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### Ferns of the Indo-Nepal border

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The ferns of the Valmikinagar area of virgin forest have been studied morphologically and cytologically. The area lies on the Nepal frontier at latitude 27°31', and has a monsoon type of climate. Twenty-five species belonging to 15 genera are recorded and further studies are in progress. Cytological results thus far are summarised in Table 1.

**Table 1.** Chromosome numbers of ferns of the Indo-Nepal border

Species	Chromosome number		Range of chromosome length in $\mu\text{m}$	Ploidy
	Mitotic (somatic)	Meiotic		
1. <i>Ophioglossum vulgatum</i> L.	240	120	2-4.5	Tetraploid
2. <i>Lygodium scandens</i> (L.) Sw.	60	30	3.0-7.2	Diploid
3. <i>Adiantum capillus-veneris</i> L.	60	30	3.1-6.5	Diploid
4. <i>A. caudatum</i> L.	60	30	3.1-6.5	Diploid
5. <i>Onychium auratum</i> (L.) Kaulf.	60	30	3.2-7.2	Diploid
6. <i>Cheilanthes farinosa</i> (Forsk.) Kaulf.	60	30	3.2-5.5	Diploid
7. <i>C. tenuifolia</i> (Burm.) Sw.	120	60	2.7-4.7	Tetraploid
8. <i>C. albomarginata</i> Clarke	60	30	3.0-7.0	Diploid
9. <i>Pteris cretica</i> L.	58	58	3.2-6.8	Diploid
10. <i>P. cretica</i> L.	87	87	2.4-5.5	Triploid (apogamous)
11. <i>P. bicusata</i> Retz (s.l.)	58	29	4.0-8.0	Diploid
12. <i>P. vittata</i> L.	116	58	3.6-7.2	Tetraploid
13. <i>Nephrolepis exaltata</i> (L.) Schoot.	82	41	2.8-5.5	Diploid
14. <i>N. cordifolia</i> (L.) Presl.	82	41	8.4-6.8	Diploid
15. <i>Dryopteris cochleata</i> (Don) Ch. Chr.	82	41	2.8-6.0	Diploid
16. <i>D. mollis</i> Desv.	164	82	4.2-8.4	Tetraploid
17. <i>Athyrium pectinatum</i> (L.) Bernh.	82	41	2.8-6.0	Diploid
18. <i>Diplazium esculentum</i> Presl.	82	41	2.4-4.4	Diploid
19. <i>Goniopteris multilinea</i> (Wall) Beddome.	72	36	3.1-5.7	Diploid
20. <i>Pleopeltis punctata</i> (L.) Copel.	72	36	3.6-7.2	Diploid
21. <i>P. longissima</i> Moore	74	37	3.1-8.0	Diploid
22. <i>Marsilea quadrifolia</i> L.	40	20	2.8-4.8	Diploid
23. <i>M. minuta</i> L.	40	20	2.9-4.6	Diploid
24. <i>Salvinia natans</i> (Cult) L.	36	18	2.8-5.3	Tetraploid
25. <i>Azolla pinnata</i> L.	44	22	1.6-2.4	Tetraploid