NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Libuganon RIS***			
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Libuganon River*	
3) Approved Water Rights		*4) Official Opening of the System*	*1989*	
5) Original Construction Cost	*P 880,307,413.83*	*6) Date of Rehabilitation*	*1993-1995*	
7) Cost of Rehabilitation	*P 15,946,291.22*	*8) Current Status*	*Operational*	
9) Firmed-up Service Area	*10815*	*10) Designed Area*	*10500*	
11) Potential Area	*12352*	*12) Number of Landowners*	*5.011*	
13) Number of Farmers Served	*5041*	*14) Average Farm Size*	*1.5*	
15) Number of Lots	*3294*	*16) Diversion Type*	*Ogee*	
17) Diversion Capacity	*21.515 cms*	*18) Length of Main Canal*	*33.5*	
19) Length of Laterals	*79.84*	*20) Number of Turnouts*	*190*	
21) Length of Service Roads	*82.5*	*22) Length of Access Roads*	*40*	
23) Drainage Density		*24) Farmditch Density*		
25) Climatic Condition (Coronas)	*Fair,cloudy*	*26) Average Annual Rainfall*	*1424.8*	
27) Main Crops	*Rice, Banana*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Kapalong	*Davao del Norte*	*2500*
Sto. Tomas	*Davao del Norte*	*3743*
Carmen	*Davao del Norte*	*3305.5*
Panabo	*Davao del Norte*	*2843.43*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	***Wet***	***Dry***	***Third***
Irrigated Area (ha)	*6103.25*	*5670.67*	
Benefitted Area (ha)	*3245.57*	*3263.07*	
Average Yield (cav/ha)	*71.1*	*68.25*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	10	*111.01206*	*10815*

31) Future Expansion	*Expansion of rice and banana area.*
32) Deterioration of the System	*Drainage system, roads, irrigation canal and structures.*
33) Other Information	

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Lupon Irrigation System***				
1) Water Resources Region	*11*	*2) Source of Water Supply*		*Sumlog River*	
3) Approved Water Rights	*5,000 lps*		*4) Official Opening of the System*		*April 3, 1973*
5) Original Construction Cost	*P 2,600,000.00*		*6) Date of Rehabilitation*		*1979-84 (NISIP II); 1988-90 (*
7) Cost of Rehabilitation	*P 13.0M (NISIP II);P 2,374,9*		*8) Current Status*		*Operational*
9) Firmed-up Service Area	*2371.19*		*10) Designed Area*		*2800*
11) Potential Area	*2600*		*12) Number of Landowners*		*695*
13) Number of Farmers Served	*2254*		*14) Average Farm Size*		*0.95*
15) Number of Lots	*665*		*16) Diversion Type*		*River run-off type*
17) Diversion Capacity	*4,300 lps*		*18) Length of Main Canal*		*12.02*
19) Length of Laterals	*40.325*		*20) Number of Turnouts*		*122*
21) Length of Service Roads	*43.34*		*22) Length of Access Roads*		*0.7*
23) Drainage Density	*9.24*		*24) Farmditch Density*		*46.21*
25) Climatic Condition (Coronas)			*26) Average Annual Rainfall*		*1292.465*
27) Main Crops	*Rice*				
28) Towns / Province Served	***Towns***		***Province***		***Area (ha)***
	Lupon		*Davao Oriental*		*831.42*
	Banaybanay		*Davao Oriental*		*1539.[illegible]*
			Total		***0***
29) Irrigated / Benefitted Area					
Average	*1985-1995*				
Season	***Wet***	***Dry***	***Third***		
Irrigated Area (ha)	*2047.89*	*2015.91*			
Benefitted Area (ha)	*1958.71*	*1917.03*			
Average Yield (cav/ha)	*97.23*	*95.37*			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	***Length of Canal (km) under contract***		***Area Covered (ha)***
		3	*35.373*		*2371.19*
31) Future Expansion	*Additional 120 ha At the Mun. of Banaybanay and approximately 100 ha at the Mun. of Lupon*				
32) Deterioration of the System	*The dam's intake channel needs improvement due to severe siltation while some canal lines (if possible all canal lines) need canal concrete lining due to erosion of embankment.*				
33) Other Information					

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***MAL RIS***				
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Mal River*		
3) Approved Water Rights	*no record*		*4) Official Opening of the System*	*January 7, 1992*	
5) Original Construction Cost	*P 108,067,000.00*		*6) Date of Rehabilitation*	*CY 1994*	
7) Cost of Rehabilitation			*8) Current Status*	*On going*	
9) Firmed-up Service Area	*2635*		*10) Designed Area*	*3500*	
11) Potential Area	*3000*		*12) Number of Landowners*	*1782*	
13) Number of Farmers Served	*2564*		*14) Average Farm Size*	*1.09*	
15) Number of Lots	*2368*		*16) Diversion Type*	*Gravity*	
17) Diversion Capacity	*5,200 lps*		*18) Length of Main Canal*	*18.54*	
19) Length of Laterals	*25.5*		*20) Number of Turnouts*	*101*	
21) Length of Service Roads	*49.43*		*22) Length of Access Roads*	*44.04*	
23) Drainage Density	*173.76*		*24) Farmditch Density*	*0.57*	
25) Climatic Condition (Coronas)	*Type IV*		*26) Average Annual Rainfall*	*1816*	
27) Main Crops	*Rice*				
28) Towns / Province Served	***Towns***	***Province***		***Area (ha)***	
	Matanao	*Davao del Sur*		*2635*	
		Total		***0***	
29) Irrigated / Benefitted Area					
Average	*1992-1996*				
Season	***Wet***	***Dry***	***Third***		
Irrigated Area (ha)	*2475.98*	*1290.89*			
Benefitted Area (ha)	*2045.92*	*1161.62*			
Average Yield (cav/ha)	*80.178*	*74.244*			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	***Length of Canal (km) under contract***	***Area Covered (ha)***	
	Type I	*7*	*17.36*	*1142.11*	
	Takay Contract	*5*	*23.17*	*1421.34*	
31) Future Expansion	*Malapolo Area, Malabang and Bagumbayan, all located at end portion of system.*				
32) Deterioration of the System	*Extension of canal lining at extreme portion of canals and Main Farmditch concreting.*				
33) Other Information	*Proposal of improving water supply through construction of storage dm and provision of check dams at end stream.*				

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Marbel #1 RIS***			
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Palian River & Kipalbig River*	
3) Approved Water Rights		*4) Official Opening of the System*	*October 1972*	
5) Original Construction Cost	*P 11,000,000.00*	*6) Date of Rehabilitation*	*May 1991*	
7) Cost of Rehabilitation	*P 144,551,715.00*	*8) Current Status*	*Operating System*	
9) Firmed-up Service Area	*2274.75*	*10) Designed Area*	*2720*	
11) Potential Area	*2720*	*12) Number of Landowners*	*629*	
13) Number of Farmers Served	*1571*	*14) Average Farm Size*	*1.45*	
15) Number of Lots	*747*	*16) Diversion Type*	*Diversion type/ogee*	
17) Diversion Capacity	*5.4*	*18) Length of Main Canal*	*21.565*	
19) Length of Laterals	*24.575*	*20) Number of Turnouts*	*126*	
21) Length of Service Roads	*45.547*	*22) Length of Access Roads*	*0*	
23) Drainage Density	*1.2*	*24) Farmditch Density*	*170*	
25) Climatic Condition (Coronas)	*Temperate*	*26) Average Annual Rainfall*	*4.58*	
27) Main Crops	*Rice*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Koronadal	*South Cotabato*	*116.14*
Tantangan	*South Cotabato*	*110.61*
	Total	***0***

29) Irrigated / Benefitted Area

Average	*1985-1995*			
Season	*Wet*	*Dry*	*Third*	
Irrigated Area (ha)	*1560.86*	*1556.6*		
Benefitted Area (ha)	*1429.24*	*1340.3*		
Average Yield (cav/ha)	*82.68*	*80.77*		

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	3	*9.597*	*414.8*

31) Future Expansion	*Installation of deep-well water pump on unirrigated area but w/in the service area of the system.*
32) Deterioration of the System	*1. Construction of concrete canal lining on unlined canals susceptible sloughing. 2. Repair of damaged structure.*
33) Other Information	

NATIONAL WATER RESOURCES BOARD	SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Marbel #2 RIS***			
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Marbel and Taplan River*	
3) Approved Water Rights		*4) Official Opening of the System*		*December 1980*
5) Original Construction Cost		*6) Date of Rehabilitation*		*December 1996*
7) Cost of Rehabilitation	*P 2,700,000.00*	*8) Current Status*		*Operating System*
9) Firmed-up Service Area	*1398.25*	*10) Designed Area*		*2700*
11) Potential Area	*2700*	*12) Number of Landowners*		*579*
13) Number of Farmers Served	*1401*	*14) Average Farm Size*		*1*
15) Number of Lots	*617*	*16) Diversion Type*		*Diversion type/ogee*
17) Diversion Capacity	*4.05*	*18) Length of Main Canal*		*10.4*
19) Length of Laterals	*22.848*	*20) Number of Turnouts*		*145*
21) Length of Service Roads	*18.3*	*22) Length of Access Roads*		
23) Drainage Density	*0.171*	*24) Farmditch Density*		*118*
25) Climatic Condition (Coronas)	*Temperate*	*26) Average Annual Rainfall*		*3.25*
27) Main Crops	*Rice*			

28) Towns / Province Served	***Towns***	***Province***	***Area (ha)***
	Koronadal	*South Cotabato*	*824.35*
	Tantan	*South Cotabato*	*574.4*
		Total	***0***

29) Irrigated / Benefitted Area				
Average	*1985-1995*			
Season	***Wet***	***Dry***	***Third***	
Irrigated Area (ha)	*1298.68*	*1186.22*		
Benefitted Area (ha)	*1188.68*	*1071.45*		
Average Yield (cav/ha)	*92.92*	*86.04*		

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	***Length of Canal (km) under contract***	***Area Covered (ha)***
		3	*14.521*	*498.02*

31) Future Expansion	*Installation of deep-well water pump on unirrigated area but w/in the service area of the system.*
32) Deterioration of the System	*1. Construction of concrete canal lining on unlined canals susceptible sloughing. 2. Repair of damaged structure.*
33) Other Information	

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Padada RIS***			
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Padada R,Sabub,Odaka & Balutakay Creek*	
3) Approved Water Rights	*On file*		*4) Official Opening of the System*	*CY - 1956*
5) Original Construction Cost	*P 1,500,000.00*		*6) Date of Rehabilitation*	*CY - 1979-1988*
7) Cost of Rehabilitation	*P 30,000,000.00*		*8) Current Status*	
9) Firmed-up Service Area	*3511.95*		*10) Designed Area*	*3000*
11) Potential Area	*3511.95*		*12) Number of Landowners*	*628*
13) Number of Farmers Served	*1323*		*14) Average Farm Size*	*1.06*
15) Number of Lots	*1964*		*16) Diversion Type*	*Run-off the river type*
17) Diversion Capacity	*4,500 lps*		*18) Length of Main Canal*	*10.09*
19) Length of Laterals	*41.459*		*20) Number of Turnouts*	*133*
21) Length of Service Roads	*14.664*		*22) Length of Access Roads*	
23) Drainage Density	*16*		*24) Farmditch Density*	*50*
25) Climatic Condition (Coronas)	*Wet & Dry Seasons*		*26) Average Annual Rainfall*	*2.61*
27) Main Crops	*Rice, Banana*			

28) Towns / Province Served	***Towns***	***Province***	***Area (ha)***
	Hagonoy	*Davao del Sur*	*3429.9*
	Digos	*Davao del Sur*	*81.99*
		Total	*0*

29) Irrigated / Benefitted Area				
Average	*1992-1995*			
Season	***Wet***	***Dry***	***Third***	
Irrigated Area (ha)	*2339.67*	*2177.47*		
Benefitted Area (ha)	*2228.49*	*2066.27*		
Average Yield (cav/ha)	*111.5*	*101.2*		

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	***Length of Canal (km) under contract***	***Area Covered (ha)***
		6	*42.566*	*1641*

31) Future Expansion	*900.00 Ha. Of Mango Plantation owned by Cacao Investor Inc. (CII)*
32) Deterioration of the System	*There is a necessity of concrete lining the irrigation canal because the firmed up service area of 3,511.75 ha is greater than the designed area of 3,000.00 has.*
33) Other Information	

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Saug RIS***			
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Saug & Madgao River*	
3) Approved Water Rights		*4) Official Opening of the System*	*January 1980*	
5) Original Construction Cost	*P 112,154,274.52*	*6) Date of Rehabilitation*	*May 1992*	
7) Cost of Rehabilitation	*P 94,541,816.29*	*8) Current Status*	*99.36%*	
9) Firmed-up Service Area	*3632*	*10) Designed Area*	*7090*	
11) Potential Area	*4493*	*12) Number of Landowners*	*2471*	
13) Number of Farmers Served	*2471*	*14) Average Farm Size*	*1.47*	
15) Number of Lots	*512*	*16) Diversion Type*	*Ogee/Run-Off the River*	
17) Diversion Capacity	*11.1 cms*	*18) Length of Main Canal*	*24.887*	
19) Length of Laterals	*71.232*	*20) Number of Turnouts*	*268*	
21) Length of Service Roads	*66.984*	*22) Length of Access Roads*	*11.5*	
23) Drainage Density	*15.61*	*24) Farmditch Density*	*63.85*	
25) Climatic Condition (Coronas)		*26) Average Annual Rainfall*	*1424*	
27) Main Crops	*Rice*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Asuncion	*Davao*	*270*
New Corella	*Davao*	*726*
Kapalong	*Davao*	*52*
Tagum	*Davao*	*84*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	*Wet*	*Dry*	*Third*
Irrigated Area (ha)	*2203*	*1999*	
Benefitted Area (ha)	*1744*	*1638*	
Average Yield (cav/ha)	*77*	*76*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	11	*81.3*	*3576.55*

31) Future Expansion

32) Deterioration of the System — *Newly rehab by ISIP-1*

33) Other Information

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Siluay RIS***		
1) Water Resources Region	*11*	*2) Source of Water Supply*	*Siluay & Klinan Rivers*
3) Approved Water Rights	*Water Permit No. 7513*	*4) Official Opening of the System*	*1965*
5) Original Construction Cost	*P 4,200,000.00*	*6) Date of Rehabilitation*	*April 17, 1968 & Feb. 21, 199*
7) Cost of Rehabilitation	*P 924,960.14;P 19,847,986.0*	*8) Current Status*	*Operational*
9) Firmed-up Service Area	*1421.84*	*10) Designed Area*	*2065.6*
11) Potential Area	*2075.07*	*12) Number of Landowners*	*475*
13) Number of Farmers Served	*575*	*14) Average Farm Size*	*4.38*
15) Number of Lots	*475*	*16) Diversion Type*	*Sluice/Check Gate Type*
17) Diversion Capacity	*5.12 cms*	*18) Length of Main Canal*	*8.79*
19) Length of Laterals	*19.35*	*20) Number of Turnouts*	*109*
21) Length of Service Roads	*30.654*	*22) Length of Access Roads*	*9.388*
23) Drainage Density	*5.38*	*24) Farmditch Density*	*162*
25) Climatic Condition (Coronas)	*Type IV*	*26) Average Annual Rainfall*	*1174.86*
27) Main Crops	*Rice, Banana, Corn, Vegitables*		

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Mabuhay	*South Cotabato*	*159.63*
Conel	*South Cotabato*	*22.34*
San Isidro	*South Cotabato*	*[illegible]2.8*
Tagao	*South Cotabato*	*125.51*
Katangawan	*South Cotabato*	*341.56*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	***Wet***	***Dry***	***Third***
Irrigated Area (ha)	*1210.22*	*1142.29*	
Benefitted Area (ha)	*1142.7*	*1084.32*	
Average Yield (cav/ha)	*81*	*76*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	2	*9.1*	*363.29*

31) Future Expansion	*If Datal-as Dam will be constructed, the upper portion of Brgy.Katangawan will be supplemented with irrigation water and will irrigate 50 ha.,more or less.*
32) Deterioration of the System	*The Siluay Dam Sluice Way Channel needs immediate repair. The flooring was damaged due to abrasion caused by sand and big boulders. Needs to revise the design and install steel plate to prevent excessive abrassion.*
33) Other Information	*The irrigation waters of Siluay RIS also serve the service area of Buayan RIS (Gintong Ani FIA = 156.74 ha. And Golden Grain FIA = 104.65 ha) due to insufficient water supply to the system.*

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Alip RIS***			
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Alip River*	
3) Approved Water Rights	*1993 lps*		*4) Official Opening of the System*	*November 17, 1912*
5) Original Construction Cost	*P 180,000,000.00*		*6) Date of Rehabilitation*	*January 10, 1993*
7) Cost of Rehabilitation	*P 12,653,648.45 (as of 3/97)*		*8) Current Status*	*Operating System*
9) Firmed-up Service Area	*3000*		*10) Designed Area*	*3000*
11) Potential Area	*3000*		*12) Number of Landowners*	*1671*
13) Number of Farmers Served	*2370*		*14) Average Farm Size*	*0.94*
15) Number of Lots	*2085*		*16) Diversion Type*	*Diversion type/ogee*
17) Diversion Capacity	*8.0 cms*		*18) Length of Main Canal*	*26.282*
19) Length of Laterals	*35.458*		*20) Number of Turnouts*	*134*
21) Length of Service Roads	*48.05*		*22) Length of Access Roads*	*8940*
23) Drainage Density	*12.5*		*24) Farmditch Density*	*22.81*
25) Climatic Condition (Coronas)	*Type IV*		*26) Average Annual Rainfall*	*807*
27) Main Crops	*Rice*			

28) Towns / Province Served	***Towns***	***Province***	***Area (ha)***
	Datu Paglas	*Maguindanao*	*1600*
	Buluan	*Maguindanao*	*1400*
		Total	*0*

29) Irrigated / Benefitted Area				
Average	*1985-1995*			
Season	***Wet***	***Dry***	***Third***	
Irrigated Area (ha)	*1603*	*957*		
Benefitted Area (ha)	*1345*	*1703*		
Average Yield (cav/ha)	*66*	*69*		

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	*Length of Canal (km) under contract*	***Area Covered (ha)***
		3	*61.44*	*3100*

31) Future Expansion	
32) Deterioration of the System	
33) Other Information	

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Kabacan/Pagalungan RIS***			
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Kabacan River*	
3) Approved Water Rights		*4) Official Opening of the System*	*July 1, 1969*	
5) Original Construction Cost	*P 5,413,000.00*	*6) Date of Rehabilitation*	*1975-1986*	
7) Cost of Rehabilitation	*P 20,659,026.00*	*8) Current Status*	*Operating System*	
9) Firmed-up Service Area	*5018*	*10) Designed Area*	*6100*	
11) Potential Area	*6500*	*12) Number of Landowners*	*2131*	
13) Number of Farmers Served	*4193*	*14) Average Farm Size*	*1.19*	
15) Number of Lots	*2239*	*16) Diversion Type*	*Diversion dam/ogee*	
17) Diversion Capacity	*10.50 cms*	*18) Length of Main Canal*	*35.036*	
19) Length of Laterals	*78.408*	*20) Number of Turnouts*	*130*	
21) Length of Service Roads	*82.324*	*22) Length of Access Roads*	*18.885*	
23) Drainage Density	*11.91*	*24) Farmditch Density*	*16.42*	
25) Climatic Condition (Coronas)	*Type IV*	*26) Average Annual Rainfall*	*1250*	
27) Main Crops	*Rice*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Kabacan	*Cotabato*	*4563*
Matalam	*Cotabato*	*"2*
Pagalungan	*Maguindanao*	*383*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	*Wet*	*Dry*	*Third*
Irrigated Area (ha)	*4122*	*3772*	
Benefitted Area (ha)	*3834*	*3477*	
Average Yield (cav/ha)	*78*	*78*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	7	*61.64*	*5018*

31) Future Expansion	*Area - 15 has., New Pandan - 30 has., Cuyapon Area - 150 has., Nasag Area - 50 has.*
32) Deterioration of the System	*Sluice gates, steel gates, silted MC and Lateral canal scoured MC & Lateral Canal.*
33) Other Information	

NATIONAL WATER RESOURCES BOARD	SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Libungan RIS***			
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Libungan River*	
3) Approved Water Rights		*4) Official Opening of the System*	*Sept. 15, 1962*	
5) Original Construction Cost	*P 6,900,000.00*	*6) Date of Rehabilitation*	*1979-1986*	
7) Cost of Rehabilitation	*P 91,304,167.00*	*8) Current Status*	*Operating System*	
9) Firmed-up Service Area	*9360*	*10) Designed Area*	*10000*	
11) Potential Area	*12000*	*12) Number of Landowners*	*2883*	
13) Number of Farmers Served	*6297*	*14) Average Farm Size*	*0.67*	
15) Number of Lots	*5679*	*16) Diversion Type*	*Diversion dam'ogee*	
17) Diversion Capacity	*15.6 cms.*	*18) Length of Main Canal*	*20.94*	
19) Length of Laterals	*130.38*	*20) Number of Turnouts*	*297*	
21) Length of Service Roads	*163.055*	*22) Length of Access Roads*	*63.479*	
23) Drainage Density	*11.97*	*24) Farmditch Density*	*13.01*	
25) Climatic Condition (Coronas)	*Type IV*	*26) Average Annual Rainfall*	*1664*	
27) Main Crops	*Rice*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Midsayap	*Cotabato*	*623*
Libungan	*Cotabato*	*1233*
Pigcawayan	*Cotabato*	*1010*
Kabuntalan	*Maguindanao*	*550*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	*Wet*	*Dry*	*Third*
Irrigated Area (ha)	*8004*	*6418*	
Benefitted Area (ha)	*7248*	*5476*	
Average Yield (cav/ha)	*77*	*78*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	11	*86.917*	*8141*

31) Future Expansion	*The system has a potential future expansion of 5,000 hectares at the extreme area.*
32) Deterioration of the System	*Existing facilities should be rehabilitated including main drainages beyond the service area. Denuded watershed area should now be given priority for development in order to sustain the existing service area and the future expansion of 5000 ha.*
33) Other Information	

NATIONAL WATER RESOURCES BOARD	SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Malasila RIS***			
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Malasila River*	
3) Approved Water Rights		*4) Official Opening of the System*	*January 1, 1971*	
5) Original Construction Cost	*P 4,681,700.00*	*6) Date of Rehabilitation*	*1976-1986 (Japloan)*	
7) Cost of Rehabilitation	*P 24,908,000.00*	*8) Current Status*	*Operating System*	
9) Firmed-up Service Area	*4006*	*10) Designed Area*	*3900*	
11) Potential Area	*4250*	*12) Number of Landowners*	*1657*	
13) Number of Farmers Served	*2702*	*14) Average Farm Size*	*2.05*	
15) Number of Lots	*1953*	*16) Diversion Type*	*Diversion dam'ogee*	
17) Diversion Capacity	*7.24 cms.*	*18) Length of Main Canal*	*11.787*	
19) Length of Laterals	*60.256*	*20) Number of Turnouts*	*157*	
21) Length of Service Roads	*80.11*	*22) Length of Access Roads*	*15.46*	
23) Drainage Density	*12.15*	*24) Farmditch Density*	*21.7*	
25) Climatic Condition (Coronas)	*Type IV*	*26) Average Annual Rainfall*	*1350*	
27) Main Crops	*Rice*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Mlang	*Cotabato*	*2981*
Tulunan	*Cotabato*	*4006*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	***Wet***	***Dry***	***Third***
Irrigated Area (ha)	*3118*	*2603*	
Benefitted Area (ha)	*2824*	*2020*	
Average Yield (cav/ha)	*82*	*68*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	4	*75.42*	*4006*

31) Future Expansion	*The improvement of the system is on progress under IOSP II.*
32) Deterioration of the System	*Deteriorating canal and canal structures. Steelgates are mostly dilapidated*
33) Other Information	

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Maranding RIS***			
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Cabayaugan River*	
3) Approved Water Rights		*4) Official Opening of the System*	*July 15, 1976*	
5) Original Construction Cost	*P 1,861,542.00*	*6) Date of Rehabilitation*	*1992-1996*	
7) Cost of Rehabilitation	*P 36,133.00*	*8) Current Status*	*Operating System*	
9) Firmed-up Service Area	*4500*	*10) Designed Area*	*6500*	
11) Potential Area	*6500*	*12) Number of Landowners*	*981*	
13) Number of Farmers Served	*4313*	*14) Average Farm Size*	*1.04*	
15) Number of Lots	*3089*	*16) Diversion Type*	*Diversion dam'ogee*	
17) Diversion Capacity	*13 cms*	*18) Length of Main Canal*	*19.497*	
19) Length of Laterals	*56.003*	*20) Number of Turnouts*	*127*	
21) Length of Service Roads	*33.74*	*22) Length of Access Roads*	*0.33*	
23) Drainage Density	*17.6*	*24) Farmditch Density*	*27.98*	
25) Climatic Condition (Coronas)	*Type IV*	*26) Average Annual Rainfall*	*1382*	
27) Main Crops	*Rice*			

28) Towns / Province Served

Towns	*Province*	*Area (ha)*
Lala	*Lanao del Norte*	*2409*
Sapad	*Lanao del Norte*	*19*
Kapatagan	*Lanao del Norte*	*1905*
	Total	*0*

29) Irrigated / Benefitted Area

Average	*1985-1995*		
Season	*Wet*	*Dry*	*Third*
Irrigated Area (ha)	*3302*	*3138*	
Benefitted Area (ha)	*3212*	*3082*	
Average Yield (cav/ha)	*77*	*77*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance

Nature of Contract	*Number of FIA*	*Length of Canal (km) under contract*	*Area Covered (ha)*
	6	*54.235*	*4500*

31) Future Expansion

32) Deterioration of the System

33) Other Information

NATIONAL WATER RESOURCES BOARD	SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Mlang RIS***				
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Mlang River*		
3) Approved Water Rights			*4) Official Opening of the System*	*September 9, 1973*	
5) Original Construction Cost	*P 3,545,000.00*		*6) Date of Rehabilitation*	*1993-1996*	
7) Cost of Rehabilitation	*P 16,585,000.00*		*8) Current Status*	*Operating System*	
9) Firmed-up Service Area	*2981*		*10) Designed Area*	*2850*	
11) Potential Area	*3600*		*12) Number of Landowners*	*1477*	
13) Number of Farmers Served	*1970*		*14) Average Farm Size*	*1.85*	
15) Number of Lots	*1609*		*16) Diversion Type*	*Diversion type/ogee*	
17) Diversion Capacity	*5.030 cms*		*18) Length of Main Canal*	*16.02*	
19) Length of Laterals	*36.039*		*20) Number of Turnouts*	*192*	
21) Length of Service Roads	*41.552*		*22) Length of Access Roads*	*4.5*	
23) Drainage Density	*4.53*		*24) Farmditch Density*	*33.85*	
25) Climatic Condition (Coronas)	*Type IV*		*26) Average Annual Rainfall*	*1597*	
27) Main Crops	*Rice*				
28) Towns / Province Served	***Towns***	***Province***	***Area (ha)***		
	Mlang	*Cotabato*	*2981*		
	Total		*0*		
29) Irrigated / Benefitted Area					
Average	*1985-1995*				
Season	***Wet***	***Dry***	***Third***		
Irrigated Area (ha)	*1769*	*1583*			
Benefitted Area (ha)	*1571*	*1339*			
Average Yield (cav/ha)	*80*	*73*			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	***Length of Canal (km) under contract***	***Area Covered (ha)***	
		2	*46.51*	*2981*	
31) Future Expansion	*When WRDP will be pushed through the future expansion of the system is to maximize the potential area to irrigated area. This is particularly in the extremities.*				
32) Deterioration of the System	*Deteriorating canal and canal structures.*				
33) Other Information					

NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	***Talayan RIS***			
1) Water Resources Region	*12*	*2) Source of Water Supply*	*Talayan River*	
3) Approved Water Rights	*During CIS Operation*		*4) Official Opening of the System*	*June 1, 1996*
5) Original Construction Cost	*P 77,000,000.00*		*6) Date of Rehabilitation*	*CY 1995*
7) Cost of Rehabilitation	*P 2,568,765.43 (as of 12/96)*		*8) Current Status*	*Temporarily Suspended*
9) Firmed-up Service Area	*700*		*10) Designed Area*	*1088*
11) Potential Area	*1088*		*12) Number of Landowners*	*444*
13) Number of Farmers Served	*507*		*14) Average Farm Size*	*1.9344*
15) Number of Lots	*354*		*16) Diversion Type*	*Diversion type/ogee*
17) Diversion Capacity	*5.0 cms*		*18) Length of Main Canal*	*8464*
19) Length of Laterals	*5232*		*20) Number of Turnouts*	*41*
21) Length of Service Roads	*21.5*		*22) Length of Access Roads*	*90*
23) Drainage Density	*29.63*		*24) Farmditch Density*	*12.59*
25) Climatic Condition (Coronas)	*Type IV*		*26) Average Annual Rainfall*	*507*
27) Main Crops	*Rice*			

28) Towns / Province Served	***Towns***	***Province***	***Area (ha)***
	Talayan	*Maguindanao*	*700*
		Total	***0***

29) Irrigated / Benefitted Area			
Average	*1985-1996*		
Season	***Wet***	***Dry***	***Third***
Irrigated Area (ha)		*357.6*	
Benefitted Area (ha)		*193.67*	
Average Yield (cav/ha)		*50.25*	

30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	***Nature of Contract***	***Number of FIA***	***Length of Canal (km) under contract***	***Area Covered (ha)***

31) Future Expansion	*Depends on the development and improvement of the system.*
32) Deterioration of the System	*Necessary improvements of the system are the Road Network System and Drainage System.*
33) Other Information	*As of June 1996, operation was suspended due to some problems arising in the area.*

IRRIGATION DATA

2. IIRIGATION WATER REQUIREMENT

Name of Project AGUSAN DEL NORTE PROJ. (RAINFALL STA.= BUTUAN ; EVAP. STA.= STA. JOSEFA)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE				x	x	x	x	x	z	z	z	z	o	+	+	+	+	+	+	+	+							x	x	x	z	z	z	o	+	+	+
				x	x	x	x	x	x	z	z	z	o	+	+	+	+	+	+	+	+							x	x	x	x	z	z	o	+	+	+
					x	x	x	x	x	x	z	z	o	+	+	+	+	+	+	+	+								x	x	x	z	z	o	+	+	+
					x	x	x	x	x	x	z	z	o	+	+	+	+	+	+	+	+								x	x	x	x	z	o	+	+	+
						x	x	x	x	x	z	z	o	+	+	+	+	+	+	+	+									x	x	x	z	o	+	+	+
						x	x	x	x	x	z	z	o	+	+	+	+	+	+	+	+									x	x	x	x	o	+	+	+
							x	x	x	x	x	z	o	+	+	+	+	+	+	+	+										x	x	x	o	+	+	+
							x	x	x	x	x	z	o	+	+	+	+	+	+	+	+										x	x	x	o	+	+	+

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

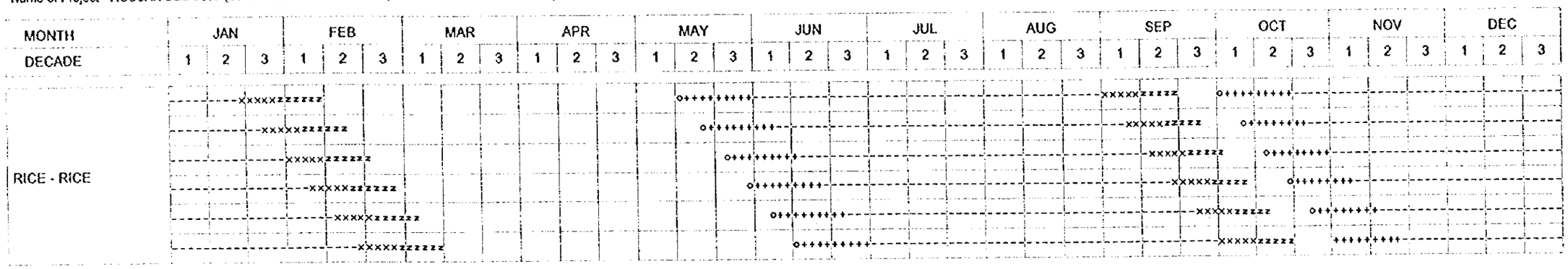
RAINFALL DATA	25	18	29	19	17	9	28	19	11	5	8	6	13	9	12	12	23	17	30	5	7	14	9	25	10	7	23	21	21	18	7	15	11	22	22	19
EVAP. DATA	42	42	46	33	33	26	39	39	43	38	38	38	43	43	47	38	38	38	36	36	40	37	37	40	36	36	36	35	35	39	32	32	32	33	33	36
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	46	46	48	23	12	1	0	0	0	0	0	0	0	0	0	11	22	36	40	39	40	44	40	40	44	38	28	15	3	10	25	31	34	35	36	36	40
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	66	66	69	36	18	2	0	0	0	0	0	0	0	0	0	44	57	82	68	67	60	66	60	60	66	58	43	22	12	36	69	74	61	60	56	56	62
EFF. RAINFALL	25	18	29	14	7	1	0	0	0	0	0	0	0	0	0	5	8	23	17	30	5	7	14	9	25	10	7	11	5	8	14	7	15	11	22	22	19
CROP IRRG. REQT.	41	48	40	22	11	1	0	0	0	0	0	0	0	0	0	40	49	60	51	37	55	28	46	51	42	48	36	12	7	28	55	67	46	49	34	34	43
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	75	87	73	40	20	1	0	0	0	0	0	0	0	0	0	88	109	133	113	82	123	130	103	114	93	107	80	26	13	51	100	122	84	89	62	62	78
W'DUTY (L/S/H)	0.87	1.01	0.77	0.46	0.23	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	1.26	1.53 vvvv	1.31	0.95	1.42	1.37	1.19	1.32	0.98	1.24	0.93	0.30	0.15	0.59	1.05	1.41	0.97	1.03	0.71	0.71	0.82

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project AGUSAN DEL SUR (RAINFALL STA.= CAGBAS ; EVAP. STA.= STA. JOSEFA)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

RAINFALL DATA	52	29	64	37	7	13	22	12	20	17	6	9	11	11	6	16	16	23	8	15	17	7	8	19	22	23	12	18	13	19	23	22	15	36	17	38
EVAP. DATA	42	42	46	33	33	26	39	39	43	38	38	38	43	43	47	38	38	38	36	36	40	37	37	40	36	36	36	35	35	39	32	32	32	33	33	36
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	25	27	29	8	8	0	0	0	0	0	0	0	0	7	21	27	28	8	5	0	0	0	0
EVAP / TRANS	46	45	34	12	1	0	0	0	0	0	0	0	0	9	27	36	40	42	40	40	44	40	40	44	28	15	3	10	22	37	34	35	35	36	36	40
DEEP PERCOLATION	20	19	15	6	1	0	0	0	0	0	0	0	0	4	12	18	20	20	20	20	22	20	20	22	14	8	2	6	12	21	20	20	20	20	20	22
CROP WATER REQT.	66	64	48	18	2	0	0	0	0	0	0	0	0	38	66	82	68	69	60	60	66	60	60	65	43	22	12	36	61	85	61	60	55	56	56	62
EFF. RAINFALL	52	29	42	14	1	0	0	0	0	0	0	0	0	4	4	16	16	23	8	15	17	7	8	19	18	11	4	7	10	19	23	22	15	36	17	38
CROP IRRG. REQT.	14	35	6	4	1	0	0	0	0	0	0	0	0	34	62	66	52	46	52	45	49	53	52	46	24	11	9	29	51	66	38	38	40	20	39	24
OVERALL EFF.	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	26	64	10	7	2	0	0	0	0	0	0	0	0	75	137	148	115	103	115	99	108	118	116	103	54	26	16	53	93	121	70	69	73	36	71	43
W*DUTY (L/S/H)	0.30	0.74	0.11	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	1.45	1.71 vvvv	1.34	1.19	1.33	1.15	1.14	1.37	1.35	1.08	0.63	0.30	0.18	0.62	1.07	1.27	0.81	0.80	0.84	0.42	0.82	0.45

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project AKLAN (RAINFALL STA.= KALIBO ; EVAP. STA.= ROXAS)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

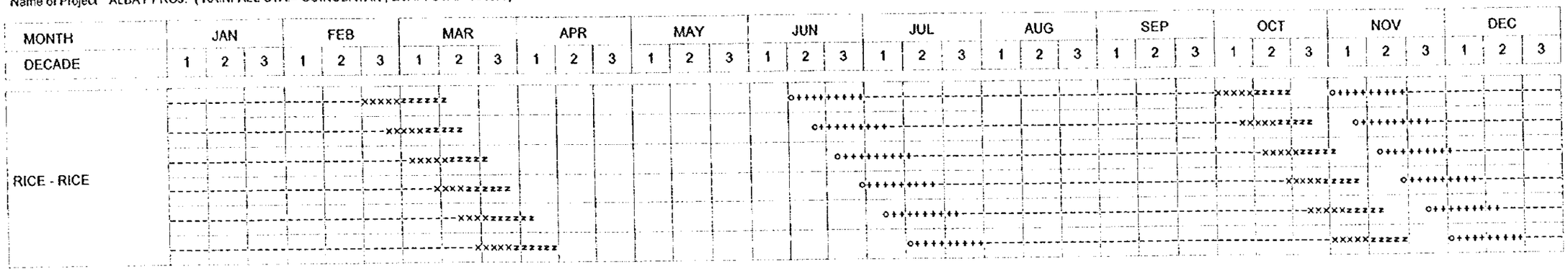
RAINFALL DATA	9	8	12	3	6	4	7	3	3	5	6	7	5	3	8	20	23	27	20	40	15	40	32	17	36	32	34	67	42	38	44	26	29	19	20	37
EVAP. DATA	46	46	50	49	49	39	57	57	62	62	62	62	59	59	64	50	50	50	49	49	54	47	47	52	46	46	46	47	47	52	46	46	46	45	45	49
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0	0
EVAP / TRANS	34	18	3	0	0	0	0	0	0	0	0	14	32	53	68	55	55	55	54	54	60	51	39	23	4	13	29	45	40	56	51	51	51	49	49	52
DEEP PERCOLATION	14	7	1	0	0	0	0	0	0	0	0	4	11	18	22	20	20	20	20	20	22	20	15	9	2	6	12	19	20	22	20	20	20	20	20	21
CROP WATER REQT.	48	25	4	0	0	0	0	0	0	0	0	43	68	101	97	82	75	75	74	74	82	71	54	32	13	40	68	88	80	83	71	71	71	69	69	74
EFF. RAINFALL	7	4	2	0	0	0	0	0	0	0	0	3	3	3	8	20	23	27	20	40	15	40	27	9	9	13	27	63	42	38	44	26	29	19	20	37
CROP IRRG. REQT.	41	21	2	0	0	0	0	0	0	0	0	40	64	98	89	63	52	48	54	34	67	31	27	23	5	27	41	25	37	46	27	44	42	50	49	37
OVERALL EFF.	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	74	38	3	0	0	0	0	0	0	0	0	89	143	218	199	139	116	108	121	76	148	70	60	50	9	49	74	46	68	83	48	81	77	92	89	68
W'DUTY (L/S/H)	0.86	0.43	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.65	2.53 vvvv	2.09	1.61	1.34	1.25	1.40	0.88	1.56	0.81	0.69	0.53	0.10	0.56	0.86	0.53	0.79	0.87	0.56	0.94	0.89	1.06	1.04	0.71

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project ALBAY PROJ. (RAINFALL STA.= GUINOBATAN ; EVAP. STA.= NAGA)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

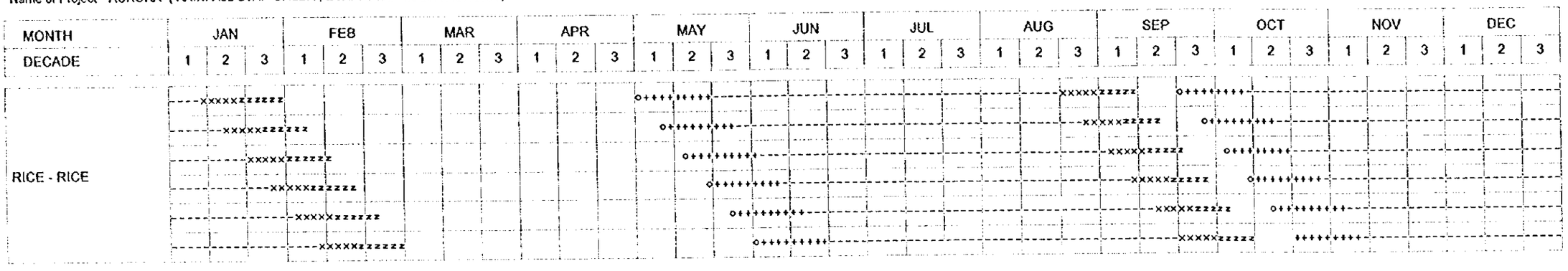
RAINFALL DATA	5	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	6	30	22	28	29	29	21	19	30	25	28	15	16	3	0	3	12	20	11	5
EVAP. DATA	45	45	49	48	48	38	51	51	56	59	59	59	56	56	62	51	51	51	44	44	48	43	43	47	41	41	41	37	37	40	41	41	41	40	40	44
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0
EVAP / TRANS	49	49	54	52	51	30	24	5	0	0	0	0	0	0	0	0	11	28	39	46	52	47	47	52	45	45	44	30	17	4	12	26	40	42	43	48
DEEP PERCOLATION	20	20	22	20	19	11	8	2	0	0	0	0	0	0	0	0	4	11	18	20	22	20	20	22	20	20	20	15	8	2	6	12	19	20	20	22
CROP WATER REQT.	69	69	76	72	70	41	32	7	0	0	0	0	0	0	0	0	40	64	88	73	82	64	67	74	65	65	64	45	25	14	38	65	83	72	68	70
EFF. RAINFALL	5	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2	21	22	28	29	29	21	19	30	25	28	13	9	1	0	2	12	20	11	5
CROP IRRG. REQT.	64	68	74	71	70	41	32	7	0	0	0	0	0	0	0	0	38	43	66	45	53	38	46	55	35	40	36	32	17	13	38	63	71	52	57	65
OVERALL EFF.	55	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55
DIVERSION REQT.	116	124	134	130	128	75	58	12	0	0	0	0	0	0	0	0	84	95	146	101	117	84	102	121	77	89	80	71	37	28	69	114	129	94	104	118
W'DUTY (L/S/H)	1.35	1.43	1.41	1.50	1.48	1.08	0.67	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	1.10	1.69 vvvv	1.17	1.23	0.98	1.18	1.28	0.90	1.02	0.93	0.82	0.43	0.30	0.80	1.32	1.50	1.09	1.20	1.24

NOTE : Rainfall data is for 80% probability of occurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project AURORA (RAINFALL STA.= BALER ; EVAP. STA.= MARIA AURORA)

UNITS : mm



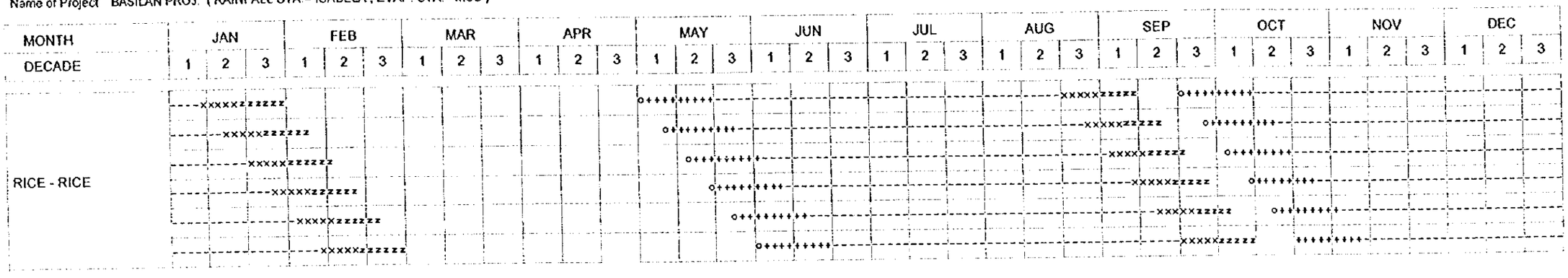
RAINFALL DATA	14	10	18	10	16	11	13	25	19	15	32	24	30	33	28	31	11	44	31	20	13	23	18	23	20	20	44	50	44	20	41	20	24	10	27	15
EVAP. DATA	36	36	40	39	39	31	38	38	41	42	42	42	46	46	51	49	49	49	48	48	52	47	47	52	45	45	45	39	39	43	35	35	35	39	39	43
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	39	27	15	1	0	0	0	0	0	0	0	0	10	25	46	52	53	54	52	52	58	52	51	42	19	4	13	24	38	46	39	39	39	43	43	47
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	58	41	22	2	0	0	0	0	0	0	0	0	39	61	97	79	81	74	72	72	80	72	71	58	26	13	39	64	81	78	64	59	59	63	63	69
EFF. RAINFALL	14	8	8	1	0	0	0	0	0	0	0	0	12	23	28	31	11	44	31	20	13	23	18	20	10	5	18	39	44	20	41	20	24	10	27	15
CROP IRRG. REQT.	44	33	14	1	0	0	0	0	0	0	0	0	27	38	69	48	70	30	41	52	67	49	53	38	16	8	22	25	37	58	23	39	35	53	36	54
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	80	59	25	2	0	0	0	0	0	0	0	0	60	84	153	107	155	66	92	117	148	109	118	86	36	14	39	45	68	105	41	71	64	96	65	98
W'DUTY (L/S/H)	0.93	0.69	0.26	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.97	1.61	1.24	1.79 vvvv	0.77	1.07	1.35	1.56	1.26	1.37	0.90	0.42	0.16	0.45	0.52	0.78	1.11	0.48	0.82	0.74	1.11	0.75	1.03

NOTE : Rainfall data is for 80% probability of occurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project BASILAN PROJ. (RAINFALL STA.= ISABELA ; EVAP. STA.= MSU)

UNITS : mm



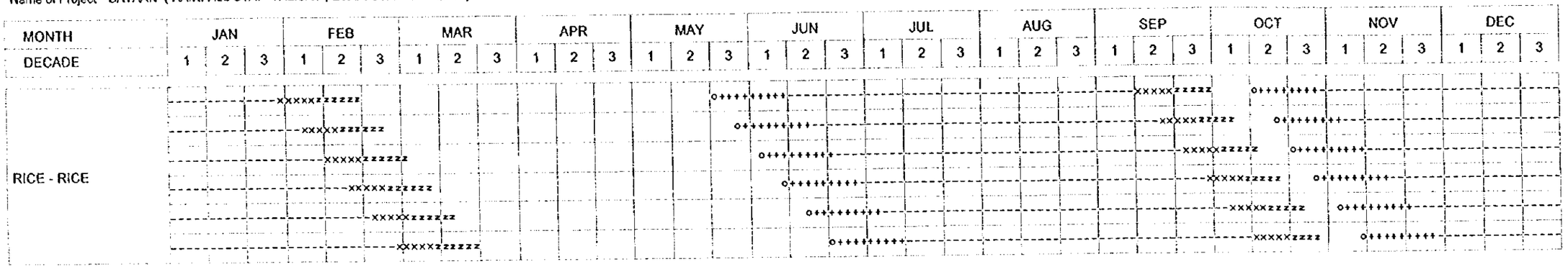
RAINFALL DATA	9	9	10	9	9	7	8	8	9	17	17	17	43	43	47	52	52	52	52	52	57	67	67	73	45	45	45	54	54	59	23	23	23	15	15	21
EVAP. DATA	27	27	29	33	33	27	34	34	37	39	39	39	36	36	39	29	29	29	30	30	33	36	36	39	32	32	32	32	32	35	33	33	33	28	28	30
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	28	20	11	1	0	0	0	0	0	0	0	0	8	20	36	30	31	32	33	33	37	39	39	32	13	3	9	20	31	38	36	36	36	30	30	33
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	48	33	18	2	0	0	0	0	0	0	0	0	37	55	87	58	59	52	53	53	59	59	59	48	21	12	36	59	74	70	61	56	56	50	50	55
EFF. RAINFALL	9	7	5	1	0	0	0	0	0	0	0	0	17	30	47	51	52	52	52	52	56	59	59	48	18	8	18	41	53	58	23	23	23	15	15	21
CROP IRRG. REQT.	39	26	13	1	0	0	0	0	0	0	0	0	20	25	40	7	7	0	2	2	3	0	0	0	3	4	18	18	21	12	39	34	34	35	35	34
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	71	48	24	1	0	0	0	0	0	0	0	0	44	56	88	16	16	0	4	4	6	0	0	0	6	6	32	33	39	22	70	61	61	64	64	62
W'DUTY (L/S/H)	0.82	0.56	0.26	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.65	0.92 vvvv	0.18	0.19	0.00	0.04	0.04	0.07	0.00	0.00	0.00	0.07	0.07	0.37	0.39	0.45	0.23	0.81	0.71	0.71	0.74	0.74	0.65

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project BATAAN (RAINFALL STA.= TALISAY ; EVAP. STA.= TIBAGAN)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

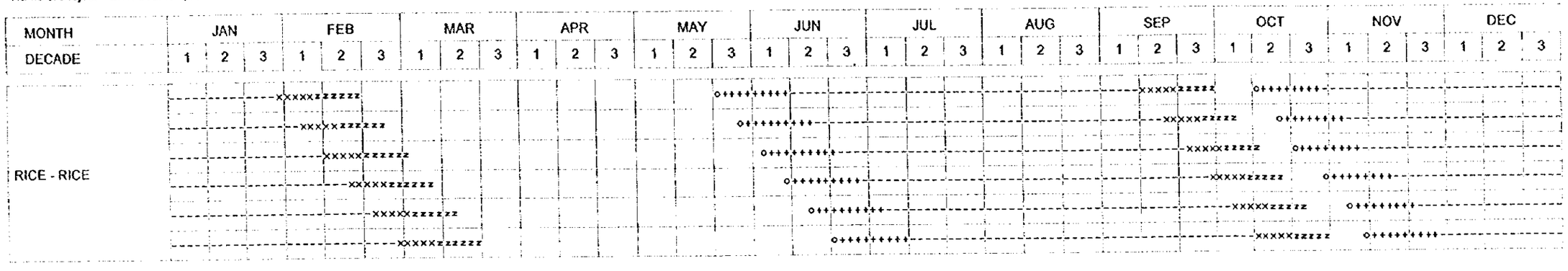
RAINFALL DATA	0	0	0	1	0	0	0	1	0	1	0	2	1	3	21	28	19	32	43	50	34	103	71	76	14	31	34	13	14	8	6	7	3	1	1	1
EVAP. DATA	51	51	56	66	66	53	76	76	83	81	81	81	73	73	80	49	49	49	43	43	48	40	40	44	38	38	38	45	45	50	42	42	42	46	46	51
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	56	56	59	47	23	2	0	0	0	0	0	0	0	0	19	28	45	51	47	48	52	44	44	49	41	30	16	4	13	32	41	45	46	51	51	56
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	76	76	80	60	30	3	0	0	0	0	0	0	0	0	52	83	92	79	75	68	74	64	64	71	61	45	24	13	39	76	84	72	71	71	71	78
EFF. RAINFALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	19	19	32	43	50	34	64	64	71	14	25	15	4	6	6	6	7	3	1	0	1
CROP IRRG. REQT.	76	76	80	60	29	3	0	0	0	0	0	0	0	0	44	44	72	46	32	17	41	0	0	0	47	20	8	9	34	70	79	66	68	69	70	77
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	138	138	145	109	54	5	0	0	0	0	0	0	0	0	97	97	161	103	71	39	90	0	0	0	104	44	18	17	61	128	143	120	124	126	127	139
W*DUTY (L/S/H)	1.60	1.60	1.52	1.26	0.62	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.13	1.86 vvvv	1.19	0.83	0.45	0.95	0.00	0.00	0.00	1.20	0.51	0.21	0.19	0.71	1.34	1.66	1.38	1.44	1.46	1.46	1.47

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project BATANGAS (RAINFALL STA.= NASUGBU ; EVAP. STA.= LOS BNANOS)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

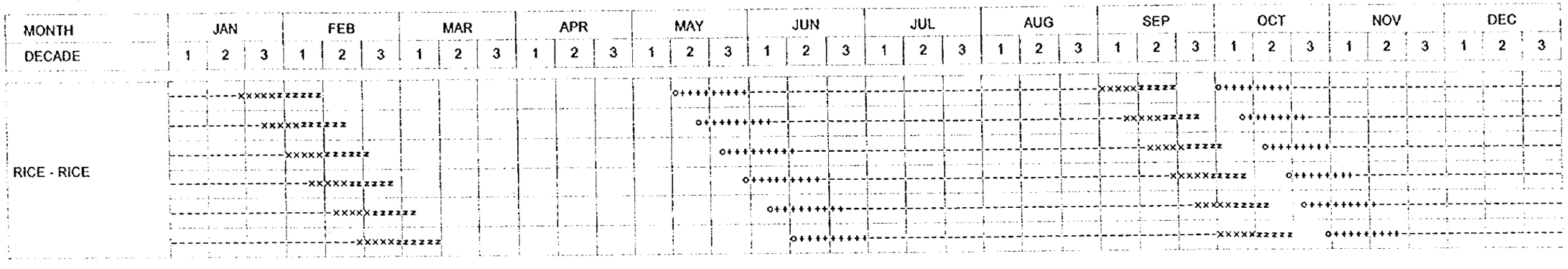
RAINFALL DATA	0	1	0	0	1	0	0	1	0	1	0	1	1	4	16	9	30	42	18	55	55	105	73	17	37	30	29	49	29	6	5	6	2	1	0	1
EVAP. DATA	42	42	46	54	54	43	66	66	72	76	76	76	65	65	72	51	51	51	44	44	48	43	43	47	40	40	40	41	41	45	36	36	36	35	35	39
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	46	46	48	39	19	2	0	0	0	0	0	0	0	0	17	29	47	53	48	48	53	47	47	52	43	32	17	4	12	29	35	38	39	39	39	43
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	66	66	69	52	25	2	0	0	0	0	0	0	0	0	50	64	94	81	75	68	75	67	67	74	63	46	24	13	38	73	78	66	64	59	59	65
EFF. RAINFALL	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	6	30	42	18	54	54	67	67	17	37	24	13	9	12	5	5	6	2	1	0	1
CROP IRRG. REQT.	66	65	69	51	25	2	0	0	0	0	0	0	0	0	44	58	64	39	57	14	21	0	0	57	26	22	11	3	26	69	73	59	62	58	59	64
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	119	118	125	94	46	4	0	0	0	0	0	0	0	0	97	129	143	87	127	32	48	0	0	127	58	49	24	6	48	125	133	108	114	105	107	116
W*DUTY (L/S/H)	1.38	1.36	1.32	1.08	0.53	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.50	1.66	1.01	1.47	0.37	0.50	0.00	0.00	1.33	0.67	0.57	0.28	0.07	0.56	1.31	1.54	1.25	1.31	1.21	1.23	1.22

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project BOHOL (RAINFALL STA.= DAGOHOY ; EVAP. STA = DANICOP)

UNITS : mm



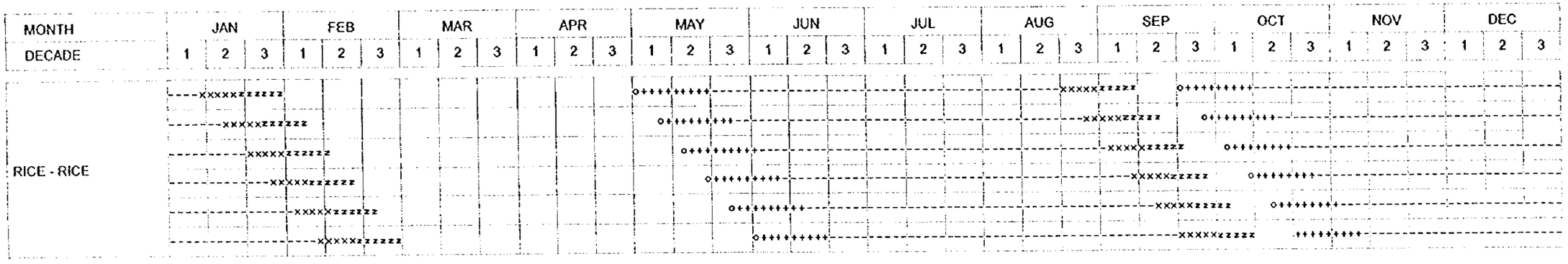
RAINFALL DATA	23	16	18	11	12	3	7	5	6	3	3	2	1	13	12	10	16	34	56	18	30	12	9	21	11	27	43	44	32	17	27	30	28	36	20	11
EVAP. DATA	38	38	42	44	44	35	49	49	54	51	51	51	50	50	55	37	37	37	40	40	44	40	40	44	36	36	36	34	34	37	36	36	36	34	34	38
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	25	27	29	8	8	0	0	0	0	0	0	0	0	7	21	27	28	8	5	0	0	0	0
EVAP / TRANS	42	40	30	15	1	0	0	0	0	0	0	0	0	11	31	35	39	41	44	44	48	44	44	48	28	15	3	10	21	36	38	39	39	38	38	42
DEEP PERCOLATION	20	19	15	6	1	0	0	0	0	0	0	0	0	4	12	18	20	20	20	20	22	20	20	22	14	8	2	6	12	21	20	20	20	20	20	22
CROP WATER REQT.	62	60	45	22	2	0	0	0	0	0	0	0	0	40	70	82	67	68	64	64	70	64	64	69	43	23	12	36	61	84	65	64	59	58	58	4
EFF. RAINFALL	23	16	15	5	1	0	0	0	0	0	0	0	0	5	9	10	16	34	55	18	30	12	9	21	9	12	8	17	25	17	27	30	28	36	20	11
CROP IRRG. REQT.	39	44	30	17	1	0	0	0	0	0	0	0	0	34	62	72	51	34	9	46	40	52	55	48	33	10	4	19	35	67	38	33	31	22	38	52
OVERALL EFF.	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	71	80	55	30	1	0	0	0	0	0	0	0	0	77	137	160	113	75	19	101	89	116	123	106	74	22	7	34	64	122	69	61	41	41	69	95
W*DUTY (L/S/H)	0.82	0.93	0.58	0.35	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	1.44	1.85 vvvv	1.30	0.87	0.22	1.17	0.94	1.34	1.43	1.12	0.86	0.26	0.08	0.39	0.74	1.28	0.80	0.70	0.47	0.47	0.80	1.00

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project BUKIDNON (RAINFALL STA.= CAMP PHILIPS ; EVAP. STA.= CMU)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

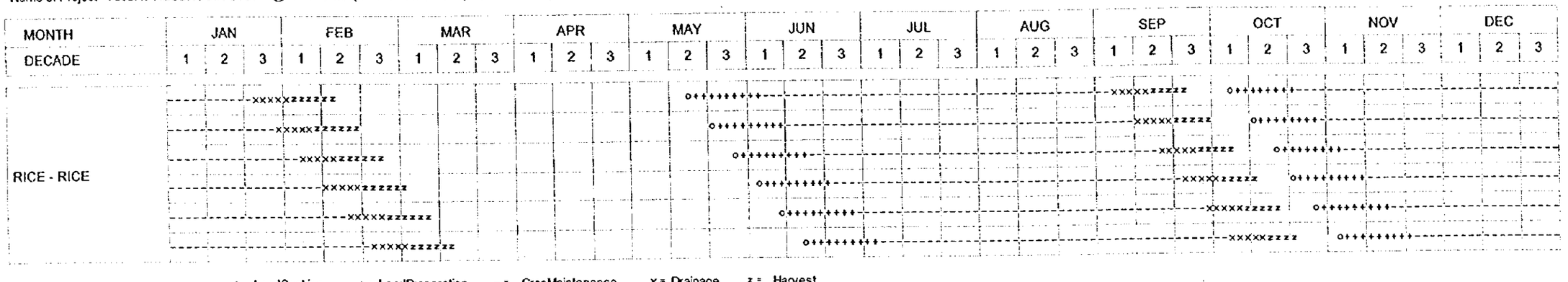
RAINFALL DATA	9	12	9	5	5	5	10	5	3	3	6	8	17	32	52	52	80	74	62	50	59	32	37	68	45	40	67	47	33	23	29	21	11	11	12	17
EVAP. DATA	52	52	57	63	63	51	75	75	83	79	79	79	62	62	68	46	46	46	43	43	47	44	44	48	47	47	47	45	45	49	47	47	47	47	47	52
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0
EVAP / TRANS	55	39	21	2	0	0	0	0	0	0	0	0	14	34	62	48	50	51	47	47	52	48	48	39	19	5	13	28	43	52	51	52	52	52	52	57
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	75	52	28	3	0	0	0	0	0	0	0	0	42	69	112	76	78	71	67	67	74	68	68	55	27	13	40	67	86	84	76	72	72	72	72	79
EFF. RAINFALL	9	10	5	1	0	0	0	0	0	0	0	0	7	22	52	52	42	69	60	50	58	32	37	49	20	9	26	37	33	23	29	21	11	11	12	17
CROP IRRG. REQT.	66	42	24	2	0	0	0	0	0	0	0	0	36	47	61	24	6	1	7	17	16	36	31	6	7	4	14	30	53	61	47	51	61	60	60	62
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	119	77	43	4	0	0	0	0	0	0	0	0	80	105	135	54	13	3	16	38	37	80	68	14	16	8	26	55	97	111	86	93	111	110	109	112
W*DUTY (L/S/H)	1.38	0.89	0.46	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.21	1.42	0.63	0.15	0.03	0.19	0.44	0.38	0.93	0.79	0.15	0.18	0.09	0.30	0.64	1.13	1.17	0.99	1.08	1.28	1.27	1.26	1.18
															vvvv																					

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project ANGAT RESERVOIR STUDY @ BULACAN (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm



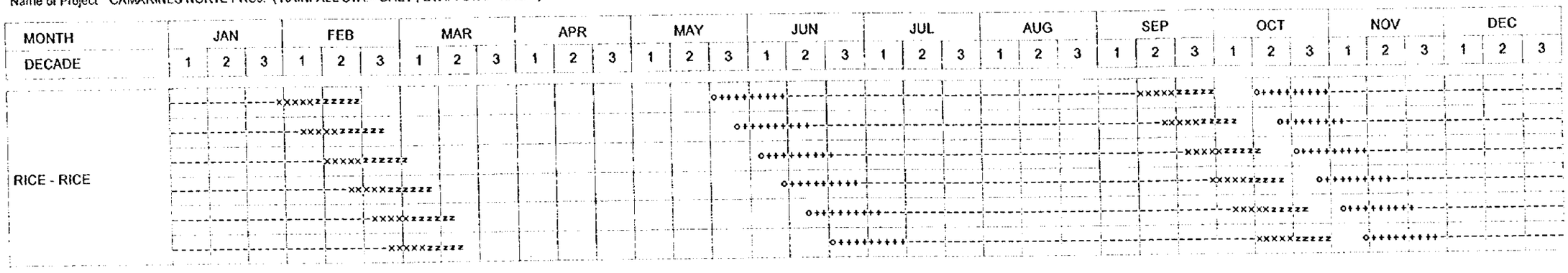
RAINFALL DATA	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19	42	42	42	72	72	72	77	77	77	37	37	37	25	25	26	18	18	18	0	0	0
EVAP. DATA	52	52	57	82	82	65	77	77	85	82	82	82	73	73	80	48	48	48	43	43	48	40	40	44	38	38	38	45	45	50	42	42	42	47	47	52
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	14	28	29	15	8	3	0	0	0	0	0	0	0	0	21	21	36	10	8	0	0	0	0
EVAP / TRANS	57	57	50	40	11	0	0	0	0	0	0	0	0	7	35	38	50	52	48	48	52	44	44	48	36	22	8	7	22	42	44	45	46	52	52	57
DEEP PERCOLATION	20	0	18	9	2	0	0	0	0	0	0	0	0	2	10	16	20	20	20	20	22	20	20	22	17	10	4	3	10	18	20	20	20	20	20	22
CROP WATER REQT.	77	77	68	49	13	0	0	0	0	0	0	0	0	22	73	82	85	79	70	68	74	64	64	70	53	32	11	31	52	96	74	73	66	72	72	79
EFF. RAINFALL	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	38	42	42	68	68	68	64	64	70	34	22	9	8	15	26	18	18	18	0	0	0
CROP IRRG. REQT.	77	77	68	49	13	0	0	0	0	0	0	0	0	19	61	44	43	37	2	0	7	0	0	0	19	11	2	23	37	70	56	55	48	72	72	79
OVERALL EFF.	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	140	140	123	90	24	0	0	0	0	0	0	0	0	41	136	98	94	82	5	0	15	0	0	0	41	23	4	42	68	128	102	100	88	131	131	144
W'DUTY (L/S/H)	1.62 vvvv	1.62	1.29	1.04	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	1.43	1.14	1.09	0.95	0.06	0.00	0.16	0.00	0.00	0.00	0.48	0.27	0.05	0.49	0.78	1.34	1.18	1.16	1.01	1.52	1.52	1.52

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project CAMARINES NORTE PROJ. (RAINFALL STA.= DAET ; EVAP. STA.= NAGA)

UNITS : mm



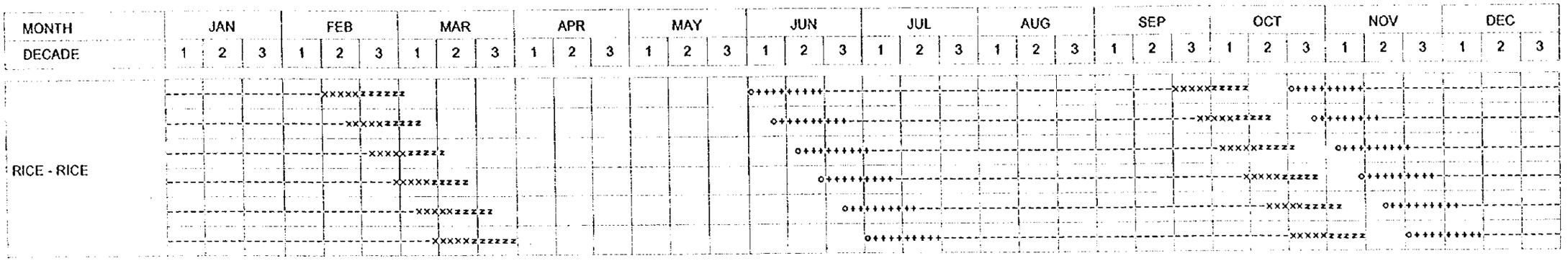
RAINFALL DATA	63	63	64	33	33	27	20	20	22	26	26	26	19	19	21	33	33	33	43	43	52	40	40	43	55	55	55	121	121	128	127	127	127	116	116	126
EVAP. DATA	49	49	54	49	49	39	57	57	62	62	62	62	59	59	64	50	50	50	49	49	54	47	47	52	46	46	46	47	47	52	46	46	46	45	45	49
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	54	54	56	35	17	2	0	0	0	0	0	0	0	0	15	29	47	53	54	54	60	52	52	57	50	37	19	5	13	33	45	49	51	49	49	54
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	74	74	77	48	24	2	0	0	0	0	0	0	0	0	48	64	94	81	81	74	82	72	72	79	69	51	27	13	40	77	88	77	76	69	69	76
EFF. RAINFALL	60	60	61	25	14	2	0	0	0	0	0	0	0	0	8	23	33	33	43	43	52	40	40	43	54	41	23	13	37	73	86	77	76	69	69	76
CROP IRRG. REQT.	13	13	17	23	10	0	0	0	0	0	0	0	0	0	40	41	60	47	38	31	30	32	32	36	15	10	4	0	3	4	2	0	0	0	0	0
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	25	25	31	42	18	0	0	0	0	0	0	0	0	0	89	91	134	105	85	70	67	71	71	80	34	22	10	0	5	8	3	0	0	0	0	0
W'DUTY (L/S/H)	0.28	0.28	0.32	0.49	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	1.06	1.56 vvvv	1.22	0.98	0.81	0.70	0.82	0.82	0.85	0.40	0.26	0.11	0.00	0.06	0.08	0.04	0.00	0.00	0.00	0.00	0.00

vvvv = CRITICAL

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

Name of Project CAMARINES SUR (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm



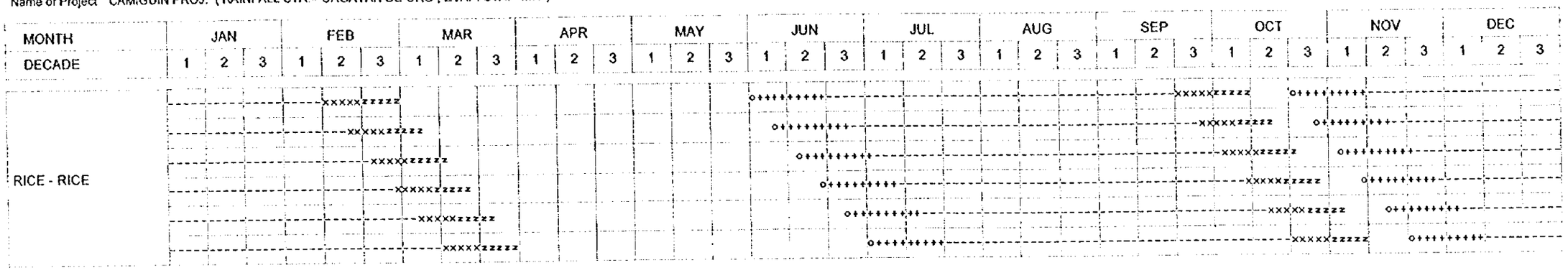
RAINFALL DATA	4	4	4	2	2	2	1	1	1	2	2	2	14	14	14	46	46	46	75	75	75	49	49	49	53	53	53	35	35	35	33	33	33	15	15	15
EVAP. DATA	45	45	49	48	48	38	51	51	51	59	59	59	56	56	62	51	51	51	44	44	48	43	43	47	41	41	41	37	37	40	42	42	42	40	40	44
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	4	25	27	25	10	5	0	0
EVAP / TRANS	49	49	54	51	36	16	5	0	0	0	0	0	0	0	0	0	11	28	46	46	48	53	47	47	52	45	45	34	17	4	11	26	40	44	44	44	48
DEEP PERCOLATION	20	20	22	19	14	6	2	0	0	0	0	0	0	0	0	0	4	11	18	20	20	22	20	20	22	20	20	15	8	2	6	12	19	20	20	20	22
CROP WATER REQT.	69	69	76	70	49	23	7	0	0	0	0	0	0	0	0	0	40	64	94	74	75	75	67	67	74	64	64	49	25	10	41	65	84	74	69	64	70
EFF. RAINFALL	4	4	4	2	2	1	0	0	0	0	0	0	0	0	0	0	18	32	46	67	69	70	49	49	49	52	52	41	17	9	14	26	33	33	15	15	15
CROP IRRG. REQT.	65	65	72	68	48	22	7	0	0	0	0	0	0	0	0	0	22	31	48	6	6	5	18	18	25	13	12	8	8	1	27	39	51	41	54	49	55
OVERALL EFF.	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55
DIVERSION REQT.	119	119	131	124	87	39	12	0	0	0	0	0	0	0	0	0	49	70	108	14	14	11	40	40	55	28	27	17	19	2	49	71	92	75	98	89	101
W'DUTY (L/S/H)	1.37	1.37	1.38	1.44 vvv	1.01	0.57	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.81	1.24	0.16	0.16	0.12	0.47	0.47	0.58	0.33	0.31	0.20	0.22	0.02	0.52	0.82	1.07	0.87	1.13	1.03	1.06

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvv = CRITICAL

Name of Project CAMIGUIN PROJ. (RAINFALL STA.= CAGAYAN DE ORO ; EVAP. STA.= MIT)

UNITS : mm



RAINFALL DATA	1	1	1	1	0	0	1	0	0	0	0	0	0	2	5	17	21	21	50	29	28	17	15	30	20	20	27	26	23	11	8	6	2	2	3	3
EVAP. DATA	50	50	55	54	54	44	55	55	60	59	59	59	53	53	58	50	50	50	45	45	50	49	49	54	50	50	50	48	48	53	48	48	48	45	45	50
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	4	25	27	25	10	5	0	0
EVAP / TRANS	55	55	61	58	41	19	5	0	0	0	0	0	0	0	0	11	28	45	48	49	55	54	54	60	55	55	41	22	5	14	30	46	51	49	50	54
DEEP PERCOLATION	20	20	22	19	14	6	2	0	0	0	0	0	0	0	0	4	11	18	20	20	22	20	20	22	20	20	15	8	2	6	12	19	20	20	20	22
CROP WATER REQT.	75	75	83	78	54	25	7	0	0	0	0	0	0	0	0	40	63	94	72	77	77	74	74	82	75	74	56	31	11	44	69	90	81	74	70	76
EFF. RAINFALL	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	7	15	21	50	29	28	17	15	30	20	20	23	14	7	4	6	6	2	2	3	3
CROP IRRG. REQT.	74	74	82	77	54	25	7	0	0	0	0	0	0	0	0	33	48	73	25	48	49	57	59	52	55	54	33	17	4	40	63	84	79	72	67	73
OVERALL EFF.	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55
DIVERSION REQT.	135	135	149	139	99	45	13	0	0	0	0	0	0	0	0	74	108	162	56	106	108	127	132	115	122	121	74	37	9	72	114	152	144	131	121	134
W'DUTY (L/S/H)	1.56	1.56	1.57	1.61	1.14	0.65	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	1.25	1.87	0.65	1.23	1.14	1.47	1.52	1.21	1.42	1.40	0.85	0.43	0.10	0.76	1.33	1.76	1.66	1.52	1.40	1.41
																		vvvv																		

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project CAPIZ (RAINFALL STA = ROXAS ; EVAP. STA.= ROXAS)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

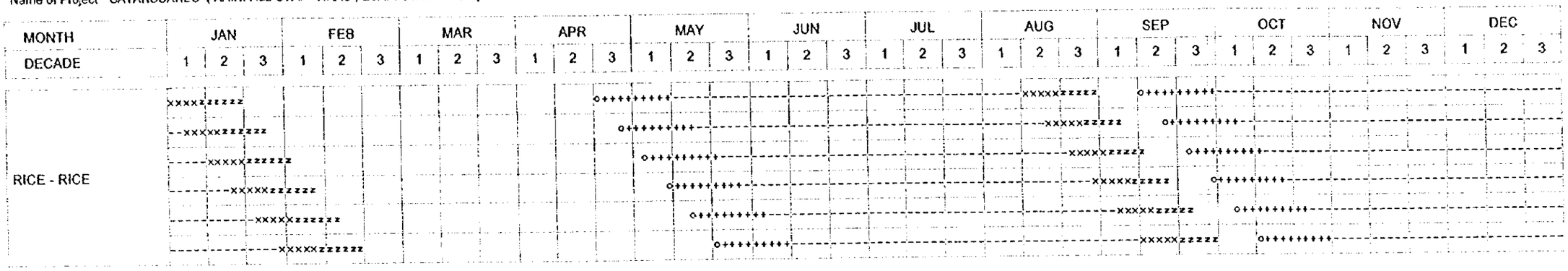
RAINFALL DATA	7	9	9	3	2	2	4	2	2	2	2	4	1	5	13	14	26	51	35	39	25	8	46	26	53	22	29	61	41	33	22	23	22	28	13	17
EVAP. DATA	46	46	50	49	49	39	57	57	62	62	62	62	59	59	64	50	50	50	49	49	54	47	47	52	46	46	46	47	47	52	46	46	46	45	45	49
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	25	27	29	8	8	0	0	0	0	0	0	0	0	7	21	27	28	8	5	0	0	0	0
EVAP / TRANS	50	49	37	17	2	0	0	0	0	0	0	0	0	13	36	47	53	55	54	54	60	52	52	56	37	19	4	13	29	50	49	51	51	49	49	54
DEEP PERCOLATION	20	19	15	6	1	0	0	0	0	0	0	0	0	4	12	18	20	20	20	20	22	20	20	22	14	8	2	6	12	21	20	20	20	20	20	22
CROP WATER REQT.	70	68	51	24	2	0	0	0	0	0	0	0	0	42	76	94	81	82	74	74	82	72	72	78	51	27	13	40	69	98	77	76	71	69	69	76
EFF. RAINFALL	7	9	7	2	0	0	0	0	0	0	0	0	0	2	9	14	26	51	35	39	25	8	46	26	40	11	7	24	32	33	22	23	22	28	13	17
CROP IRRG. REQT.	63	59	44	22	2	0	0	0	0	0	0	0	0	40	66	79	55	32	39	36	56	64	26	52	11	16	6	16	36	65	55	52	49	41	56	59
OVERALL EFF.	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	114	107	80	40	4	0	0	0	0	0	0	0	0	89	147	176	121	70	87	79	125	142	58	116	24	35	11	29	66	118	99	95	89	74	101	107
W'DUTY (L/S/H)	1.32	1.24	0.84	0.47	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.55	2.04 vvvv	1.41	0.81	1.01	0.91	1.32	1.64	0.67	1.22	0.28	0.41	0.13	0.34	0.76	1.24	1.15	1.10	1.03	0.86	1.17	1.12

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project CATANDUANES (RAINFALL STA.= VIRAC ; EVAP. STA.= NAGA)

UNITS : mm



RAINFALL DATA	16	9	15	9	9	6	9	8	6	6	8	12	7	17	9	14	18	39	43	29	12	14	14	12	15	26	30	42	42	45	56	61	41	46	27	35
EVAP. DATA	45	45	49	48	48	38	51	51	56	59	59	59	56	56	62	51	51	51	44	44	48	43	43	47	41	41	41	37	37	40	41	41	41	40	40	44
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0	0
EVAP / TRANS	33	17	2	0	0	0	0	0	0	0	0	13	31	50	65	56	56	56	48	48	53	46	35	21	4	11	25	35	39	44	46	46	46	44	44	47
DEEP PERCOLATION	14	7	1	0	0	0	0	0	0	0	0	4	11	18	55	20	20	20	20	20	22	20	15	9	2	6	12	19	20	22	20	20	20	20	20	21
CROP WATER REQT.	47	24	3	0	0	0	0	0	0	0	0	42	66	99	94	83	76	76	68	68	75	66	50	29	13	38	65	79	69	71	66	66	66	64	64	68
EFF. RAINFALL	13	4	2	0	0	0	0	0	0	0	0	5	5	17	9	14	18	39	43	29	12	14	12	7	4	10	24	42	42	45	55	58	41	46	27	35
CROP IRRG. REQT.	34	20	1	0	0	0	0	0	0	0	0	37	61	82	86	69	58	37	25	38	63	53	38	23	8	28	40	36	26	26	11	7	25	18	36	33
OVERALL EFF.	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	62	36	2	0	0	0	0	0	0	0	0	83	137	183	190	153	129	83	56	85	139	117	84	51	15	50	73	66	48	47	20	13	45	33	66	61
W'DUTY (L/S/H)	0.71	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	1.58	2.11	2.00	1.77	1.49	0.96	0.65	0.99	1.46	1.36	0.97	0.53	0.18	0.58	0.85	0.76	0.55	0.49	0.23	0.15	0.52	0.38	0.76	0.64

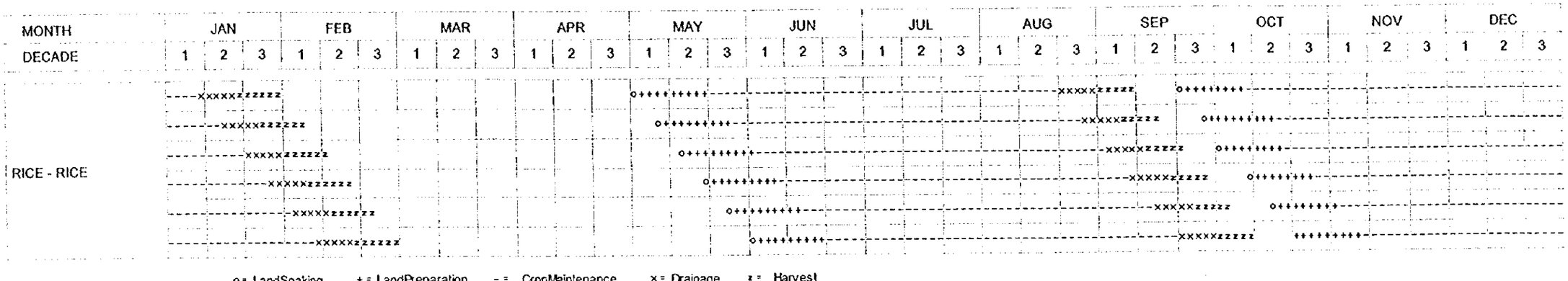
vvvv

vvvv = CRITICAL

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

Name of Project GEN. AGUINALDO, CAVITE (RAINFALL STA.= MAITIM ; EVAP. STA.= LOS BANOS)

UNITS : mm



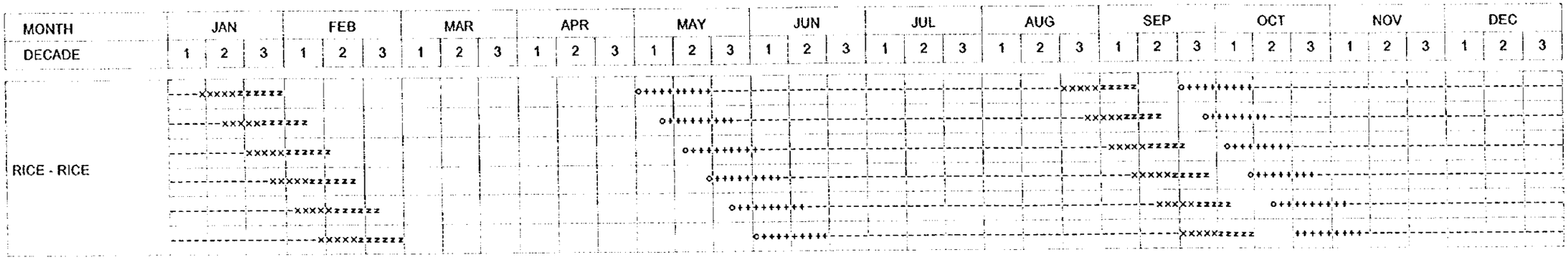
RAINFALL DATA	0	0	0	0	0	0	0	0	0	1	2	4	3	2	5	4	20	20	15	9	10	21	24	11	4	13	12	41	15	7	6	5	1	1	1	1
EVAP. DATA	41	41	45	54	54	43	66	66	72	76	76	76	65	65	72	51	51	51	44	44	48	43	43	47	40	40	40	41	41	45	36	36	36	35	35	39
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	44	31	17	2	0	0	0	0	0	0	0	0	14	36	65	54	55	56	48	48	53	47	47	38	17	4	11	26	39	48	39	39	39	39	39	43
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	63	44	24	2	0	0	0	0	0	0	0	0	43	71	116	81	83	73	68	68	75	67	67	55	24	13	38	65	83	80	64	59	59	59	59	65
EFF. RAINFALL	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	4	20	20	15	9	10	21	24	9	2	4	5	33	15	7	6	5	1	1	1	1
CROP IRRG. REQT.	63	44	24	2	0	0	0	0	0	0	0	0	42	70	111	77	63	56	53	59	65	46	42	45	22	9	33	32	68	73	58	54	58	58	58	64
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	114	80	44	4	0	0	0	0	0	0	0	0	94	155	247	172	139	125	119	131	145	102	94	100	50	16	60	58	123	132	106	98	106	105	105	117
W'DUTY (L/S/H)	1.32	0.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.80	2.60 vvvv	1.99	1.61	1.45	1.38	1.52	1.53	1.19	1.09	1.05	0.57	0.19	0.70	0.67	1.43	1.39	1.22	1.14	1.23	1.21	1.22	1.23

NOTE : Rainfall data is for 80% probability of occurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project CEBU (RAINFALL STA = DALAGUETE ; EVAP. STA = CEBU)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

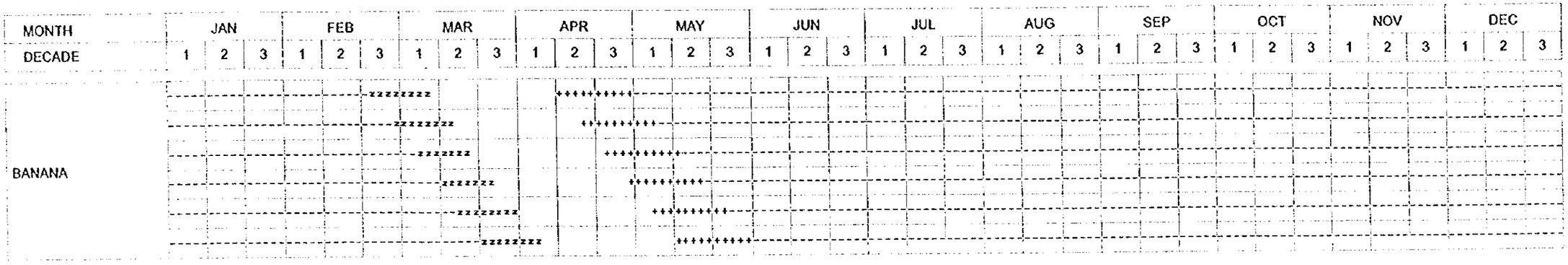
RAINFALL DATA	19	6	13	14	9	5	8	3	4	1	2	3	5	16	9	24	9	10	28	22	9	19	11	15	13	16	27	33	41	26	31	23	9	11	18	12
EVAP. DATA	42	42	46	48	48	38	53	53	59	59	59	59	52	52	58	44	44	44	40	40	44	42	42	47	38	38	38	39	39	43	40	40	40	39	39	43
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	45	32	17	2	0	0	0	0	0	0	0	0	12	29	52	46	47	48	44	44	49	47	46	38	16	4	11	24	37	46	43	44	44	43	43	47
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	64	45	25	2	0	0	0	0	0	0	0	0	40	64	103	73	75	68	64	64	71	67	66	54	24	13	37	64	81	78	68	64	64	63	63	69
EFF. RAINFALL	19	5	6	1	0	0	0	0	0	0	0	0	2	11	9	24	9	10	28	22	9	19	11	14	6	4	11	27	41	26	31	23	9	11	18	12
CROP IRRG. REQT.	45	41	18	1	0	0	0	0	0	0	0	0	38	53	94	49	65	58	36	42	62	48	55	40	17	8	26	37	40	52	37	41	55	52	45	57
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	42	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	82	74	33	1	0	0	0	0	0	0	0	0	86	118	208	110	146	128	80	94	138	106	122	90	39	15	48	67	73	94	68	74	99	94	81	103
W*DUTY (L/S/H)	0.95	0.85	0.35	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	1.36	2.19	1.27	1.68	1.48	0.92	1.08	1.45	1.23	1.41	0.94	0.45	0.17	0.56	0.78	0.84	0.99	0.79	0.86	1.15	1.09	0.94	1.09
															vvvv																				

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project DAVAO DEL NORTE (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm



RAINFALL DATA	20	22	31	26	22	8	16	15	8	5	30	17	37	36	28	21	40	50	42	36	20	11	13	33	25	43	39	37	42	56	44	36	37	15	27	22
EVAP. DATA	32	32	35	34	34	27	38	38	42	42	42	42	44	44	48	37	37	37	37	37	41	41	41	45	40	40	40	38	38	42	37	37	37	36	36	40
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EVAP / TRANS	32	32	35	34	34	26	33	22	11	1	0	1	8	16	24	20	24	28	32	32	35	36	40	47	44	44	44	40	39	42	37	37	37	36	36	40
DEEP PERCOLATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CROP WATER REQT.	32	32	35	34	34	26	33	22	11	1	0	1	8	16	24	20	24	28	32	32	35	36	40	47	44	44	44	40	39	42	37	37	37	36	36	40
EFF. RAINFALL	20	22	31	26	22	8	16	11	4	0	0	1	8	16	24	19	24	28	32	32	20	11	13	33	25	43	39	37	39	42	37	36	37	15	27	22
CROP IRRG. REQT.	12	10	3	8	12	18	17	11	7	0	0	0	0	0	0	1	0	0	0	0	14	26	27	14	19	2	5	3	0	0	0	0	0	22	9	18
OVERALL EFF.	55	55	55	55	55	55	55	55	55	55	0	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	21	18	6	14	21	33	31	20	13	0	0	0	0	0	0	1	0	0	0	0	26	46	48	26	35	3	10	6	0	0	0	0	0	39	17	33
W'DUTY (L/S/H)	0.25	0.21	0.06	0.17	0.24	0.48	0.36	0.23	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.28	0.54	0.56 vvvv	0.27	0.40	0.04	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.20	0.35

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

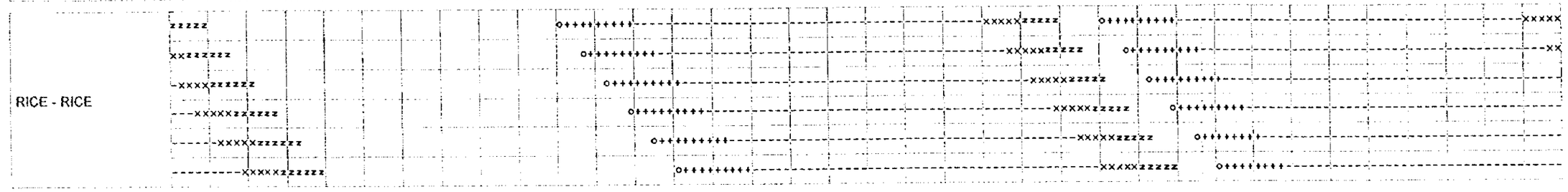
vvvv = CRITICAL

Name of Project DAVAO DEL NORTE (RAINFALL STA.= TWIN R. RESEARCH CENTER ; EVAP. STA.= TAGUM)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3

RICE - RICE



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

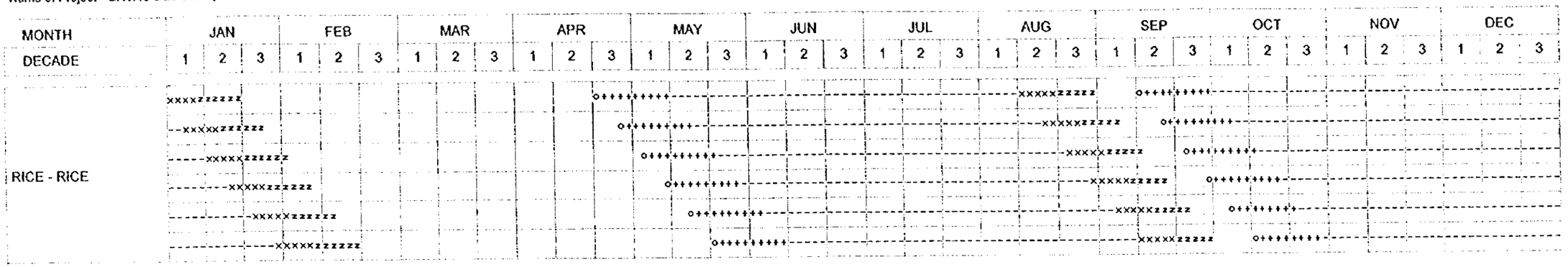
RAINFALL DATA	20	22	31	26	22	8	16	15	8	5	30	17	37	36	28	21	40	50	42	36	20	11	13	33	25	43	39	37	42	56	44	36	37	15	27	22
EVAP. DATA	32	32	35	34	34	27	38	38	42	42	42	42	44	44	48	37	37	37	37	41	41	41	41	45	40	40	40	38	38	42	37	37	37	36	36	40
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0	0	0
EVAP / TRANS	12	2	0	0	0	0	0	0	0	0	9	23	39	46	52	41	41	41	41	41	45	34	19	5	11	25	39	40	41	46	40	40	40	40	39	31
DEEP PERCOLATION	7	1	0	0	0	0	0	0	0	0	4	11	18	20	22	20	20	20	20	20	22	15	8	2	6	12	19	20	20	22	20	20	20	20	20	15
CROP WATER REQT.	19	3	0	0	0	0	0	0	0	0	38	59	88	73	82	61	61	61	61	61	67	49	27	14	38	65	82	70	66	68	60	60	60	60	59	46
EFF. RAINFALL	9	3	0	0	0	0	0	0	0	0	12	12	37	36	28	21	40	50	42	36	20	10	7	9	10	34	39	37	42	55	44	36	37	15	27	18
CROP IRRG. REQT.	10	0	0	0	0	0	0	0	0	0	26	47	51	37	53	40	21	11	19	26	46	39	20	5	28	30	44	33	25	13	16	24	23	45	32	28
OVERALL EFF.	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	18	0	0	0	0	0	0	0	0	0	58	104	114	82	119	88	46	24	42	57	103	87	45	12	51	55	79	61	45	24	29	43	43	82	58	52
W*DUTY (L/S/H)	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.21	1.32	0.95	1.25	1.02	0.53	0.28	0.49	0.66	1.08	1.01	0.52	0.13	0.59	0.64	0.92	0.70	0.52	0.25	0.33	0.50	0.49	0.95	0.67	0.54
													vvvv																							

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project DAVAO DEL SUR (RAINFALL STA.= STA. CRUZ ; EVAP. STA.= TWIN R. RESEARCH CENTER)

UNITS : mm



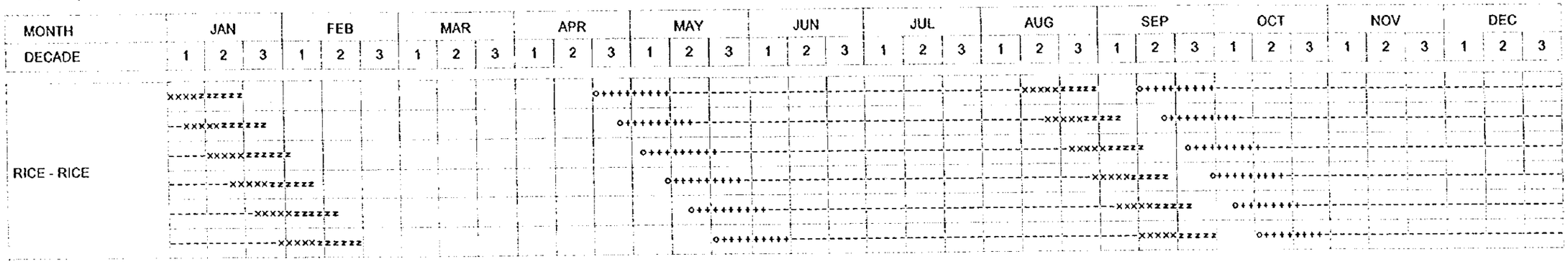
RAINFALL DATA	4	4	2	9	5	3	10	3	3	5	8	18	39	35	44	36	57	56	25	21	3	21	12	26	14	10	15	18	26	8	31	9	5	10	4	7
EVAP. DATA	32	32	35	34	34	27	38	38	42	42	42	42	44	44	48	37	37	37	37	37	41	41	41	45	40	40	40	38	38	42	37	37	37	36	36	40
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0	0
EVAP / TRANS	24	12	2	0	0	0	0	0	0	0	0	9	24	39	51	41	41	41	41	41	45	45	34	20	4	11	25	36	40	46	40	40	40	40	40	43
DEEP PERCOLATION	14	7	1	0	0	0	0	0	0	0	0	4	11	18	22	20	20	20	20	20	22	20	15	9	2	6	12	19	20	22	20	20	20	20	20	21
CROP WATER REQT.	37	19	3	0	0	0	0	0	0	0	0	38	59	88	80	68	61	61	61	61	67	65	49	29	13	38	65	80	70	73	60	60	60	60	60	64
EFF. RAINFALL	4	2	0	0	0	0	0	0	0	0	0	7	27	0.5	44	36	56	55	25	21	3	21	11	14	4	4	12	18	26	8	0.1	9	5	10	4	7
CROP IRRG. REQT.	34	17	2	0	0	0	0	0	0	0	0	31	33	53	36	32	5	6	36	40	64	44	38	15	9	34	52	62	44	65	29	51	55	50	56	57
OVERALL EFF.	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	61	32	4	0	0	0	0	0	0	0	0	69	72	117	80	71	11	13	81	90	143	97	84	33	16	62	95	113	80	118	53	93	101	90	102	104
W'DUTY (L/S/H)	0.71	0.37	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.84	1.36	0.84	0.82	0.13	0.16	0.93	1.04	1.50 vvvv	1.12	0.97	0.35	0.18	0.71	1.10	1.31	0.93	1.24	0.62	1.08	1.17	1.05	1.18	1.10

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project DAVAO DEL SUR (RAINFALL STA.= STA. CRUZ ; EVAP. STA.= MIT)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

RAINFALL DATA	4	4	2	9	5	3	10	3	3	5	8	18	39	35	44	36	57	56	25	21	3	21	12	26	14	10	15	18	26	8	31	9	5	10	4	7
EVAP. DATA	27	27	29	33	33	27	34	34	37	39	39	39	36	36	39	29	29	29	30	30	33	36	36	39	32	32	32	32	32	35	33	33	33	28	28	30
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0	0
EVAP / TRANS	20	10	1	0	0	0	0	0	0	0	0	9	20	32	42	31	32	32	33	33	37	39	29	17	3	9	20	31	34	39	36	36	36	30	30	32
DEEP PERCOLATION	14	7	1	0	0	0	0	0	0	0	0	4	11	18	22	20	20	20	20	20	22	20	15	9	2	6	12	19	20	22	20	20	20	20	20	21
CROP WATER REQT.	33	17	2	0	0	0	0	0	0	0	0	38	55	81	71	59	52	52	53	53	59	59	44	26	12	36	26	74	64	66	56	56	56	50	50	54
EFF. RAINFALL	4	2	0	0	0	0	0	0	0	0	0	7	27	35	44	36	52	52	25	21	3	21	11	14	4	4	4	18	26	8	31	9	5	10	4	7
CROP IRRG. REQT.	30	15	2	0	0	0	0	0	0	0	0	30	28	46	27	23	0	0	28	33	56	38	33	13	8	32	47	57	38	58	25	47	51	40	46	47
OVERALL EFF.	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	54	28	4	0	0	0	0	0	0	0	0	67	63	102	60	51	0	0	63	72	123	84	74	28	15	58	86	103	69	105	46	86	94	73	84	86
W*DUTY (L/S/H)	0.63	0.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.73	1.18	0.63	0.59	0.00	0.00	0.73	0.84	1.30 vvvv	0.97	0.86	0.29	0.17	0.67	1.00	1.19	0.80	1.11	0.53	0.99	1.08	0.84	0.98	0.90

NOTE : Rainfall data is for 80% probability of occurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project DAVAO DEL SUR PROJ. (RAINFALL STA = STA. CRUZ ; EVAP. STA = TWIN R. RESEARCH CENTER)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
TOBACCO																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

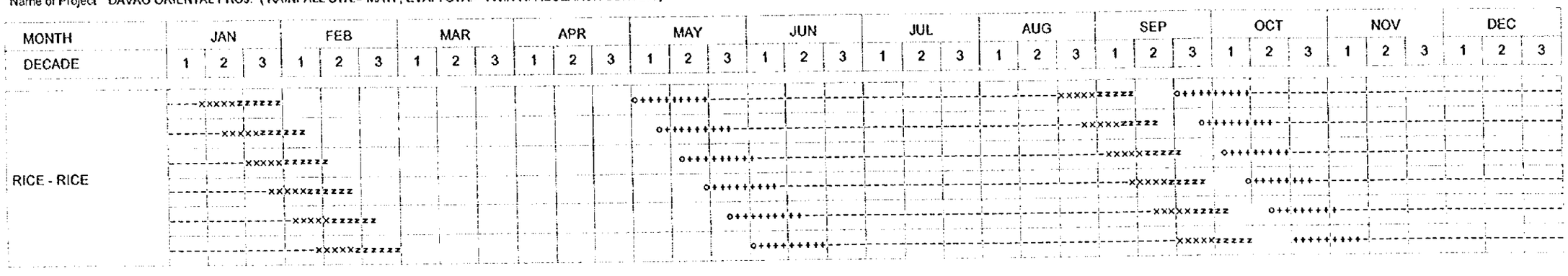
RAINFALL DATA	4	4	2	9	5	3	10	3	3	5	8	18	39	35	44	36	57	56	25	21	3	21	12	26	14	10	15	18	26	8	31	9	5	10	4	7
EVAP. DATA	32	32	35	34	34	27	38	38	42	42	42	42	44	44	48	37	37	37	37	37	41	41	41	45	40	40	40	38	38	42	37	37	37	36	36	40
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EVAP / TRANS	9	5	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10	12	19	25	38	48	52	42	27
DEEP PERCOLATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CROP WATER REQT.	9	5	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10	12	19	25	38	48	52	42	27
EFF. RAINFALL	4	4	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	10	12	8	23	9	5	10	4	7
CROP IRRG. REQT.	5	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2	29	43	42	38	21
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	9	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	3	52	78	76	69	38
W'DUTY (L/S/H)	0.10	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.03	0.60	0.90 vvvv	0.88	0.79	0.40

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project DAVAO ORIENTAL PROJ. (RAINFALL STA.= MATI ; EVAP. STA.= TWIN R. RESEARCH CENTER)

UNITS : mm



RAINFALL DATA	29	29	32	16	16	14	18	18	20	3	3	3	21	21	23	22	22	22	18	18	20	21	21	23	22	22	22	25	25	28	15	15	16	14	14	15
EVAP. DATA	32	32	35	34	34	27	38	38	42	42	42	42	44	44	48	37	37	37	37	37	41	41	41	45	40	40	40	38	38	42	37	37	37	36	36	40
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	34	24	13	1	0	0	0	0	0	0	0	0	10	24	44	39	41	41	41	41	45	45	45	37	17	4	11	24	36	44	40	40	40	40	40	44
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	2	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	53	37	20	2	0	0	0	0	0	0	0	0	38	59	94	67	68	61	61	61	67	65	65	53	25	13	38	63	80	76	65	60	60	60	60	66
EFF. RAINFALL	29	22	13	2	0	0	0	0	0	0	0	0	8	15	23	22	22	22	18	18	20	21	21	20	11	6	9	20	25	28	15	15	16	14	14	15
CROP IRRG. REQT.	24	15	7	0	0	0	0	0	0	0	0	0	30	45	71	45	46	39	43	43	47	45	44	33	14	7	29	43	54	48	50	45	44	46	46	51
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	44	28	13	0	0	0	0	0	0	0	0	0	67	99	158	100	102	87	95	95	104	99	98	74	30	13	53	78	99	88	90	82	80	84	84	92
W'DUTY (L/S/H)	0.51	0.32	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	1.15	1.66 vvvv	1.15	1.18	1.00	1.10	1.10	1.10	1.15	1.13	0.78	0.35	0.15	0.61	0.90	1.15	0.92	1.05	0.95	0.92	0.97	0.97	0.97

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project EASTERN SAMAR (RAINFALL STA.= BORONGAN ; EVAP. STA.= UNIV. OF E. SAMAR)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

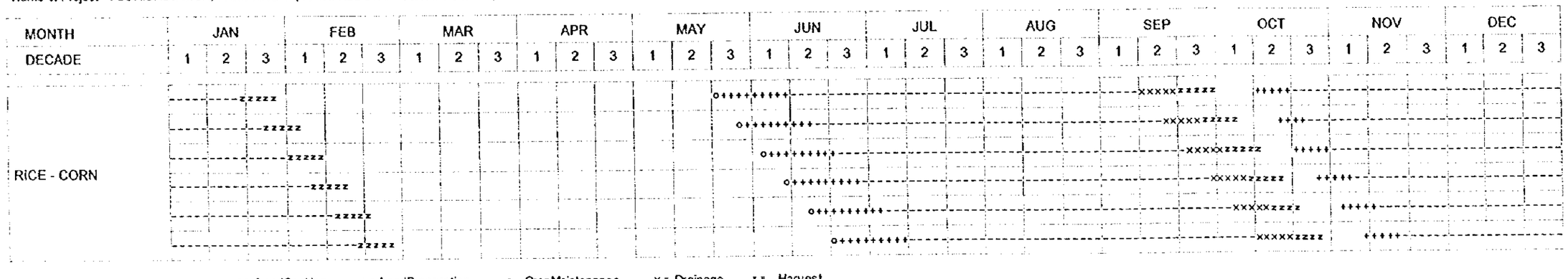
RAINFALL DATA	123	114	138	52	49	45	133	27	32	25	28	51	65	73	24	55	10	34	53	7	24	8	5	50	18	17	39	27	62	85	49	46	91	154	48	91
EVAP. DATA	36	36	39	46	46	37	56	56	61	61	61	61	57	57	63	49	49	49	47	47	52	47	47	52	53	53	53	46	46	50	35	35	35	33	33	36
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	4	25	27	25	10	5	0	0	0	0	0	0	0	0
EVAP / TRANS	2	0	0	0	0	0	0	0	0	13	34	55	60	62	69	54	54	54	52	52	44	22	5	14	33	50	56	50	50	55	39	39	39	35	26	14
DEEP PERCOLATION	1	0	0	0	0	0	0	0	0	4	11	18	20	20	22	20	20	20	20	20	17	8	2	6	12	19	20	20	20	22	20	20	20	20	14	8
CROP WATER REQT.	3	0	0	0	0	0	0	0	0	42	69	104	88	90	91	74	74	74	72	72	61	30	11	44	72	94	86	75	70	77	59	59	59	55	40	22
EFF. RAINFALL	3	0	0	0	0	0	0	0	0	10	20	51	62	69	24	54	10	34	53	7	22	5	2	20	15	17	39	27	59	77	49	46	59	55	36	22
CROP IRRG. REQT.	0	0	0	0	0	0	0	0	0	32	49	53	25	21	68	20	64	40	20	65	39	25	9	24	57	77	47	48	11	0	10	12	0	0	5	0
OVERALL EFF.	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	0	0	0	0	0	0	0	0	0	72	110	118	56	46	150	45	143	89	43	144	87	56	20	44	104	141	86	87	20	0	18	23	0	0	7	0
W*DUTY (L/S/H)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.27	1.36	0.65	0.54	1.58	0.53	1.66	1.04	0.50	1.67	0.91	0.65	0.23	0.46	1.21	1.63	0.99	1.01	0.23	0.00	0.21	0.26	0.00	0.00	0.10	0.00
																				vvvv																

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project FLORIDABLANCA, PAMPANGA (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm



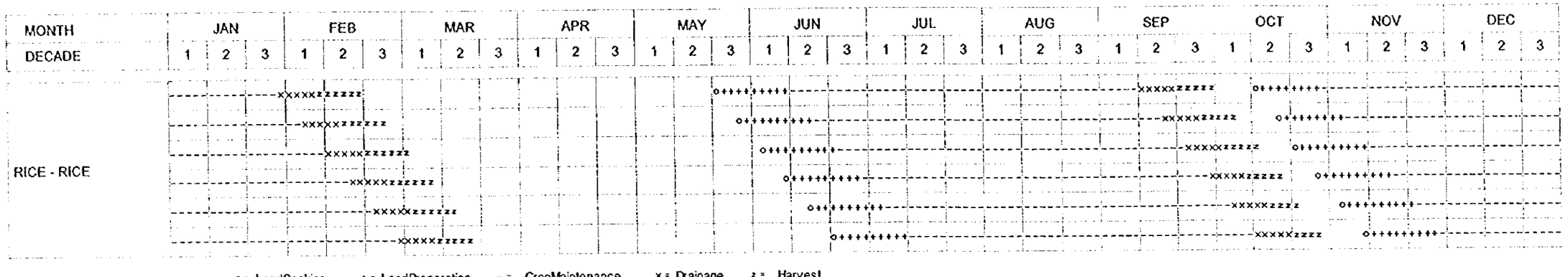
RAINFALL DATA	1	0	0	0	0	0	0	0	0	0	3	4	2	12	42	18	19	22	35	31	34	45	65	23	11	37	25	9	7	6	3	5	2	0	1	2
EVAP. DATA	49	49	54	60	60	48	69	69	76	72	72	72	58	58	64	43	43	43	37	37	41	32	32	35	35	35	35	40	40	44	42	42	42	45	45	50
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EVAP / TRANS	48	44	31	14	1	0	0	0	0	0	0	0	0	0	15	25	40	45	40	41	45	35	35	39	37	27	14	3	4	12	20	26	30	38	43	49
DEEP PERCOLATION	20	19	14	6	0	0	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	68	63	45	20	1	0	0	0	0	0	0	0	0	0	48	60	86	73	68	61	67	55	55	61	57	42	22	5	9	26	39	46	50	58	63	71
EFF. RAINFALL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	17	13	19	55	35	31	34	45	55	23	11	29	12	2	3	5	3	5	2	0	1	2
CROP IRRG. REQT.	67	63	45	20	1	0	0	0	0	0	0	0	0	0	32	47	67	51	33	30	33	10	0	38	46	13	10	3	6	22	36	41	48	58	62	69
OVERALL EFF.	55	55	55	55	55	0	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	122	114	82	37	3	0	0	0	0	0	0	0	0	0	70	105	150	112	73	66	73	23	0	85	102	29	23	5	12	39	66	75	88	105	112	126
W'DUTY (L/S/H)	1.41	1.32	0.86	0.42	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	1.22	1.74 vvvv	1.30	0.85	0.77	0.77	0.27	0.00	0.89	1.18	0.34	0.27	0.06	0.13	0.41	0.76	0.86	1.01	1.22	1.29	1.33

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project GUIMARAS PROJ. (RAINFALL STA.= ILOILO ; EVAP. STA.= POTOTAN)

UNITS : mm



RAINFALL DATA	3	2	2	1	1	1	2	2	2	1	2	4	2	6	9	24	43	49	47	42	35	44	44	38	28	35	27	35	31	15	25	11	14	12	4	6
EVAP. DATA	48	48	53	55	55	44	67	67	74	71	71	71	59	59	65	55	55	55	49	49	54	49	49	54	47	47	47	46	46	50	45	45	45	45	45	50
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	53	53	55	39	19	2	0	0	0	0	0	0	0	0	0	15	32	52	58	54	54	60	54	54	59	51	37	20	4	13	32	44	48	49	50	50	55
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	73	73	76	52	26	2	0	0	0	0	0	0	0	0	0	49	67	98	86	81	74	82	74	74	81	70	52	27	13	39	77	87	75	74	70	70	77
EFF. RAINFALL	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	3	17	43	49	47	42	35	44	44	38	28	28	13	8	12	12	25	11	14	12	4	6
CROP IRRG. REQT.	69	71	74	52	25	2	0	0	0	0	0	0	0	0	0	45	50	55	37	34	33	47	30	30	43	42	24	14	5	27	65	62	65	60	58	66	71
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	126	129	134	94	46	4	0	0	0	0	0	0	0	0	0	100	111	123	81	75	73	104	67	66	95	94	53	32	9	49	118	113	118	110	105	120	128
W'DUTY (L/S/H)	1.46	1.49 vvvv	1.41	1.09	0.53	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.29	1.42	0.94	0.87	0.84	1.10	0.78	0.76	1.00	1.08	0.61	0.37	0.10	0.57	1.24	1.31	1.36	1.27	1.22	1.39	1.35

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project IFUGAO (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

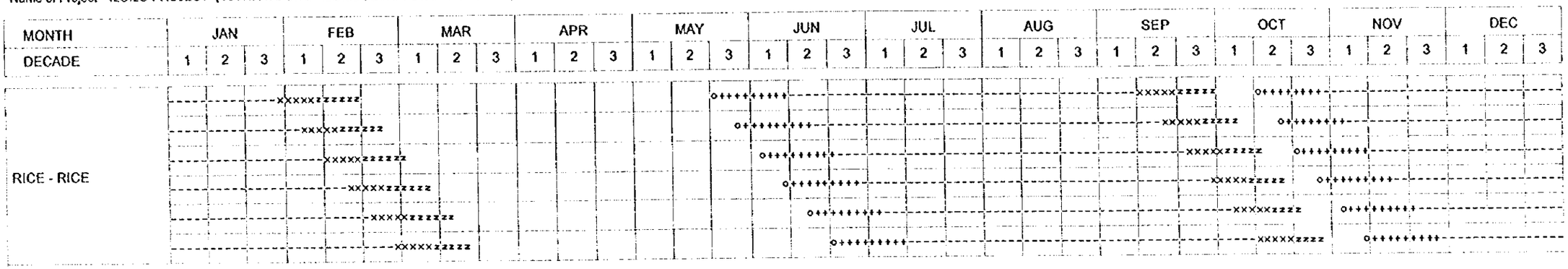
RAINFALL DATA	17	17	17	7	7	7	8	8	8	7	7	7	32	32	32	52	52	52	63	63	63	61	61	61	47	47	47	67	67	67	32	32	32	22	22	22
EVAP. DATA	60	60	66	73	73	58	81	81	89	86	86	86	74	74	82	49	49	49	45	45	49	43	43	48	40	40	40	46	46	50	47	47	47	51	51	56
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	14	28	29	15	8	3	0	0	0	0	0	0	0	0	21	21	36	10	8	0	0	0	0
EVAP / TRANS	66	66	58	36	10	0	0	0	0	0	0	0	0	7	36	39	51	53	49	49	54	48	48	52	37	23	8	7	22	43	49	51	52	56	56	62
DEEP PERCOLATION	20	20	18	9	2	0	0	0	0	0	0	0	0	2	10	16	20	20	20	20	22	20	20	22	17	10	4	3	10	18	20	20	20	20	20	22
CROP WATER REQT.	86	86	76	45	12	0	0	0	0	0	0	0	0	22	73	83	86	80	72	69	76	68	68	74	54	33	12	31	53	97	79	78	72	76	76	84
EFF. RAINFALL	17	17	16	4	2	0	0	0	0	0	0	0	0	6	19	46	52	52	60	60	60	59	59	59	42	26	10	19	38	64	32	32	32	22	22	22
CROP IRRG. REQT.	69	69	60	41	10	0	0	0	0	0	0	0	0	16	54	36	34	29	11	9	16	9	9	16	12	7	1	12	14	33	47	46	40	54	54	62
OVERALL EFF.	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	125	125	108	74	18	0	0	0	0	0	0	0	0	36	120	81	75	64	25	20	35	19	19	34	27	15	2	21	26	60	86	84	72	98	98	112
W'DUTY (L/S/H)	1.45 vvvv	1.45	1.14	0.86	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.26	0.93	0.87	0.73	0.29	0.23	0.37	0.23	0.23	0.36	0.32	0.17	0.03	0.25	0.30	0.63	0.99	0.98	0.84	1.14	1.14	1.18

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project ILOILO PROJECT (RAINFALL STA.= ILOILO ; EVAP. STA.= POTOTAN)

UNITS : mm



RAINFALL DATA	3	2	2	1	1	1	2	2	2	1	2	4	2	6	9	24	43	49	47	42	35	44	44	38	28	35	27	35	31	15	25	11	14	12	4	6
EVAP. DATA	48	48	53	55	55	44	67	67	74	71	71	71	59	59	65	55	55	55	49	49	54	49	49	54	47	47	47	46	46	50	45	45	45	45	45	50
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	53	53	55	39	19	2	0	0	0	0	0	0	0	0	0	15	32	52	58	54	54	60	54	54	59	51	37	20	4	13	32	44	48	49	50	50	55
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	73	73	76	52	26	2	0	0	0	0	0	0	0	0	0	49	67	98	86	81	74	82	74	74	81	70	52	27	13	39	77	87	75	74	70	70	77
EFF. RAINFALL	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	3	17	43	49	47	42	35	44	44	38	28	28	13	8	12	12	25	11	14	12	4	6
CROP IRRG. REQT.	69	71	74	52	25	2	0	0	0	0	0	0	0	0	0	45	50	55	37	34	33	47	30	30	43	42	24	14	5	27	65	62	65	60	58	66	71
OVERALL EFF.	55	55	55	55	55	55	0	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	126	129	134	94	46	4	0	0	0	0	0	0	0	0	0	100	111	123	81	75	73	104	67	66	95	94	53	32	9	49	118	113	118	110	105	120	128
W*DUTY (L/S/H)	1.46	1.49 vvvv	1.41	1.09	0.53	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.29	1.42	0.94	0.87	0.84	1.10	0.78	0.76	1.00	1.08	0.61	0.37	0.10	0.57	1.24	1.31	1.36	1.27	1.22	1.39	1.35

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project LAGUNA PROJ. (RAINFALL STA.= STA. CRUZ ; EVAP. STA.= LOS BANOS)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

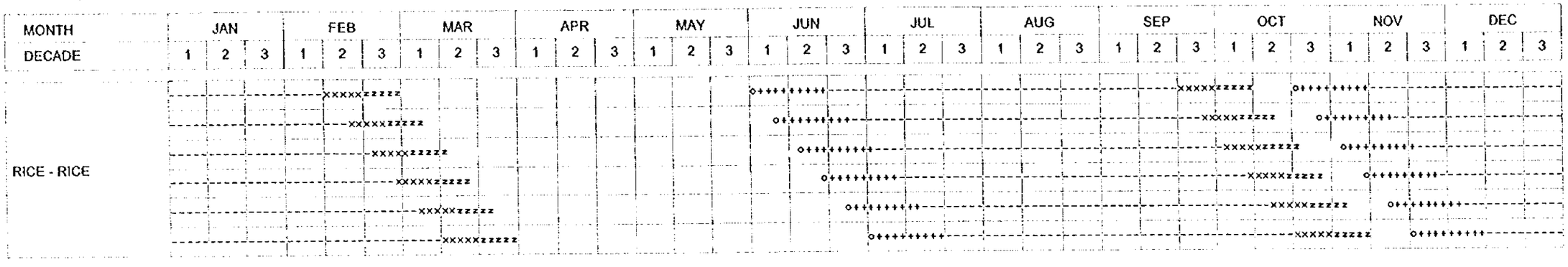
RAINFALL DATA	4	4	5	2	2	1	3	3	3	2	2	2	20	20	22	46	46	46	58	58	64	50	50	55	53	53	53	42	42	48	40	40	40	13	13	15
EVAP. DATA	41	41	45	54	54	43	66	66	72	76	76	76	65	65	72	51	51	51	44	44	48	43	43	47	40	40	40	41	41	45	36	36	36	35	35	39
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	44	31	17	2	0	0	0	0	0	0	0	0	14	36	65	54	55	56	48	48	53	47	47	38	17	4	11	26	39	48	39	39	39	39	39	43
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	63	44	24	2	0	0	0	0	0	0	0	0	43	71	116	81	83	76	68	68	75	67	67	55	24	13	38	65	83	80	64	59	59	59	59	65
EFF. RAINFALL	4	4	2	0	0	0	0	0	0	0	0	0	8	14	22	46	46	46	57	57	61	50	50	43	22	10	21	34	42	48	40	40	40	13	13	15
CROP IRRG. REQT.	59	41	22	2	0	0	0	0	0	0	0	0	35	57	94	35	37	30	12	12	14	17	16	12	3	3	17	31	41	32	24	19	19	46	46	50
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	107	74	39	4	0	0	0	0	0	0	0	0	78	127	208	78	82	66	26	26	31	38	36	26	6	5	31	57	74	58	44	35	35	84	84	91
W'DUTY (L/S/H)	1.23	0.86	0.41	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	1.47	2.19 vvvv	0.90	0.95	0.77	0.30	0.30	0.32	0.44	0.42	0.28	0.07	0.06	0.36	0.66	0.86	0.61	0.51	0.41	0.41	0.97	0.97	0.96

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project LANAO DEL NORTE (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

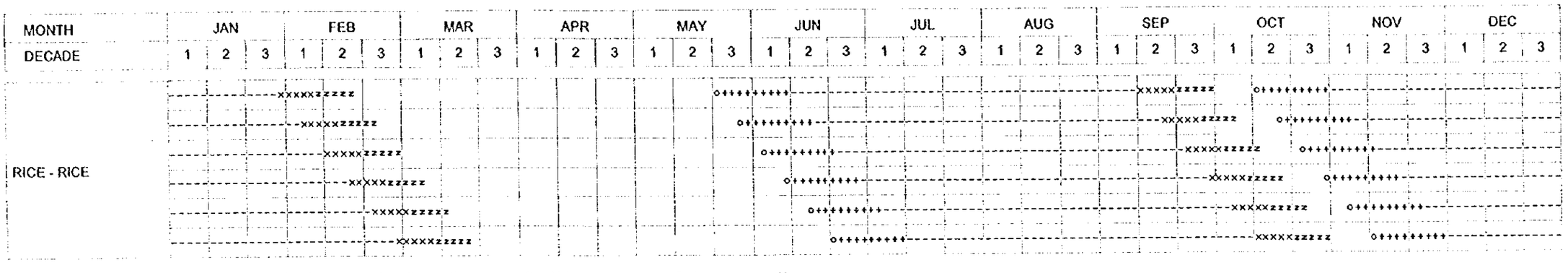
RAINFALL DATA	8	8	8	5	5	5	4	4	4	0	0	0	6	6	6	19	19	19	14	14	14	12	12	12	29	29	29	26	26	26	13	13	13	7	7	7
EVAP. DATA	50	50	55	54	54	43	55	55	60	58	58	58	53	53	58	50	50	50	45	45	50	49	49	54	50	50	50	48	48	53	48	48	48	45	45	49
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	4	25	27	25	10	5	0	0
EVAP / TRANS	55	55	61	58	40	18	5	0	0	0	0	0	0	0	0	11	28	45	48	49	55	54	54	59	55	54	41	22	5	14	30	46	51	49	49	54
DEEP PERCOLATION	20	20	22	19	14	6	2	0	0	0	0	0	0	0	0	4	11	18	20	20	22	20	20	22	20	20	15	8	2	6	12	19	20	20	20	22
CROP WATER REQT.	75	75	83	77	54	25	7	0	0	0	0	0	0	0	0	40	63	94	75	77	77	74	74	81	75	74	56	31	11	44	69	89	81	74	69	76
EFF. RAINFALL	8	8	8	5	4	3	1	0	0	0	0	0	0	0	0	8	13	19	14	14	14	12	12	12	29	29	25	14	7	10	10	13	13	7	7	7
CROP IRRG. REQT.	67	67	75	72	50	22	6	0	0	0	0	0	0	0	0	32	50	78	61	63	63	62	62	69	46	45	32	17	3	34	59	76	68	67	62	69
OVERALL EFF.	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55
DIVERSION REQT.	122	122	135	131	91	40	12	0	0	0	0	0	0	0	0	72	110	166	136	139	139	138	138	154	102	101	70	38	7	62	107	139	123	122	113	126
W'DUTY (L/S/H)	1.41	1.41	1.43	1.51	1.05	0.58	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.28	1.92 vvvv	1.57	1.61	1.46	1.59	1.59	1.62	1.18	1.16	0.81	0.43	0.09	0.65	1.24	1.61	1.43	1.41	1.31	1.32

NOTE : Rainfall data is for 80% probability of occurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project LANAO DEL SUR (RAINFALL STA.= TARAKA ; EVAP. STA.= MIT)

UNITS : mm



RAINFALL DATA	4	2	11	3	3	12	5	2	4	3	9	9	13	20	32	37	43	36	31	24	38	12	29	30	38	16	49	44	26	37	51	32	34	21	12	15
EVAP. DATA	64	64	70	69	69	55	72	72	79	80	80	80	76	76	84	67	67	67	62	62	68	68	68	75	66	66	66	66	66	72	65	65	65	63	63	70
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	24	29	8	8	0	0	0	0	0	0	0	0	7	21	31	24	8	5	0	0	0
EVAP / TRANS	70	70	74	49	24	2	0	0	0	0	0	0	0	0	20	39	62	71	68	68	75	75	75	83	72	53	28	6	18	46	64	69	71	70	70	77
DEEP PERCOLATION	20	20	21	13	6	1	0	0	0	0	0	0	0	0	5	12	18	20	20	20	22	20	20	22	20	14	8	2	6	14	19	20	20	20	20	22
CROP WATER REQT.	90	90	95	62	31	3	0	0	0	0	0	0	0	0	53	74	109	98	95	88	97	95	95	105	91	67	35	15	45	90	107	97	96	90	90	99
EFF. RAINFALL	4	2	11	2	2	1	0	0	0	0	0	0	0	0	13	26	43	36	31	24	38	12	29	30	38	14	22	11	10	30	51	32	34	21	12	15
CROP IRRG. REQT.	86	88	84	60	29	2	0	0	0	0	0	0	0	0	40	48	66	62	64	64	59	83	66	75	53	53	13	5	35	61	56	65	62	69	78	84
OVERALL EFF.	52	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	15	160	152	109	53	3	0	0	0	0	0	0	0	0	89	107	147	138	143	143	132	186	147	166	118	118	29	8	63	111	102	118	113	125	141	152
W*DUTY (L/S/H)	1.82	1.86	1.60	1.26	0.62	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	1.24	1.70	1.60	1.65	1.66	1.39	2.14 vvvv	1.70	1.74	1.37	1.37	0.33	0.09	0.73	1.16	1.18	1.36	1.31	1.44	1.63	1.60

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project MAGUINDANAO PROJ. (RAINFALL STA.= COTABATO CITY ; EVAP. STA.= MIT)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

RAINFALL DATA	5	8	10	12	3	6	11	5	3	5	15	19	32	22	74	35	22	30	38	26	54	64	32	68	41	39	26	23	31	28	35	24	27	11	10	6
EVAP. DATA	50	50	55	54	54	44	55	55	60	59	59	59	53	53	58	50	50	50	46	46	50	49	49	54	20	50	50	48	48	53	48	48	48	45	45	50
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	1	27	25	10	5	0	0	0	0	0
EVAP / TRANS	54	38	20	2	0	0	0	0	0	0	0	0	12	29	53	53	55	55	50	50	55	54	54	44	21	5	14	30	46	56	53	53	53	50	50	54
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	73	51	28	2	0	0	0	0	0	0	0	0	41	65	104	81	82	75	70	70	77	74	73	60	29	14	41	69	89	88	78	73	73	70	70	76
EFF. RAINFALL	5	6	5	1	0	0	0	0	0	0	0	0	13	16	69	35	22	30	38	26	53	61	32	50	18	9	10	18	31	28	35	24	27	11	10	6
CROP IRRG. REQT.	69	45	23	1	0	0	0	0	0	0	0	0	28	49	35	46	61	45	32	44	24	13	41	10	10	5	30	51	59	60	43	49	46	59	59	71
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	125	82	42	2	0	0	0	0	0	0	0	0	61	109	77	102	135	101	71	97	53	29	92	23	22	8	55	93	107	109	78	89	83	106	108	128
W*DUTY (L/S/H)	1.44	0.95	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	1.26	0.81	1.18	1.56 vvvv	1.17	0.82	1.13	0.56	0.33	1.06	0.24	0.26	0.10	0.64	1.07	1.23	1.14	0.90	1.03	0.97	1.23	1.25	1.35

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project MARINDUQUE PROJ. (RAINFALL STA.= BOAC ; EVAP. STA.= CALAPAN)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation – = CropMaintenance x = Drainage z = Harvest

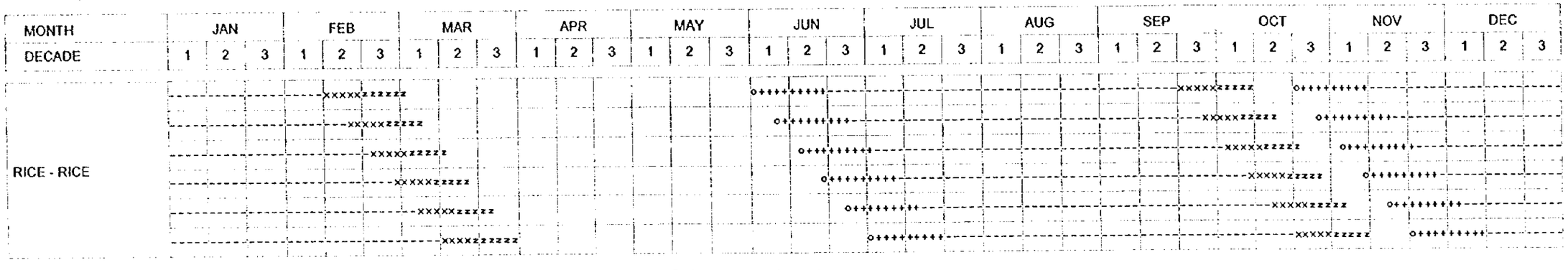
RAINFALL DATA	33	33	33	16	16	13	13	13	14	9	9	9	23	23	25	60	60	63	40	40	44	22	22	25	36	36	36	67	67	73	71	71	71	40	40	44
EVAP. DATA	33	33	37	34	34	27	39	39	43	42	42	42	39	39	42	43	43	43	40	40	44	41	41	45	38	38	38	41	41	45	34	34	34	33	33	37
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	36	25	14	1	0	0	0	0	0	0	0	0	8	21	39	45	47	47	44	44	49	45	45	37	16	4	11	25	39	48	37	37	37	37	37	41
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	55	39	21	2	0	0	0	0	0	0	0	0	37	57	89	73	74	67	64	64	71	65	65	53	24	13	37	65	83	80	62	57	57	57	57	63
EFF. RAINFALL	33	25	14	2	0	0	0	0	0	0	0	0	9	16	24	58	58	60	40	40	44	22	22	22	16	8	15	48	63	68	59	57	57	40	40	44
CROP IRRG. REQT.	22	14	7	0	0	0	0	0	0	0	0	0	28	41	64	15	17	7	24	24	27	43	43	31	7	5	23	17	20	11	3	0	0	17	17	19
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	40	25	13	0	0	0	0	0	0	0	0	0	63	90	142	34	37	15	53	53	60	97	95	69	16	8	41	31	37	21	5	0	0	31	31	34
W'DUTY (L/S/H)	0.47	0.29	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	1.04	1.49 vvvv	0.39	0.42	0.17	0.62	0.62	0.63	1.12	1.10	0.73	0.19	0.10	0.48	0.36	0.42	0.22	0.06	0.00	0.00	0.36	0.36	0.36

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project MASBATE PROJ. (RAINFALL STA = PALANAS ; EVAP. STA = NAGA)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

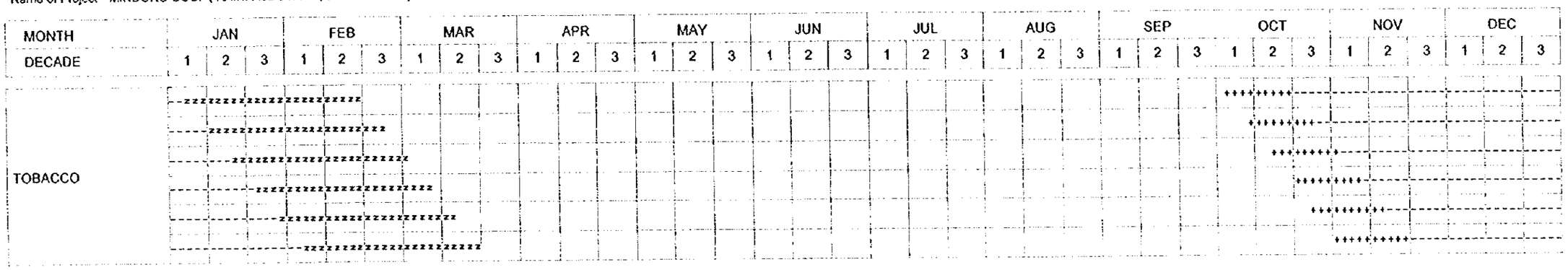
RAINFALL DATA	20	20	22	9	9	8	6	6	6	2	2	2	5	5	6	28	28	28	39	39	43	40	40	44	42	42	42	31	31	34	49	49	49	32	32	35
EVAP. DATA	45	45	49	48	48	38	51	51	56	59	59	59	56	56	62	51	51	51	44	44	48	43	43	47	41	41	41	37	37	40	41	41	41	40	40	44
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	4	25	27	25	10	5	0	0
EVAP / TRANS	49	49	54	51	36	16	5	0	0	0	0	0	0	0	0	11	28	46	46	47	53	47	47	52	45	44	34	17	4	11	26	40	44	43	44	48
DEEP PERCOLATION	20	20	22	19	14	6	2	0	0	0	0	0	0	0	0	4	11	18	20	20	22	20	20	22	20	20	15	8	2	6	12	19	20	20	20	22
CROP WATER REQT.	69	69	76	70	49	22	7	0	0	0	0	0	0	0	0	40	64	94	73	75	75	67	67	74	65	64	49	25	9	41	65	83	74	68	64	70
EFF. RAINFALL	20	20	22	9	7	4	1	0	0	0	0	0	0	0	0	11	19	28	39	39	43	40	40	44	42	42	34	15	8	14	38	49	49	32	32	35
CROP IRRG. REQT.	49	49	54	61	42	19	6	0	0	0	0	0	0	0	0	29	44	67	34	36	32	27	27	30	23	23	15	10	2	27	27	34	25	36	32	35
OVERALL EFF.	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55
DIVERSION REQT.	90	90	99	111	76	34	10	0	0	0	0	0	0	0	0	64	98	148	76	80	71	61	61	67	52	50	33	22	3	50	49	63	46	66	57	63
W*DUTY (L/S/H)	1.04	1.04	1.04	1.28	0.88	0.49	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.13	1.71 vvvv	0.89	0.92	0.75	0.70	0.70	0.70	0.60	0.58	0.38	0.26	0.04	0.52	0.57	0.73	0.53	0.76	0.66	0.66

NOTE : Rainfall data is for 80% probability of occurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project MINDORO OCC. (RAINFALL STA.= ; EVAP. STA.=)

UNITS : mm



o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

RAINFALL DATA	0	0	0	0	0	0	0	0	0	1	1	1	13	13	14	40	40	40	82	82	90	117	104	114	65	65	65	19	19	20	9	9	9	1	1	2
EVAP. DATA	60	60	66	82	82	66	89	89	98	92	92	92	73	73	81	54	54	54	51	51	56	57	57	63	47	47	47	56	56	61	59	59	59	67	67	74
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EVAP / TRANS	66	40	18	12	12	7	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	20	28	40	69	87	104
DEEP PERCOLATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CROP WATER REQT.	66	40	18	12	12	7	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	20	28	40	69	87	104
EFF. RAINFALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	9	9	9	1	1	2
CROP IRRG. REQT.	66	39	18	12	12	7	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	18	30	68	86	102
OVERALL EFF.	55	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	120	71	33	22	21	12	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	33	55	123	156	186
W'DUTY (L/S/H)	1.39	0.83	0.35	0.25	0.25	0.18	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.38	0.64	1.42	1.80	1.96 vvvv

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project MINDORO ORIENTAL PROJ. (RAINFALL STA.= CALAPAN ; EVAP. STA.= BATINO)

UNITS : mm

MONTH	JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			NOV			DEC		
DECADE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
RICE - RICE																																				

o = LandSoaking + = LandPreparation - = CropMaintenance x = Drainage z = Harvest

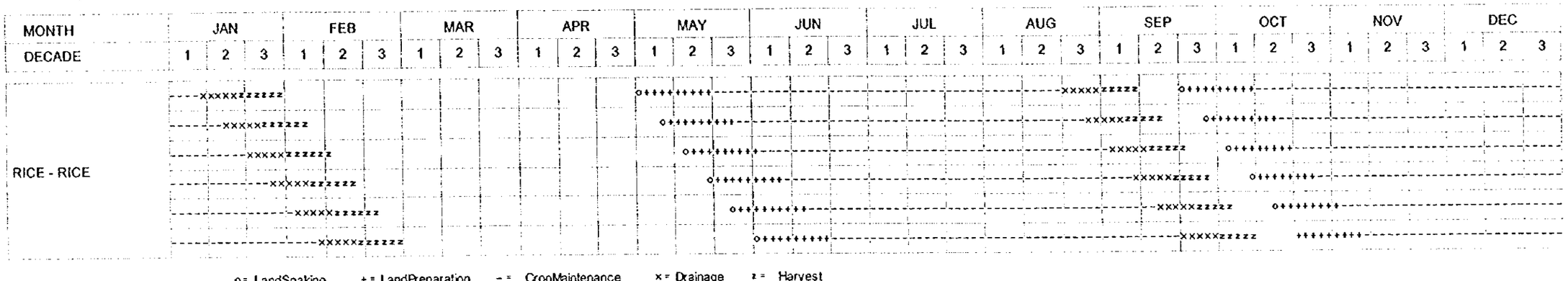
RAINFALL DATA	18	18	19	8	8	7	5	5	6	10	10	10	20	20	21	34	37	37	33	33	37	30	30	33	26	26	26	50	50	56	38	35	33	26	26	29
EVAP. DATA	33	33	37	34	34	27	39	39	43	42	42	42	39	39	42	43	43	43	40	40	44	41	41	45	38	38	38	41	41	45	34	34	34	33	33	37
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	36	25	14	1	0	0	0	0	0	0	0	0	8	21	39	45	47	47	44	44	49	45	45	37	16	4	11	25	39	48	37	37	37	37	37	41
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	55	39	21	2	0	0	0	0	0	0	0	0	37	57	89	73	74	67	64	64	71	65	65	53	24	13	37	65	83	80	62	57	57	57	57	63
EFF. RAINFALL	18	14	9	1	0	0	0	0	0	0	0	0	8	14	21	34	37	37	33	33	37	30	30	28	12	6	10	39	50	55	38	35	33	26	26	29
CROP IRRG. REQT.	37	25	12	1	0	0	0	0	0	0	0	0	29	42	68	38	37	30	31	31	34	35	35	25	11	6	27	26	33	25	23	22	24	31	31	33
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	68	45	22	2	0	0	0	0	0	0	0	0	65	94	152	86	83	67	69	69	76	79	77	56	25	11	49	47	59	45	42	40	43	56	56	61
W'DUTY (L/S/H)	0.79	0.52	0.23	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.09	1.60	0.99	0.96	0.78	0.80	0.80	0.80	0.91	0.89	0.59	0.29	0.13	0.57	0.54	0.69	0.47	0.49	0.46	0.50	0.64	0.64	0.64
															vvvv																					

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL

Name of Project MISAMIS OCCIDENTAL (RAINFALL STA.= CLARIN ; EVAP. STA.= STA. JOSEFA)

UNITS : mm



RAINFALL DATA	34	16	21	9	18	3	20	4	2	1	6	3	11	6	9	9	31	18	34	5	37	7	29	17	9	22	24	16	23	45	33	109	43	40	51	29
EVAP. DATA	42	42	46	33	33	26	39	39	43	38	38	38	43	43	47	38	38	38	36	36	40	37	37	40	36	36	36	35	35	39	32	32	32	33	33	36
LAND SOAK / FLOOD	0	0	0	0	0	0	0	0	0	0	0	0	25	25	31	8	8	0	0	0	0	0	0	0	0	7	21	27	25	10	5	0	0	0	0	0
EVAP / TRANS	45	31	17	1	0	0	0	0	0	0	0	0	9	24	43	40	42	42	40	40	44	40	40	33	15	3	10	22	34	41	35	35	35	36	36	40
DEEP PERCOLATION	19	14	7	1	0	0	0	0	0	0	0	0	4	11	20	20	20	20	20	20	22	20	20	16	8	2	6	12	19	22	20	20	20	20	20	22
CROP WATER REQT.	64	45	24	2	0	0	0	0	0	0	0	0	38	59	94	68	69	62	60	60	66	60	60	49	22	12	37	61	77	73	60	55	55	56	56	62
EFF. RAINFALL	34	13	10	1	0	0	0	0	0	0	0	0	4	4	9	9	31	18	34	5	37	7	29	15	5	6	10	13	23	45	33	55	43	40	50	29
CROP IRRG. REQT.	30	32	15	1	0	0	0	0	0	0	0	0	34	55	85	59	38	44	26	55	29	53	30	34	18	7	27	48	54	28	26	0	12	16	6	32
OVERALL EFF.	55	55	55	55	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	55	55	55	55	55	55	55	55	55	55	55
DIVERSION REQT.	54	58	27	1	0	0	0	0	0	0	0	0	76	123	188	86	86	98	57	122	64	118	68	76	40	12	49	88	98	52	48	0	22	30	10	59
W'DUTY (L/S/H)	0.62	0.67	0.28	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	1.42	1.98	0.99	0.99	1.13	0.66	1.41	0.67	1.37	0.78	0.80	0.46	0.14	0.57	1.01	1.14	0.54	0.55	0.00	0.25	0.35	0.12	0.62
															vvvv																					

NOTE : Rainfall data is for 80% probability of accurrence or 4 out of 5 years.

vvvv = CRITICAL