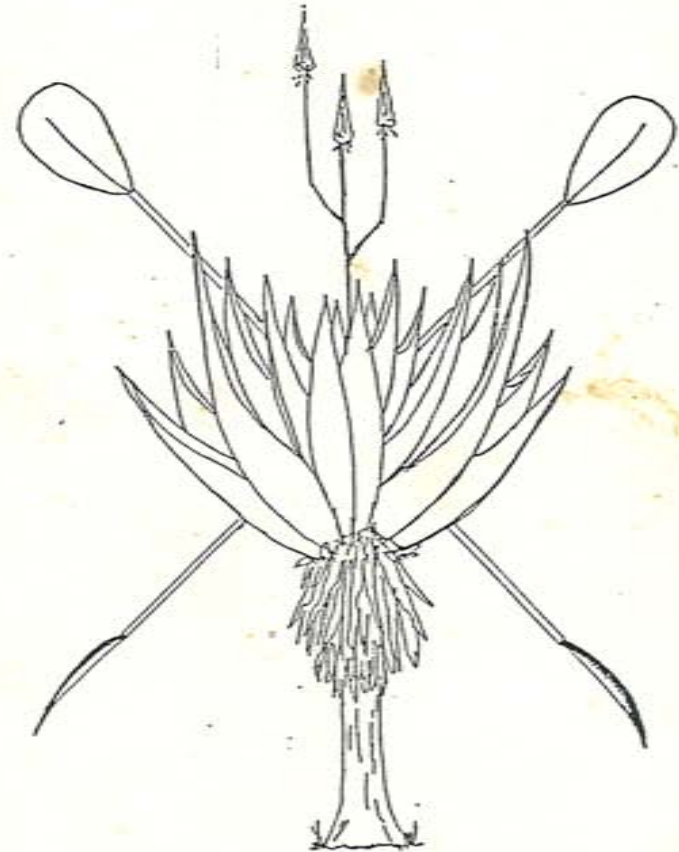


# NEWSLETTER

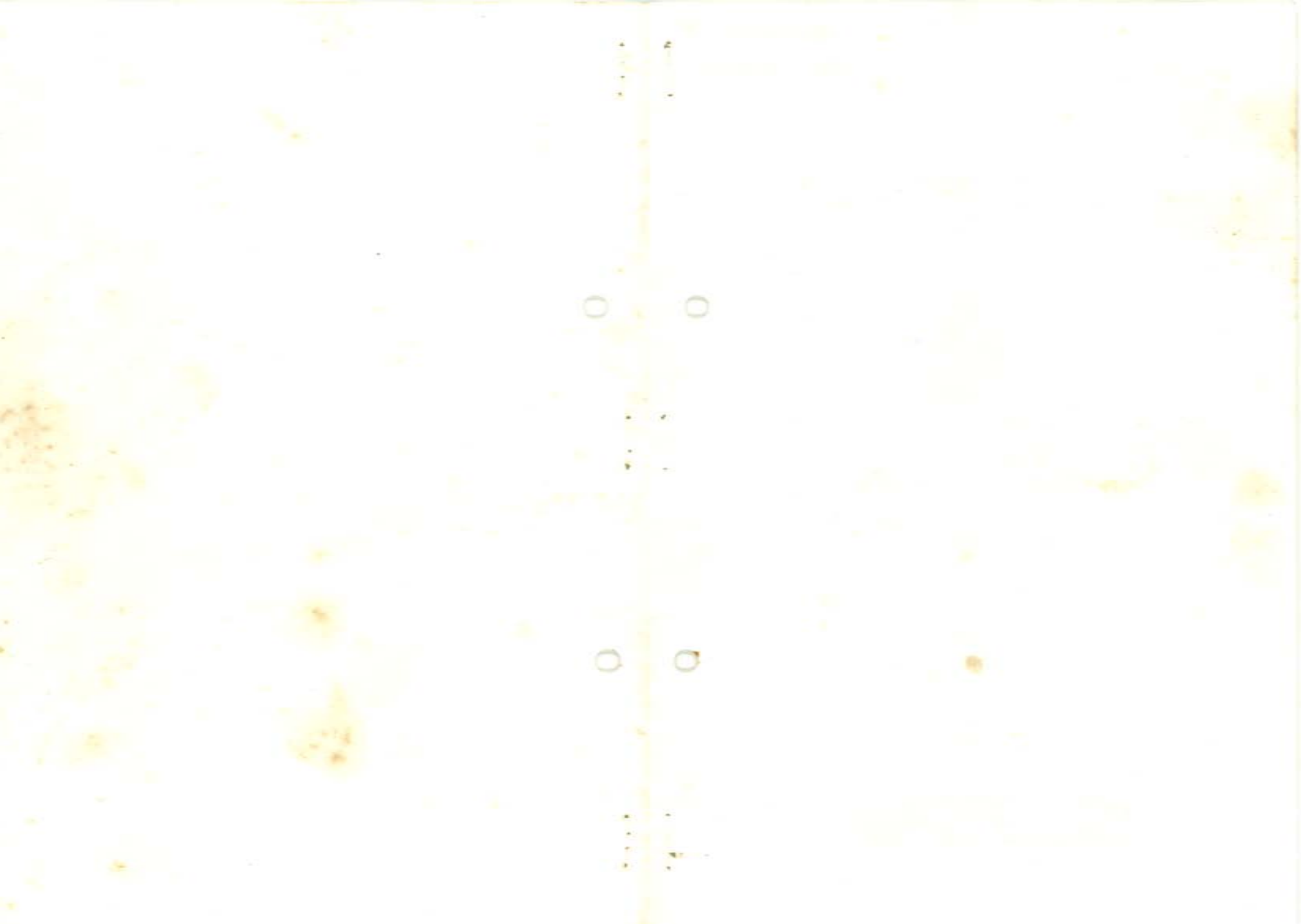
BORDER



CANOE CLUB

NOVEMBER 1988

FIFTH EDITION



*Olea woodiana* Knobl.  
Bosolienhout

Die bosolienhout is 'n klein tot middelmatige groot boom wat meestal 10 m hoog word, maar soms tot 20 m hoog groei. Dié boom kom in immergroen woude, struikwoude en kusbosse van Oos-Kaapland, Natal en Oos-Transvaal voor.

Die bas van die bosolien is glad en vaalgrys, terwyl die hout lig- tot donkerbruin is. Die hout is baie hard en baie swaar en is al as "staalagtig" beskryf.

Die blare is reghoekig en ellipties en is 40 tot 80 mm by 10 tot 30 mm. Hulle is kortgesteel en is donkergroen aan die bokant en liggroen aan die onderkant.

Wit blomme van ongeveer 5 mm lank word in los oksels of terminale koppe gedra en lyk soos dié van die ander ysterhoutsoorte.

Soos die ander *Olea*-spesies, het *Olea woodiana* ook ovaalvormige vruggies. Dit het 'n dun lagie vleis, is 10 mm en 5 mm in deursnee en is groengeel wanneer volwasse.

Die bosolienhout word normaalweg nie vir aanplanting gekweek nie maar behoort meer aandag te kry.

Bronne: *Olea*-spesies, Boom van die Jaar 1988 — C J Esterhuysen, C Dyer; *Trees of Southern Africa* — Keith Coates Palgrave, Struik, Kaapstad, 1984.

*Olea woodiana* Knobl.  
Forest olive

The forest olive is a small to medium-sized tree of up to 10 m in height, but which occasionally reach a height of 20 m. It occurs in the evergreen forests, woodlands and coastal bushes of the Eastern Cape, Natal and the Eastern Transvaal.

The bark of the forest olive is smooth and pale grey, while the wood is light to dark brown. The wood is very hard and heavy and has been described as "steel-like".

The leaves are opposite and elliptic, with measurements of 40 mm to 80 mm by 10 mm to 30 mm. They have short petioles, and are dark green on the upper surface and light green on the under surface.

White flowers of approximately 5 mm grow in loose axillary or terminal heads and are similar to those of the other ironwood species.

As is the case with the other *Olea*-species, *Olea woodiana* also bears ovoid fruit. It is thinly fleshy, about 10 mm long and 5 mm in diameter and is greenish-yellow when mature.

The forest olive is not usually propagated for planting but should be given more attention.

Sources: *Olea* species, Tree of the Year 1988 — C J Esterhuysen, C Dyer; *Trees of Southern Africa* — Keith Coates Palgrave, Struik Publishers, Cape Town, 1984.



Conserva

August 1988

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Fellow Canoeists

Sorry about last months edition that never even got off the press. I had quite a bit going on at work and quite frankly I didn't have any time to do any work on the newsletter.

Our membership to date stands at 41 members and I have had quite a number of queries about Border Canoe Club.

Once again I make an appeal to club members to contribute something for publication in the newsletter.

I had a great opportunity last month to attend the Administration Conference at Midmar Dam held by the S.A.C.F. and we got to know the various delegates from other canoe clubs and provinces.

They are all rather excited that canoeing has got off the ground in the East London area and a lot of guys expressed interest in the Kei River Marathon.

Yours in canoeing

DON LANDY

EASTERN PROVINCE CANOE UNION  
PROVISIONAL RACE CALENDAR 1989

DATE	EVENT	VENUE	OFFICIALS
JULY Sat 1	?? LOWER FISH K1		EPDU
Wed 12			
Thurs 13			
Fri 14	BERG RIVER MARATHON 220km		WPCU Miss E. Ferreira
Sat 15			
Sat 15			
Sat 22	?? KWABE RIVER		EOMCU Ian Walland
Sat 29			
AUGUST Sun 6	** E.P.K1 CHAMPS Little Fish <i>Seton for selling</i>		FRCC Andre Rabie
Sat 13			
Sat 19	HALSOMEN-MORTIMER Fish River K1 & K2		FRCC Andre Rabie
Sat 26	MIXED ENDURO		BCC
SEPTEMBER Fri 1	BREEDER RIVER MAR. 92km		BRCC Deon Krige 0231-72674(M)
Sat 2			
Sat 9	E.P.K2 TRIALS Murray to Baroda Fish River		FRCC Andre Rabie
Sun 17	DAM TO KNUTSFORT Fish River K2		FRCC Andre Rabie
Sat 23	?? E.P.K4 TRIALS		
Fri 29	** ISUZU S.A.K2 CHAMPS		
Sat 30	FISH RIVER MARATHON		FRCC Margaret Collett
OCTOBER Sat 7	?? S.A.K4 CHAMPIONSHIPS		
NOVEMBER Sat 4			
KEY: ** Provincial Log Events - best 4 out of 5 to count ?? Unsure of race or dates EPCU AGM			
TIME TRIMLS: Border Canoe Club - Nahoon River times? dates from/to? East Cape Waters - Sharkops River times? dates from/to? Fish River ? Saasveld ? Rhodes ?			

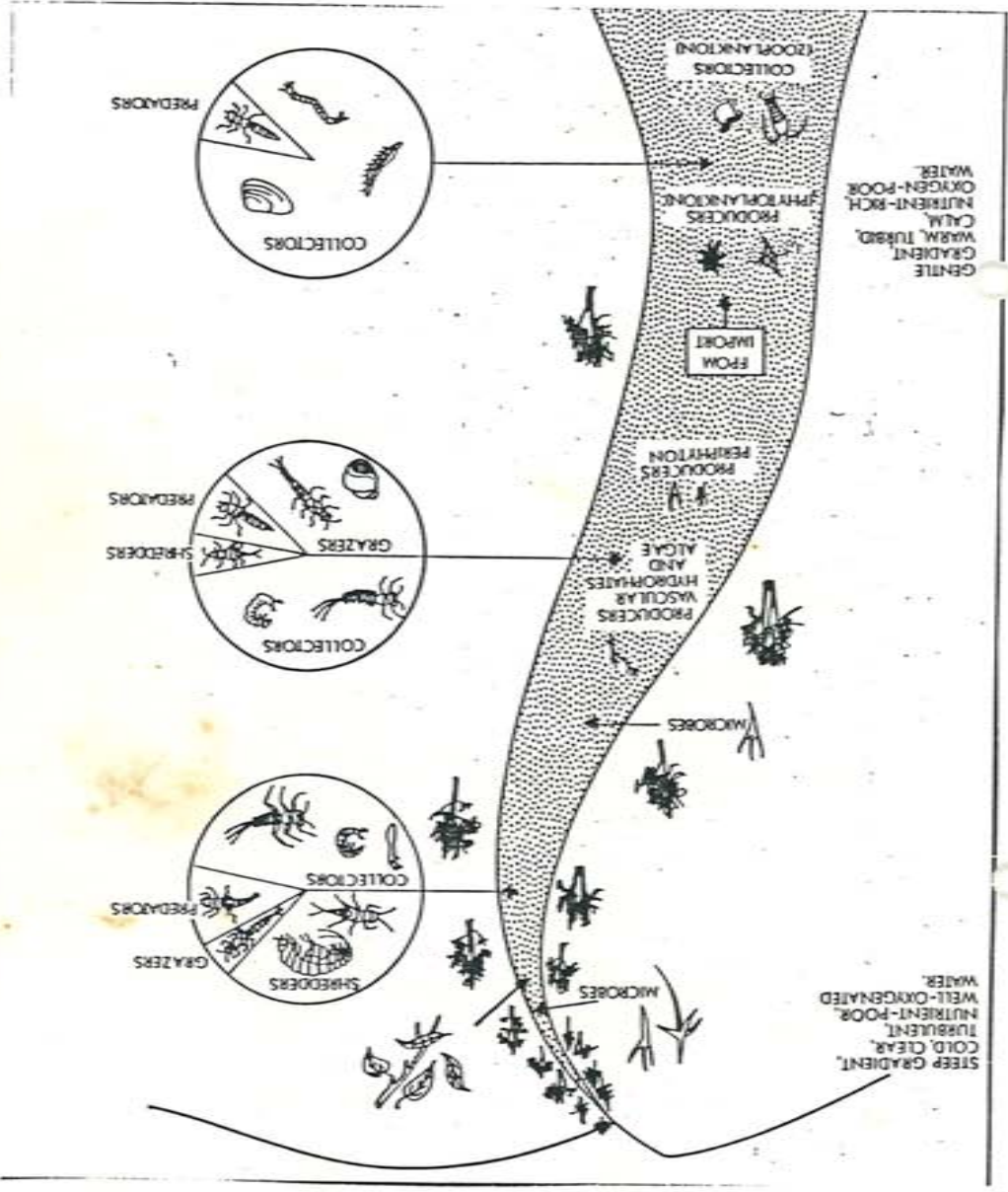
EASTERN PROVINCE CANOE UNION  
PROVISIONAL RACE CALENDAR 1989

DATE	TIME	RACE & VENUE	DIST	ORG. CLUB	INFO
<b>JANUARY</b>					
Thurs	19	HANSA DUZI MARATHON			H. van Aardenne
Fri	20 07h00	P.M. Burg to Durban	120km	NCC	0331-961374 (h)
Sat	21	Uzinduzi & Ugeni			P0B0x1966 (20/12/88)
Sat	28	** E.P. K1 TRIALS Kei River		BCC	Don Landy
<b>FEBRUARY</b>					
Sat	4	KEI RIVER MARATHON	80km	BCC	Don Landy
Sun	5				
Sat	12	<i>Cancelled see March</i>		<i>E. van Nyk</i>	
Sat	18 10h00	S.A. K1 CHAMPS. Trout Hatcheries to Waterhead Uzinkulu	42km	NCU	The secretary NCU 290 Bulwer Street PMBurg 3201 (2/2/89)
Sat	25	TUGELA MARATHON			E. van Nyk 752184
Sun	26 10h00	Middeldrift to Mandini	80km	DCC	17 Angus Drive Hillcrest (25/2/89)
<b>MARCH</b>					
Sat	11 09h00	UMKOMAAS MARATHON	130km	KCC	A. Peter 258471
Sun	12	Umkomaas River			P0B0x36NewGer (15/2)
Fri	24	S.A. MW/SLALOM		NCU	
Sat	25				
<b>APRIL</b>					
Sat	15	SPRINTS Club Heats		Clubs	Club Chairman
Sun	16				
Sat	22	** E.P. SPRINTS Buffalo River E.L.		BCC	Don Landy
<b>MAY</b>					
Fri	5	S.A. SPRINT CHAMPS			
Sat	6				
Sun	7	S.A.C.F. - A.G.M.			
Sun	15	<i>Blanche Bay/Blanche Bay</i>		<i>E. van Nyk</i>	
<b>JUNE</b>					
Sat	3	RIVER CONS. DAY		Clubs	Club Chairman
Sun	18 (or Mar 21)**	KARIEGA RIVER K1		RCC	
Sat	24	?? LOMER FISH K1		EPCU	



The first ever K4 team to represent Border Canoe Club at Midmar Dam in the S.A. K4 Championships and the S.A. K4 interclub events.

From left to right: Gareth Peddie, Derek Grove, Hennie Roos and Andries Smit.



POS. Reg NAME/S S.A K4 CHAMPS 88 TOTAL

1	910	NORTHERN TVL A	2:29:40.08
2	909	WESTERN PROVINCE	2:29:53.59
3	908	TRANSVAL SEN B	2:30:29.46
4	911	NORTHERN TVL B	2:31:23.01
5	907	TRANSVAL SEN A	2:35:29.99
6	906	EASTERN PROVINCE (B.C.)	2:36:25.82
7	901	NATAL SENIOR B	2:39:12.57
8	925	TRANSVAL JUN A	2:44:43.28
9	921	NATAL JUN B	2:46:14.51
10	915	NATAL VET A	2:47:31.69
11	916	TRANSVAL VET	2:50:45.90
12	917	NATAL VET B	2:50:56.61
13	920	NATAL JUN A	2:52:24.77
14	926	TRANSVAL JUN B	2:55:23.38
15	922	NATAL JUN C	3:07:12.47
16	918	TRANSVAL MASTERS	3:11:23.40
17	923	NATAL JUN D	3:12:24.23
18	919	NATAL MASTERS	3:15:22.07
19	930	TRANSVAL LADIES	3:18:41.09
TOTAL			

POS. Reg NAME/S S.A INTERCLUB K4 88 CLUB/S TOTAL

1	959	DABULAMANZI A	1:42:17.20
2	949	MITS UNIVERSITY A	1:42:17.91
3	943	NUCC PMBURG A	1:42:40.82
4	948	N TVL DEFENCE B	1:43:14.27
5	954	VICTORIA LAKE A	1:47:35.38
6	942	BORDER CANOE CLUB	1:48:01.14
7	958	NATAL CANOE CLUB	1:49:31.1
8	940	STELLA A	1:49:35.34
9	957	DURBAN DEFENCE	1:49:38.69
10	951	UMZINWATHI A	1:49:39.02
11	961	MILNERTON SEN	1:50:56.38
12	944	NUCC PMBURG B	1:51:15.00
13	960	DABULAMANZI B	1:51:43.48
14	946	R A U SEN	1:51:44.25
15	956	ALEX-MASPS	1:53:00.16
16	941	STELLA B	1:53:57.28
17	950	MITS UNIVERSITY B	1:55:28.02
18	953	FETELA CC	1:55:55.04
19	945	NUCC PMBURG C	2:00:16.38
20	955	VICTORIA LAKE B	2:02:09.58

### The ecological functioning of rivers

THIS is a brief description of some of the most important processes which govern the plant and animal communities in rivers. First of all, the river carves out its own channel, which tends to be steep in the head-waters, where the water is sediment-free and therefore has a high erosive capacity, and progressively less steep down its course, as it becomes silt-laden. As a result of the input from tributaries, the river becomes wider and deeper downstream. Because of altitude differences, the temperatures are usually colder upstream.

The result is that rivers can generally be characterised as cold, clear, narrow, shallow and turbulent in the head-waters and warmer, turbid, wide, deep and calmer (though not necessarily slower flowing) at their seaward ends. The erosive nature of the head-waters results in hard rocky river beds, while the lower river tends to be depositional, having a sediment-covered river bed. The sorts of animals living in the different river zones are therefore very different. The upper river is inhabited by cold-tolerant animals adapted to resist turbulent flow and which require highly oxygenated water, such as stone-fly and mayfly nymphs. Lower river species will be less cold tolerant, more adapted to cope with turbid, silt-laden water, and more tolerant of less well-aerated water. Sediment burrowers such as oligochaete worms and chironomid midge larvae are typical.

One other important governing factor is the type of food that is available. In the upper reaches, the river tends to be narrow and overhung with trees. Water is clear and nutrient-poor. Attached and planktonic algae have little chance to develop in this shaded habitat, but large amounts of leafy and woody debris fall into the river. Animals of the upper reaches have to be able to break up and digest this difficult source of energy and nutrients. In the middle reaches, the river widens, temperatures increase, and the river is still shallow and clear enough for sunlight to penetrate to the river bed. Attached and free-living algae develop, and the fauna can exploit these food sources by scraping algae from the rocks or filtering them from the water. In the lower reaches the river bed is once more light-limited by depth and turbidity, and the food source may consist of drifting particles from upstream. The fauna is dominated by filter feeders and a lake-like zooplankton may develop. The diagram is an attempt to summarise some of these major changes throughout the river.

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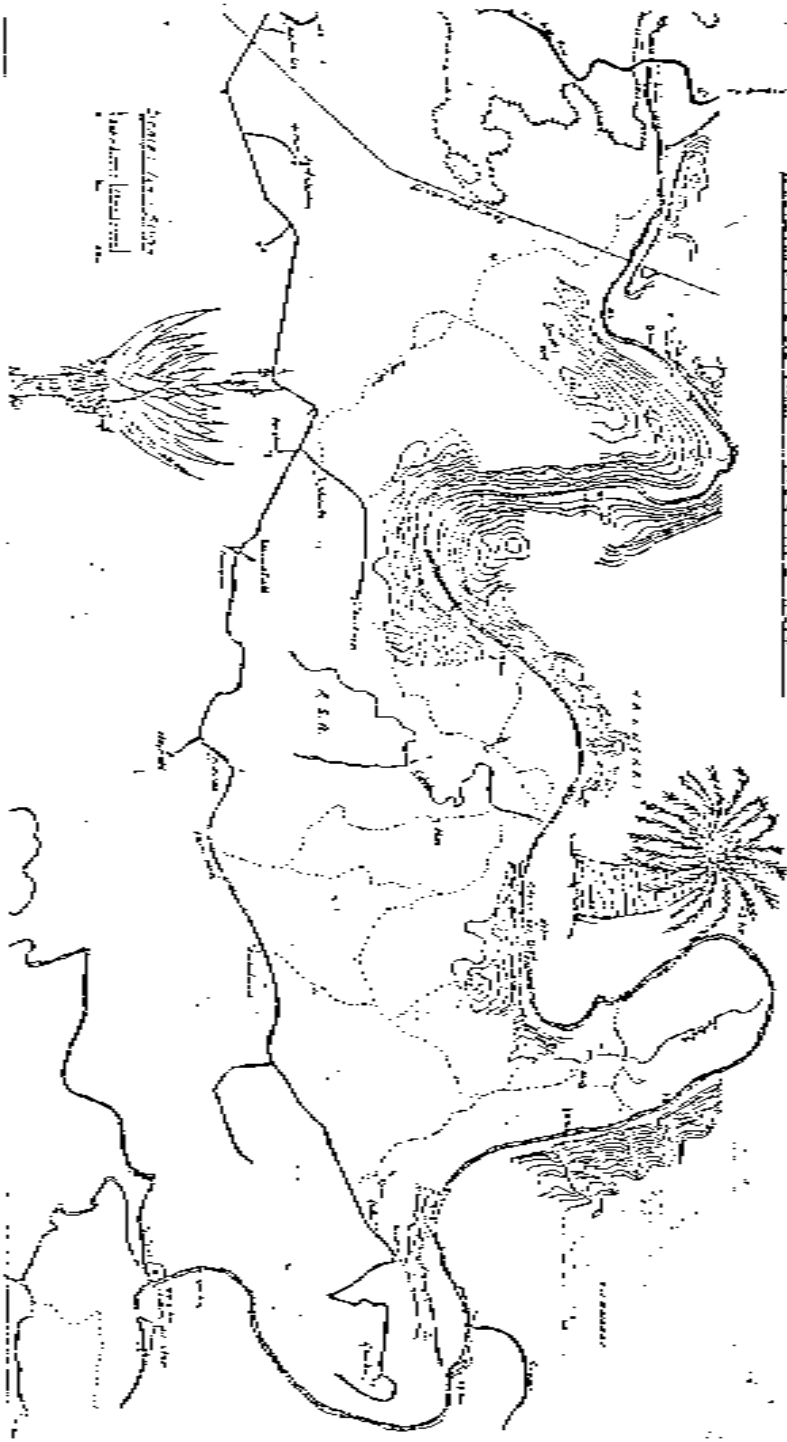
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# KEL RIVER MARATHON

DAY 1 - KEL PASSAGE TO JUSTICE - 40.5 KM



# KEL RIVER MARATHON

DAY 2 - JUSTICE TO KEL MOUNTAIN - 36.5 KM

