficiaries 15.000;	2018 - 2025	30,000	ODA	Pre-F/S
5	Upgrading and widening domestic water system of Dak Mam town and Nam Dan, Dak Ro commune	Krong No	Dak Mam town and Nam Dan Dak Ro commune	- Upgrading Dak Mam water plant from 1000m ³ /day to 2000m ³ /day; - Construct new raw pile from Dak Ro reservoir D250 (5km), and distributed network: D200 (4km), D150 (8km), D100 (8km) D63 (10km). - Number of beneficiaries 15.000.	2018 - 2025	30,000	ODA	Pre-F/S
6	Upgrading and widening domestic water system of Dak Mil town	Dak Mil	Dak Mil town	- Upgrading capacity of existing domestic water plant from 2000m ³ /day to 10000m ³ /day (năm 2020); - Construct distributed network for Dak Mil and nearby communes;	2020 - 2025	20,000	Private company	Conceptual Plan
7	Upgrading and widening domestic water system of Quang Khe commune	Dak G'Long	Quang Khe	- Upgrading capacity of existing domestic water plant from 700m ³ /day to 35000m ³ /day (năm 2020); - Construct distributed network for Quang Khe and nearby communes;	2020 - 2025	12,000	Private company	Conceptual Plan
8	New construction domestic water system at Dak Buso commune	Tuy Duc	Dak Buso	Construct new domestic water plant in Dak Buso commune, design capacity 4000m ³ /day and distributed network;	2020 - 2025	15,000	Private company	Conceptual Plan
IV	Electricity Distribution							
1	Upgrading the medium voltage network in Dak Nong province, period 2016 - 2020 (under 35kV)	whole province		- New construction 656 transformers of medium voltage network, total capacity 78.915 kVA; Upgrading 66 transformers, additional capacity 9.990kVA; - New construction 445.4km and upgrading 334.8 km medium voltage network;	2016 - 2020	862,600	Provincial Budget	Conceptual Plan
2	Upgrading the medium voltage network in Dak Nong province, period 2021 - 2025 (under 35kV)	whole province		- New construction 353 transformers of medium voltage network, total capacity 53.495kVA; Upgrading 392 transformers, additional capacity 83.700kVA; - New construction 203.9km and upgrading 161.6 km medium voltage network;	2021 - 2025	536,000	Provincial Budget	Conceptual Plan
3	Upgrading the low voltage network in Dak Nong province, period 2016 - 2020	whole province		- New construction 753km an upgrading 90.7km domestic network; - Installation 27260 electricity meter;	2016 - 2020	397,200	Provincial Budget	Conceptual Plan
4	Upgrading the low voltage network in Dak Nong province, period 2021 - 2025	whole province		- New construction 643.2km an upgrading 291.9km domestic network; - Installation 27490 electricity meter;	2021 - 2025	440,200	Provincial Budget	Conceptual Plan
5	New construction Đức An sun power project	Dak Song		New construction Sun power Plant in Duc An town, capacity 30MW	2016 - 2020	13,900	Other sources	Conceptual Plan
V	Prevention and Mitigation of natural disasters							
1	Landslide prevention on national highway and provincial road	whole province		Surveying, preparation and construction landslide prevention structure on national highway and provincial roads, specially NH. 28;	2016 - 2020	2,000	Government budget	Conceptual Plan
2	Construction temporary bridges and cable-stayed bridges into flood areas in rainy season	whole province		Surveying, preparation and construction temporary bridges and cable-stayed bridges into flood areas in rainy season;	2016 - 2020	10,000	Government budget	Conceptual Plan
3	Construction refuged roads	whole province		Surveying, preparation and construction refuged roads	2016 - 2020	40,000	Government budget	Conceptual Plan
4	Upgrading important roads (these are destroyed in the rainy season)	whole province		Surveying, preparing for upgrading flood sections on important roads in rainy season	2016 - 2020	30,000	Government budget	Conceptual Plan
VI	Other Sector							
1	Construction Đắk Sông Land Fill	Dak Song	Duc An town	- Construction land fill and domestic waste treatment, design capacity 50.000 m ³ /year; - Service area: Duc An town, Nam Binh, Truong Xuan and Nam Jang commune; - Basic items: 3km cement concrete road and protection fence;	2018 - 2025	25,000	ODA	Pre-F/S

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
2	Widening waste water collection network of Gia Nghia town	Gia Nghia		Widening the waste water collector system in Gia Nghia town. New construction 8km (D300) pile line to conduct waste water to Gia Nghia treatment plant and connection to 1500 beneficiaries.	2018 - 2025	20,000	ODA	Pre-F/S
43 - Lam Dong Province								
I	Road and Bridges							
1	Project for Upgrading and Widening NH.55, section: Km205+140 - Km229+140	Duc Trong, Don Duong		Length of Road 23,16km; Class of Road III-Mountain area	2016 - 2020	697,400	Corporation Stock	F/S
2	New construction NH.27 Project, section: Lien Khuong Airport by-pass	Duc Trong	Lien Nghia	Length of Road 6,2km; Class of Road III-Mountain area	2016 - 2020	193,315	Corporation Stock	F/S
3	New construction Express way, section: Dau Giay - Lien Khuong	Bao Loc, Duc Trong		Length of Road 200.3km; Express way, class A	2016 - 2020	65,365,000	BOT, ODA	Pre-F/S
4	Upgrading Project of NH.27, section: Km83 - Km174	Dam Rong, Lam Ha, Duc Trong		Length of Road 80,3km; Class of Road IV-Mountain area;	2016 - 2020	1,685,000	Corporation Stock	F/S
5	Project for Upgrading and Widening NH.28B (Luong Som - Dai Ninh), section: Km11+000 - Km67+400.	Duc Trong		Length of Road 18km (section Lam Dong Province); Class: III, IV;	2016 - 2020	400,000	Corporation Stock	
6	NH.20, section: By-pass Dalat City	Da Lat		Urban Road and National highway, Class: III, IV-Mountain area, length = 29,1km;	2016 - 2020	1,300,000	National Budget	F/S
7	New construction 83 bridges on Rural roads (LRAMP)	Whole province		78 reinforced concrete bridges and 05 cable-stayed bridges	2016 - 2020	144,000	WB	DD
8	Project for Upgrading and Widening NH.27, section: Km174 - Km272+800, Lam Dong and Binh Thuan (2nd stage)	Duc Trong, Don Duong		Length of section 98.8km; Class IV-Mountain area	2016 - 2020	760,459	Corporation Stock	DD
9	Project for Upgrading and Widening NH.28 (from Binh Thuan to Dak Nong)	Di Linh		Length of Road 179,8 km; Class: IV-Mountain area	2021 - 2025	1,133,000	National Budget	Pre-F/S
10	Project for Upgrading and Widening NH.27C	Da Lat, Lac Duong		Length of Road 86km; Class: III-Mountain area	2021 - 2025	980,000	National Budget	Conceptual Plan
11	Rehabilitaion Quang Khê - Tân Rai Road	Bao Lam, Bao Loc		Length of Road 66 km	2021 - 2025	1,470,000	National Budget	Conceptual Plan
12	Upgrading and Rehabilitation bridge No. 3, 4, 6 and 7 on Lien Hung - Dam Ron road			04 reinforced concrete bridges	2016 - 2020	40,496	Provincial Budget	Completion
13	Upgrading the railway bypass bridge on Tran Quy Cap street, ward No. 9, Da Lat city;	Da Lat		02 new bridges both side of existing bridge	2016 - 2020	6,280	Provincial Budget	DD
14	New construction road from Tân Rai bauxite mine to NH.20, section: by-pass Bao Loc city.	Bao Lam		Length of Road 24,045km; Class of Road III-Mountain area;	2016 - 2020	1,248,020	National Budget, Provincial Budget	DD
15	New construction Ka Đô bridge project	Don Duong		Reinforced concrete bridge, L=148m	2016 - 2020	81,009	National Budget	DD
16	Project for Replacement 09 cable-stayed bridges	Da Huoi, Bao Lam, Di Linh, Dam Rong and Bao Loc		Replace 09 old cable-stayed bridges	2016 - 2020	46,624	Provincial Budget	DD
17	Upgrading PR.724 and existing bridges on PR.721			Class of Road IV-Mountain area, length of road 49,2km	2016 - 2020	2,000,000	Corporation Stock	Conceptual Plan
18	Upgrading PR.722, section: Đưng K'Nó to Đa Tông commune	Dam Rong, Lac Duong		Class of Road IV-Mountain area, length of road 17,3km	2016 - 2020	1,100,000	ODA	Conceptual Plan
19	New construction PR.727, section Don Duong district	Don Duong		Class of Road IV-Mountain area, length 41km	2016 - 2020	818,000	National Budget	F/S
20	New construction PR.729	Don Duong, Duc Trong		Class of Road IV-Mountain area, length 54km	2016 - 2020	995,000	Corporation Stock	Pre-F/S
21	Ring road of Dalat City	Da Lat		Urban Road and mountain road, Class of Road IV-Mountain area, length 54,4km	2021 - 2025	1,700,000	Provincial Budget	Conceptual Plan
22	Project for Upgrading and Widening PR.726			Class of Road IV-Mountain area, length of road 155 km	2021 - 2025	1,305,000	Provincial Budget	F/S
23	Replacement and Rehabilitation weak bridges on provincial roads	Whole province		06 reinforced bridges, including: Ong Thiêu; Ba Cán; Đa Long (L=71m); Bridge No. 2, Hòa Ninh - Hòa Nam - Hòa Bắc road (L=26m); La On bridge (Đình Trang Hòa - Hòa Trung - Hòa Bắc road), L=20m; Bridge of resident area No. 12 - Ma Đa guoi town (L=33m);	2021 - 2025	176,089	ODA	DD
24	Urban Rainway, line Da Lat - Suối Vàng	Da Lat		L=19km	2021 - 2025	8,797	PPP	Pre-F/S
25	Urban Rainway, line Da Lat - Tuyền Lâm lake	Da Lat		L=15.78km	2021 - 2025	7,503	PPP	Pre-F/S
26	Urban Rainway, line Suối Vàng - Lang Bang	Da Lat		L=9km	2021 - 2025	4,066	PPP	Pre-F/S
27	Urban Rainway, line Da Lat - Valley of Love	Da Lat		L=6.9km	2021 - 2025	3,281	PPP	Pre-F/S
28	Urban Rainway, line Hồ Xuân Hương station - Tùng Lâm intersection	Da Lat		L=12km	2021 - 2025	5,563	PPP	Pre-F/S
29	Urban Rainway, line Da Lat - Liên Khuong Airport	Da Lat, Duc Trong		L=28.2km	2021 - 2025	13,409	PPP	Pre-F/S
II	Irrigation							
1	Upgrading Thành Lộc Reservoir	Da Lat		Increased irrigated area, S=225ha, source of water: Da Nhim river;	2016 - 2020	12,170	Provincial Budget	Conceptual Plan
2	Dredging Hoàn Kiếm II Reservoir	Lam Ha		Increased irrigated area, S=120ha, source of water: Da Dung river;	2016 - 2020	5,000	Provincial Budget	Conceptual Plan
3	Upgrading Ong Dir Reservoir	Bao Loc		Increased irrigated area, S=230ha, source of water: Da Huoi river	2016 - 2020	5,500	Provincial Budget	Conceptual Plan
4	Upgrading Thôn 8 (Đamb'ri) Reservoir	Bao Loc		Increased irrigated area, S=210ha, source of water: Da Huoi river	2016 - 2020	6,700	Provincial Budget	Conceptual Plan
5	Upgrading Ong Sâm Reservoir	Bao Loc		Increased irrigated area, S=135ha, source of water: Da Huoi river	2016 - 2020	4,500	Provincial Budget	Conceptual Plan
6	Upgrading Village No. 5 (Đamb'ri) Reservoir	Bao Loc		Increased irrigated area, S=110ha, source of water: La Nga river	2016 - 2020	3,100	Provincial Budget	Conceptual Plan
7	New construction Đa Đum 2 Reservoir	Lac Duong		Increased irrigated area, S=173ha, source of water: Da Nhim river; Domestic WS 1000 m ³ /day.night	2016 - 2020	10,760	Provincial Budget	Conceptual Plan
8	New construction Lăng Tranh 2 water-raising Dam	Lac Duong		Increased irrigated area, S=130ha, source of water: Da Nhim river	2016 - 2020	6,770	Provincial Budget	Conceptual Plan
9	New construction Đa Chais North Dam	Lac Duong		Increased irrigated area, S=98ha, source of water: Da Nhim river; Domestic WS 1000 m ³ /day.night;	2016 - 2020	5,140	Provincial Budget	Conceptual Plan
10	New construction K'Long Ôn water-raising Dam	Lac Duong		Increased irrigated area, S=243ha, source of water: Da Nhim river;	2016 - 2020	9,990	Provincial Budget	Conceptual Plan
11	New construction Nam Long Lanh Reservoir	Lac Duong		Increased irrigated area, S=150ha, source of water: Da Nhim river; Domestic WS 1000m ³ /day.night;	2016 - 2020	8,190	Provincial Budget	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
12	New construction Tây Long Lanh water-raising Dam	Lac Duong		Increased irrigated area, S=130ha, source of water: Da Nhim river; Domestic WS 2000m ³ /day.night;	2016 - 2020	7,920	Provincial Budget	Conceptual Plan
13	New construction Đông Long Lanh Reservoir	Lac Duong		Increased irrigated area, S=265ha, source of water: Da Nhim river	2016 - 2020	13,200	Provincial Budget	Conceptual Plan
14	New construction Đưng Tô Bờ 1 Reservoir	Lac Duong		Increased irrigated area, S=120ha, source of water: Da Nhim river	2016 - 2020	7,370	Provincial Budget	Conceptual Plan
15	New construction Lăng Tranh 1 Reservoir	Lac Duong		Increased irrigated area, S=240ha, source of water: Da Nhim river; Domestic WS 2000m ³ /day.night;	2016 - 2020	1,220	Provincial Budget	Conceptual Plan
16	New construction Đa Đum water-raising Dam	Lac Duong		Increased irrigated area, S=250ha, source of water: Da Nhim river	2016 - 2020	7,800	Provincial Budget	Conceptual Plan
17	New construction Tiên Liêng Reservoir	Lac Duong		Increased irrigated area, S=182ha, source of water: Da Nhim river	2016 - 2020	11,770	Provincial Budget	Conceptual Plan
18	New construction Gia Rit 1 Reservoir	Lac Duong		Increased irrigated area, S=184ha, source of water: Da Dung river	2016 - 2020	12,250	Provincial Budget	Conceptual Plan
19	New construction Gia Rit 2 Reservoir	Lac Duong		Increased irrigated area, S=425ha, source of water: Da Dung river	2016 - 2020	17,530	Provincial Budget	Conceptual Plan
20	New construction B Nờ A Reservoir	Lac Duong		Increased irrigated area, S=256ha, source of water: Da Dung river	2016 - 2020	8,350	Provincial Budget	Conceptual Plan
21	New construction Tây Đan Kia Reservoir	Lac Duong		Increased irrigated area, S=450ha, source of water: Da Dung river	2016 - 2020	20,170	Provincial Budget	Conceptual Plan
22	New construction Liang Bian Reservoir	Lac Duong		Increased irrigated area, S=317ha, source of water: Da Dung river; Combining of tourist landscapes;	2016 - 2020	18,850	Provincial Budget	Conceptual Plan
23	New construction An Binh Reservoir	Da Lat		Increased irrigated area, S=120ha, source of water: Da Nhim river	2016 - 2020	19,489	Provincial Budget	Conceptual Plan
24	New construction Phó Trong (Diệp Lai) Reservoir	Don Duong		Increased irrigated area, S=300ha, source of water: Da Nhim river	2016 - 2020	21,800	Provincial Budget	Conceptual Plan
25	New construction N.Trường Phi Vàng Reservoir	Don Duong		Increased irrigated area, S=200ha, source of water: Da Nhim river	2016 - 2020	12,400	Provincial Budget	Conceptual Plan
26	New construction R'Lôm Reservoir	Don Duong		Increased irrigated area, S=300ha, source of water: Da Nhim river	2016 - 2020	20,300	Provincial Budget	Conceptual Plan
27	New construction Lạc Xuân Reservoir	Don Duong		Increased irrigated area, S=150ha, source of water: Da Nhim river	2016 - 2020	13,758	Provincial Budget	Conceptual Plan
28	New construction Phú Hội (Industrial zone) Reservoir	Duc Trong		Increased irrigated area, S=200ha, source of water: Da Nhim river	2016 - 2020	17,700	Provincial Budget	Conceptual Plan
29	New construction Đa Brela Dam	Duc Trong		Increased irrigated area, S=250ha, source of water: Da Nhim river	2016 - 2020	12,300	Provincial Budget	Conceptual Plan
30	New construction Đa Cho Mo Dam (down stream)	Lam Ha		Increased irrigated area, S=200ha, source of water: Da Dung river	2016 - 2020	12,900	Provincial Budget	Conceptual Plan
31	New construction Đ.Tiao Dam and Reservoir	Lam Ha		Increased irrigated area, S=350ha, source of water: Da Dung river	2016 - 2020	21,500	Provincial Budget	Conceptual Plan
32	New construction Đa Linh Đình Reservoir	Lam Ha		Increased irrigated area, S=200ha, source of water: Da Dung river	2016 - 2020	15,300	Provincial Budget	Conceptual Plan
33	New construction Đa Pirr Reservoir	Lam Ha		Increased irrigated area, S=300ha, source of water: Da Dung river	2016 - 2020	21,800	Provincial Budget	Conceptual Plan
34	New construction Cam Ly 2 Dam	Lam Ha		Increased irrigated area, S=450ha, source of water: Da Dung river	2016 - 2020	30,468	Provincial Budget	Conceptual Plan
35	New construction Cam Ly 3 Dam	Lam Ha		Increased irrigated area, S=300ha, source of water: Da Dung river	2016 - 2020	21,500	Provincial Budget	Conceptual Plan
36	New construction Sóc Sơn Reservoir	Lam Ha		Increased irrigated area, S=300ha, source of water: Da Dung river	2016 - 2020	17,100	Provincial Budget	Conceptual Plan
37	New construction Villahé No.5 Tân Hà Reservoir	Lam Ha		Increased irrigated area, S=300ha, source of water: Dong Nai river; Domestic water supply 500m ³ /day.night;	2016 - 2020	15,600	Provincial Budget	Conceptual Plan
38	New construction Thạch Tân (Đa Toutat) Reservoir	Lam Ha		Increased irrigated area, S=250ha, source of water: Dong Nai river	2016 - 2020	15,000	Provincial Budget	Conceptual Plan
39	New construction Tân Thanh Reservoir	Lam Ha		Increased irrigated area, S=200ha, source of water: Dong Nai river; Domestic water supply 500m ³ /day.night;	2016 - 2020	12,600	Provincial Budget	Conceptual Plan
40	New construction Village No. 1 Hoài Đức Reservoir	Lam Ha		Increased irrigated area, S=250ha, source of water: Dong Nai river; Domestic water supply 1000m ³ /day.night;	2016 - 2020	12,400	Provincial Budget	Conceptual Plan
41	New construction Village No. 7 Tân Thanh Reservoir	Lam Ha		Increased irrigated area, S=300ha, source of water: Dong Nai river	2016 - 2020	16,800	Provincial Budget	Conceptual Plan
42	New construction Village No. 5 Tân Thanh Reservoir	Lam Ha		Increased irrigated area, S=350ha, source of water: Dong Nai river	2016 - 2020	20,000	Provincial Budget	Conceptual Plan
43	New construction Dak Ton Reservoir (down stream)	Dam Rong		Increased irrigated area, S=590ha, source of water: Sông KRông Nô; Domestic water supply 1000m ³ /day.night;	2016 - 2020	36,700	Provincial Budget	Conceptual Plan
44	New construction Đar Sal Dam (down stream)	Dam Rong		Increased irrigated area, S=200ha, source of water: Sông KRông Nô	2016 - 2020	12,400	Provincial Budget	Conceptual Plan
45	New construction Đa Poul (Đa NaHut) Reservoir	Dam Rong		Increased irrigated area, S=400ha, source of water: Da Dung river	2016 - 2020	24,300	Provincial Budget	Conceptual Plan
46	New construction Đa Bo Deung Reservoir	Dam Rong		Increased irrigated area, S=400ha, source of water: Da Dung river	2016 - 2020	29,700	Provincial Budget	Conceptual Plan
47	New construction Đak Nang 1 Reservoir	Dam Rong		Increased irrigated area, S=600ha, source of water: Da Dung river	2016 - 2020	40,500	Provincial Budget	Conceptual Plan
48	New construction KouKlang Reservoir	Dam Rong		Increased irrigated area, S=250ha, source of water: Da Dung river	2016 - 2020	14,800	Provincial Budget	Conceptual Plan
49	New construction Tân Châu Reservoir	Di Linh		Increased irrigated area, S=1000ha, source of water: La Nga river	2016 - 2020	29,700	Provincial Budget	Conceptual Plan
50	New construction Sebial Reservoir	Di Linh		Increased irrigated area, S=400ha, source of water: La Nga river	2016 - 2020	15,800	Provincial Budget	Conceptual Plan
51	New construction Lâm Phú 3 Reservoir	Di Linh		Increased irrigated area, S=600ha, source of water: La Nga river; Domestic water supply 300m ³ /day.night;	2016 - 2020	25,700	Provincial Budget	Conceptual Plan
52	New construction ĐaBoHo Reservoir	Di Linh		Increased irrigated area, S=600ha, source of water: La Nga river	2016 - 2020	18,200	Provincial Budget	Conceptual Plan
53	New construction ĐaJiat 1 Reservoir	Di Linh		Increased irrigated area, S=300ha, source of water: La Nga river	2016 - 2020	11,700	Provincial Budget	Conceptual Plan
54	New construction ĐaJiat 2 Reservoir	Di Linh		Increased irrigated area, S=300ha, source of water: La Nga river	2016 - 2020	10,500	Provincial Budget	Conceptual Plan
55	New construction ĐagNon 1 Reservoir	Di Linh		Increased irrigated area, S=400ha, source of water: La Nga river; Domestic water supply 200m ³ /day.night;	2016 - 2020	16,300	Provincial Budget	Conceptual Plan
56	New construction ĐaTran Reservoir	Di Linh		Increased irrigated area, S=200ha, source of water: La Nga river	2016 - 2020	7,800	Provincial Budget	Conceptual Plan
57	New construction ĐakDion 1 Reservoir	Di Linh		Increased irrigated area, S=300ha, source of water: La Nga river	2016 - 2020	11,300	Provincial Budget	Conceptual Plan
58	New construction ĐakDion 2 Reservoir	Di Linh		Increased irrigated area, S=300ha, source of water: La Nga river	2016 - 2020	12,200	Provincial Budget	Conceptual Plan
59	New construction ĐagNon 3 Reservoir	Di Linh		Increased irrigated area, S=250ha, source of water: La Nga river	2016 - 2020	11,200	Provincial Budget	Conceptual Plan
60	New construction ĐaNian 2 Reservoir	Di Linh		Increased irrigated area, S=800ha, source of water: La Nga river; Domestic water supply 300m ³ /day.night;	2016 - 2020	27,100	Provincial Budget	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
61	New construction ĐaNour Reservoir	Di Linh		Increased irrigated area, S=200ha, source of water: La Nga river	2016 - 2020	8,500	Provincial Budget	Conceptual Plan
62	New construction Đaour 5 Reservoir	Di Linh		Increased irrigated area, S=500ha, source of water: La Nga river; Domestic water supply 250m ³ /day.night;	2016 - 2020	21,600	Provincial Budget	Conceptual Plan
63	New construction ĐaNihon 1 Reservoir	Di Linh		Increased irrigated area, S=300ha, source of water: La Nga river	2016 - 2020	10,800	Provincial Budget	Conceptual Plan
64	New construction ĐaTouBak Reservoir	Di Linh		Increased irrigated area, S=350ha, source of water: La Nga river	2016 - 2020	12,600	Provincial Budget	Conceptual Plan
65	New construction ĐaBao Reservoir	Di Linh		Increased irrigated area, S=900ha, source of water: La Nga river; Domestic water supply 300m ³ /day.night;	2016 - 2020	29,900	Provincial Budget	Conceptual Plan
66	New construction ĐaRSa Reservoir	Di Linh		Increased irrigated area, S=400ha, source of water: La Nga river; Domestic water supply 300m ³ /day.night;	2016 - 2020	16,600	Provincial Budget	Conceptual Plan
67	New construction Đansirr Reservoir	Di Linh		Increased irrigated area, S=380ha, source of water: La Nga river; Domestic water supply 200m ³ /day.night;	2016 - 2020	17,800	Provincial Budget	Conceptual Plan
68	New construction Tân Nghia Reservoir	Di Linh		Increased irrigated area, S=300ha, source of water: La Nga river; Domestic water supply 200m ³ /day.night;	2016 - 2020	11,800	Provincial Budget	Conceptual Plan
69	New construction Đa Lênh Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: Dong Nai river	2016 - 2020	14,600	Provincial Budget	Conceptual Plan
70	New construction Đa Bum Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: Dong Nai river	2016 - 2020	12,400	Provincial Budget	Conceptual Plan
71	New construction Đa Buot Reservoir	Bao Lam		Increased irrigated area, S=250ha, source of water: Dong Nai river	2016 - 2020	11,700	Provincial Budget	Conceptual Plan
72	New construction Đara Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: Dong Nai river	2016 - 2020	18,700	Provincial Budget	Conceptual Plan
73	New construction Đano Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: Dong Nai river	2016 - 2020	12,700	Provincial Budget	Conceptual Plan
74	New construction Village No. 2 (Bao Loc) Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river; Domestic water supply 100m ³ /day.night;	2016 - 2020	18,500	Provincial Budget	Conceptual Plan
75	New construction Cầu 3 Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: La Nga river; Domestic water supply 200m ³ /day.night;	2016 - 2020	10,900	Provincial Budget	Conceptual Plan
76	New construction Đa Su Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: Dong Nai river	2016 - 2020	12,600	Provincial Budget	Conceptual Plan
77	New construction Cầu 2 (down stream) Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: La Nga river;	2016 - 2020	17,800	Provincial Budget	Conceptual Plan
78	New construction ĐaGna 1 Reservoir	Bao Lam		Increased irrigated area, S=1000ha, source of water: La Nga river;	2016 - 2020	34,500	Provincial Budget	Conceptual Plan
79	New construction ĐaGna 2 Reservoir	Bao Lam		Increased irrigated area, S=600ha, source of water: La Nga river;	2016 - 2020	19,700	Provincial Budget	Conceptual Plan
80	New construction Đarecou Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: La Nga river;	2016 - 2020	11,800	Provincial Budget	Conceptual Plan
81	New construction TongkRông Dam	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	12,700	Provincial Budget	Conceptual Plan
82	New construction ĐaNos1 Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	16,700	Provincial Budget	Conceptual Plan
83	New construction ĐaNos 2 Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	11,800	Provincial Budget	Conceptual Plan
84	New construction ĐaNha Reservoir	Bao Lam		Increased irrigated area, S=1500ha, source of water: La Nga river; Domestic water supply 300m ³ /day.night;	2016 - 2020	48,800	Provincial Budget	Conceptual Plan
85	New construction ĐaKongPôt Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: La Nga river;	2016 - 2020	15,700	Provincial Budget	Conceptual Plan
86	New construction ĐaNos 4 Reservoir	Bao Lam		Increased irrigated area, S=600ha, source of water: La Nga river;	2016 - 2020	22,600	Provincial Budget	Conceptual Plan
87	New construction Đa Kim Reservoir	Bao Lam		Increased irrigated area, S=600ha, source of water: La Nga river;	2016 - 2020	17,600	Provincial Budget	Conceptual Plan
88	New construction Đa Gle Reservoir	Bao Lam		Increased irrigated area, S=700ha, source of water: La Nga river;	2016 - 2020	25,700	Provincial Budget	Conceptual Plan
89	New construction An Hòa 1 Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	10,600	Provincial Budget	Conceptual Plan
90	New construction Đardan Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: La Nga river;	2016 - 2020	18,500	Provincial Budget	Conceptual Plan
91	New construction ĐaDRin Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	11,200	Provincial Budget	Conceptual Plan
92	New construction Village No. 3 (Lộc An) Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	14,800	Provincial Budget	Conceptual Plan
93	New construction Tứ Quý Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: La Nga river;	2016 - 2020	13,700	Provincial Budget	Conceptual Plan
94	New construction ĐardNom 2 Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: La Nga river; Domestic water supply 250m ³ /day.night;	2016 - 2020	20,600	Provincial Budget	Conceptual Plan
95	New construction Đard Lôm (Village No.12) Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river; Domestic water supply 200m ³ /day.night;	2016 - 2020	11,200	Provincial Budget	Conceptual Plan
96	New construction Tân Lạc Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: La Nga river;	2016 - 2020	17,700	Provincial Budget	Conceptual Plan
97	New construction Đại Hội Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	18,700	Provincial Budget	Conceptual Plan
98	New construction ĐaBri Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: La Nga river;	2016 - 2020	10,400	Provincial Budget	Conceptual Plan
99	New construction Đa Mi 2 Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	17,700	Provincial Budget	Conceptual Plan
100	New construction Village No. 1B (Lộc Quảng) Reservoir	Bao Lam		Increased irrigated area, S=250ha, source of water: La Nga river;	2016 - 2020	10,400	Provincial Budget	Conceptual Plan
101	New construction Bla 2B Reservoir	Bao Lam		Increased irrigated area, S=400ha, source of water: Da Huoi river	2016 - 2020	16,600	Provincial Budget	Conceptual Plan
102	New construction Đaonsiat Reservoir	Bao Lam		Increased irrigated area, S=600ha, source of water: Da Huoi river	2016 - 2020	23,500	Provincial Budget	Conceptual Plan
103	New construction Zone 6 Reservoir	Bao Lam		Increased irrigated area, S=500ha, source of water: Da Huoi river; Domestic water supply 250m ³ /day.night;	2016 - 2020	24,500	Provincial Budget	Conceptual Plan
104	New construction Đaatial Reservoir	Bao Lam		Increased irrigated area, S=300ha, source of water: Da Huoi river; Domestic water supply 200m ³ /day.night;	2016 - 2020	13,500	Provincial Budget	Conceptual Plan
105	New construction 828 Reservoir	Bao Loc		Increased irrigated area, S=300ha, source of water: La Nga river;	2016 - 2020	10,900	Provincial Budget	Conceptual Plan
106	New construction Đại Bình Reservoir	Bao Loc		Increased irrigated area, S=500ha, source of water: La Nga river;	2016 - 2020	20,400	Provincial Budget	Conceptual Plan
107	New construction 903 Reservoir	Bao Loc		Increased irrigated area, S=300ha, source of water: La Nga river;	2016 - 2020	11,600	Provincial Budget	Conceptual Plan
108	New construction 865 Reservoir	Bao Loc		Increased irrigated area, S=350ha, source of water: La Nga river;	2016 - 2020	11,800	Provincial Budget	Conceptual Plan

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
09	New construction 845 Reservoir	Bao Loc		Increased irrigated area, S=300ha, source of water: La Nga river;	2016 - 2020	10,200	Provincial Budget	Conceptual Plan
10	New construction Dam Rong 2 Reservoir	Bao Loc		Increased irrigated area, S=400ha, source of water: La Nga river;	2016 - 2020	14,800	Provincial Budget	Conceptual Plan
11	New construction Dam Rong 3 Reservoir	Bao Loc		Increased irrigated area, S=500ha, source of water: La Nga river;	2016 - 2020	19,700	Provincial Budget	Conceptual Plan
12	New construction ĐabLan 2 Reservoir	Bao Loc		Increased irrigated area, S=350ha, source of water: Da Huoai river;	2016 - 2020	10,600	Provincial Budget	Conceptual Plan
13	New construction village No.10 (ĐamBri) Reservoir	Bao Loc		Increased irrigated area, S=350ha, source of water: Da Huoai river;	2016 - 2020	11,200	Provincial Budget	Conceptual Plan
14	New construction ĐaNarr Reservoir	Da Huoai		Increased irrigated area, S=200ha, source of water: Da Huoai river; Domestic water supply 100m ³ /day.night;	2016 - 2020	16,500	Provincial Budget	Conceptual Plan
15	New construction ĐaM'bri Dam	Da Huoai		Increased irrigated area, S=800ha, source of water: Da Huoai river; Domestic water supply 200m ³ /day.night;	2016 - 2020	48,900	Provincial Budget	Conceptual Plan
16	New construction Đa Sĩ Dam	Da Huoai		Increased irrigated area, S=225ha, source of water: Da Huoai river; Domestic water supply 100m ³ /day.night;	2016 - 2020	12,100	Provincial Budget	Conceptual Plan
17	New construction village No. 5 Pumping station (Đa Oai)	Da Huoai		Increased irrigated area, S=300ha, source of water: Da Huoai river;	2016 - 2020	12,500	Provincial Budget	Conceptual Plan
18	New construction Đa Nhar Reservoir	Da Teh		Increased irrigated area, S=800ha, source of water: Dong Nai river, combining with tourist landscape;	2016 - 2020	58,900	Provincial Budget	Conceptual Plan
19	New construction ĐaMiss Reservoir	Da Teh		Increased irrigated area, S=350ha, source of water: Dong Nai river;	2016 - 2020	25,700	Provincial Budget	Conceptual Plan
20	New construction Đariong Reservoir	Da Teh		Increased irrigated area, S=137ha, source of water: Dong Nai river;	2016 - 2020	11,200	Provincial Budget	Conceptual Plan
III	Domestic water supply							
1	Upgrading capacity of Bao Loc city domestic water system	Bao Loc		Additional capacity 20.000m ³ /day	2016 - 2020	180,000	Provincial Budget	Pre-F/S
2	Widening service area of Bao Loc domestic water supply	Bao Loc		New construction and upgrading existing network pile line to beneficiaries: 15.000m D100 ~ 250mm pile	2016 - 2020	38,000	Provincial Budget	Pre-F/S
3	New construction and upgrading existing domestic water plants in overal province	whole province		Additional capacity 16.000 m ³ /day	2016 - 2020	150,000	Provincial Budget	Pre-F/S
4	Widening service area of Da Lat domestic water supply to neighbor area	Da Lat, Lac Duong	Lien Nghia, Lien Khuong, Lac Duong	Total additional capacity of existing domestic water supply systems 30.000m ³ /day	2021 - 2025	400,000	Provincial Budget	Pre-F/S
5	Widening service area of Bao Loc domestic water supply	Bao Loc		Additional capacity 16.000 m ³ /day	2021 - 2025	100,000	Provincial Budget	Pre-F/S
6	Rehabilitation and upgrading existing domestic water plants in overal province	whole province		Total additional capacity of existing domestic water supply systems 25.000m ³ /day	2021 - 2025	320,000	Provincial Budget	Pre-F/S
IV	Electricity Distribution							
1	Upgrading Infrastructure of Electricity - Da Lat City	Da Lat		- Medium Voltage system: New construction 27.2km and Upgrading 8.6km line. New construction and Upgrading 43 Transformer station, total capacity 13110 kVA; - Low Voltage System: New construction 32.7km and Upgrading 3.5km line, installation 5977 electricity meters;	2016 - 2020	51,003	Provincial Budget	Pre-F/S
2	Upgrading Infrastructure of Electricity - Dam Rong District	Dam Rong		- Medium Voltage system: New construction 50.3km line and 07 transformer stations, total capacity 175 kVA; - Low Voltage System: New construction 32.2km and installation 695 electricity meters;	2016 - 2020	22,269	Provincial Budget	Pre-F/S
3	Upgrading Infrastructure of Electricity - Don Duong District	Don Duong		- Medium Voltage system: New construction 68.7km and Upgrading 2.5km line. New construction and 76 transformer, total capacity 5615 kVA; - Low Voltage System: New construction 61.9km và cải tạo 25.8km đường dây, lắp đặt 2694 electricity meters;	2016 - 2020	55,093	Provincial Budget	Pre-F/S
4	Upgrading Infrastructure of Electricity - Duc Trong District	Duc Trong		- Medium Voltage system: New construction 43.9km and 25 transformers, total capacity 1150 kVA; - Low Voltage System: New construction 43.8km and installation 1183 electricity meters;	2016 - 2020	26,781	Provincial Budget	Pre-F/S
5	Upgrading Infrastructure of Electricity - Lac Duong District	Lac Duong		- Medium Voltage system: New construction 45.2km and 16 transformer, total capacity 1612.5 kVA; - Low Voltage System: New construction 19.9km and installation 756 electricity meters;	2016 - 2020	15,000	Provincial Budget	Pre-F/S
6	Upgrading Infrastructure of Electricity - Lam Ha District	Lam Ha		- Medium Voltage system: New construction 68km and 48 transformers, total capacity 1572.5 kVA; - Low Voltage System: New construction 201.8km and installation 4544 electricity meters;	2016 - 2020	79,206	Provincial Budget	Pre-F/S
7	Upgrading Infrastructure of Electricity - Bao Loc City	tp Bao Loc		- Medium Voltage system: New construction 48.5km, Upgrading 19.7km line. New construction and Externition 55 transformers, total capacity 3772.5 kVA; - Low Voltage System: New construction 97.5km và cải tạo 36.8km đường dây, lắp đặt 9059 electricity meters;	2016 - 2020	76,281	Provincial Budget	Pre-F/S
8	Upgrading Infrastructure of Electricity - Di Linh District	Di Linh		- Medium Voltage system: New construction 52.8km line. New construction and Upgrading 61 transformer stations, total capacity 2795 kVA; - Low Voltage System: New construction 62.8km, cải tạo 8.7km đường dây và lắp đặt 3598 electricity meters;	2016 - 2020	21,940	Provincial Budget	Pre-F/S
9	Upgrading Infrastructure of Electricity - Bao Lam District	Bao Lam		- Medium Voltage system: New construction 108.9km and Upgrading 74.3km line. New construction and Upgrading 154 transformer stations, total capacity 6612.5 kVA; - Low Voltage System: New construction 281.3km, installation 7137 electricity meters;	2016 - 2020	90,269	Provincial Budget	Pre-F/S
10	Upgrading Infrastructure of Electricity - Da Huoai District	Đa Huoai		- Medium Voltage system: New construction 38.6km, Upgrading 14km line. Upgrading and New construction 61 transformer stations, total capacity 2227.5 kVA; - Low Voltage System: New construction 42.8km, Upgrading 18.1km line. Installation 838 electricity meters;	2016 - 2020	20,286	Provincial Budget	Pre-F/S
11	Upgrading Infrastructure of Electricity - Da Teh District	Đa Teh		- Medium Voltage system: New construction 21km, Upgrading 14.5km line. New construction and Upgrading 32 transformer stations, total capacity 2125 kVA; - Low Voltage System: New construction 13.9km, Upgrading 7.8km line. Installation 828 electricity meters;	2016 - 2020	13,953	Provincial Budget	Pre-F/S

No.	Name of Projects	Location		Project Feature	Implementation	Total Project Cost (VND Million)	Source of Fund (planned)	Status Pre-F/S, F/S, DD, etc
		District	Commune					
12	Upgrading Infrastructure of Electricity - Cat Tien District	Cat Tien		- Medium Voltage system: New construction 27.2km line, upgrading 4.5km existing line. New construction and Upgrading 25 transformer stations, total capacity 1020 kVA; - Low Voltage System: New construction 44.85km and Upgrading 35km line. Installation 1133 electricity meters;	2016 - 2020	17,244	Provincial Budget	Pre-F/S
V	Disaster and Climate Change Prevention							
1	Watershed Forest	Cat Tien, Da Teh		Restore watershed forest	2016 - 2020	26,500	DARD	F/S
2	Cable-stayed bridge	Lam Ha, Duc Trong, Don Duong		Rehabilitation cable-stayed bridges to flood area	2016 - 2020	9,800	Committee for Flood and Storm Control +DOT	Pre-F/S
3	Girdle shaped dike	Lam Ha, Duc Trong, Don Duong		New construction and strengthening girdle shaped dikes of flood area in rainy season	2016 - 2020	6,800	DARD + Districts	Pre-F/S
4	Regulation Rivers	Lam Ha, Duc Trong, Don Duong		Dredging and strengthening slope of river's embankment	2016 - 2020	35,970	DARD	F/S
5	PR.721	Cat Tien, Da Teh		Slope protection landslide sections, strengthening side ditch and spillway work	2016 - 2020	27,460	MOT	DD
6	Đ.Nai-T.Hoàng road	Cat Tien, Da Teh		Slope protection landslide sections, strengthening side ditch and spillway works	2016 - 2020	4,700	Committee for Flood and Storm Control+DOT	F/S
7	Q.Ngãi-T.Hoàng Road	Cat Tien, Da Teh		Upgrading jammed section during rainy season of road	2016 - 2020	16,610	Committee for Flood and Storm Control+DOT	DD
8	Dredging internal streams	Cat Tien, Da Teh		Dredging and widening wet area of internal streams and canals to improve drainage capacity	2016 - 2020	8,200	Committee for Flood and Storm Control+DARD	Pre-F/S
9	Leveling	Cat Tien, Da Teh		Raising the elevation for flood resident	2016 - 2020	51,160	Committee for Flood and Storm Control+DARD	DD

Source: Transportation, Irrigation, Electricity Plans in Central Highlands