

RANGES IN COMPOSITION AND PROPERTIES OF FULVIC AND HUMIC ACIDS *

		FULVIC ACIDS	HUMIC ACIDS
% C		43 - 52	58 - 62
% H		3.4 - 5.1	2.9 - 5.4
% N		1.2 - 4.1	3.6 - 4.8
% O		43 - 51	29 - 32
C:H		10.7 - 14.9	10.8 - 21.4
C:O		0.8 - 1.2	1.8 - 2.1
COOH	(meq/100 g)	610 - 910	150 - 300
Phenolic OH	(meq/100 g)	270 - 570	290 - 570
Alcoholic OH	(meq/100 g)	0 - 490	0 - 350
C = O	(meq/100 g)	110 - 310	90 - 300
Optical density 726 to 465 mμ		<0.1 - 0.5	0.1 - 2.5
Weighted average molecular weight		4000 - 7000	50 000 - 90 000

*Compiled from Kononova (1966), Manskaya and Drozdova (1968),
Stevenson and Butler (1969) and Orlov *et al.* (1971).