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RADIOCARBON DATES FOR ARCHAIC SITES AT PURAKANUI AND HAWKSBURN, OTAGO

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The following radiocarbon dates have been determined by The Institute of Nuclear Sciences, Lower Hutt.

Purakanui (S164/18)								
R. Number	Provenance		Old T1 (B.P.)	Uncalibrated New $T_2^1(B_P_P)$	Material			
5751/2	Square C, Layer	2B	1030 ± 60	1060 ± 65	Charcoal			
5929/1	Square A, Layer	2	562 + 30	579 ± 31	Marine shell			
5929/2	Square B, Layer	3	637 ± 30	655 ± 31	Marine shell			
5929/3	Square B, Layer	5	571 ± 34	588 ± 36	Marine shell			
5929/4	Square C, Layer	3	690 <u>+</u> 35	710 ± 36	Marine shell			
TABLE 1.	Purakanui (S164/	18)	radiocarbon	dates.				

The charceal date was obtained on large pieces of Coprosma sp. (60%) and Podocarpus totara/hallii (40%) and this sample ought to have been discarded before processing. The result is probably too old by some 300 years.

The marine shell dates were obtained on unburnt <u>Chione stutchburvi</u> valves. Estimates R.5929/2 and R.5929/4 are suspect because substantial re-crystallisation had occurred. The remaining two dates provide an average estimate of 566 ± 23 B.P. (Old T_2) according to Law (pers.comm.). The Purakanui site is discussed in Anderson (n.d.).

Hawksburn	(S133/5)	Uncalibrated		
R. Number	Provenance	01d T2(B.P.)	New T ₂ (B.P.)	Material
9078/1	HB/H/14 Spit II	692 ± 34	712 ± 35	Charcoal
9078/2	HB/H/8 Spit III	718 ± 34	739 ± 35	Charcoal
9078/3	HB/I/23 Spit II	714 ± 34	735 ± 35	Charcoal
9078/4	HB/M/6 Spit II	611 ± 33	629 ± 34	Charcoal
9078/5	HB/FB/8 Spit II	691 ± 33	711 ± 35	Charcoal
9078/6	HB/L/5 Layer 3	652 ± 33	671 ± 35	Charcoal
9078/7	HB/M/14 Spit IV	720 ± 33	742 ± 34	Charcoal
9078/8	HB/FA/15 Spit III	668 ± 33	687 ± 34	Charcoal
9078/9	HB/L/10 Layer 3	663 ± 29	683 ± 30	Charcoal
9078/10	HB/E/2 Layer 1	546 ± 34	562 ± 35	(see below)

TABLE 2. Hawksburn (S133/5) radiocarbon dates.

Samples R.9078/1-9 comprised charcoal of <u>Coprosma</u> sp. and <u>Olearia</u> sp. with minor amounts of <u>Hebe</u> sp. and, in one case (R.9078/7), a few fragments of <u>Phyllocladus</u> sp. This was all relatively short lifespan stem material and the <u>samples</u> were collected from <u>umu</u>. Sample R.9078/10 contained no identifiable charcoal. It was a <u>sample</u> of burnt soil containing finely comminuted carbonaceous material from a stone hearth.

The <u>umu</u> dates can be averaged at 680 ± 11 B.P. $(01d T_2^{\frac{1}{2}})$ and the whole series at 667 ± 19 B.P. $(01d T_2^{\frac{1}{2}})$ according to Law (pers. comm.). Previous dates obtained at Hawksburn are summarised in Hamel (1978) and a preliminary report of my investigations is in Anderson (1979).

Acknowledgements

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References

- Anderson, A.J. 1979 Excavations at the Hawksburn moa-hunting site: an interim report. N.Z.A.A. Newsletter, 22:48-59.
- Anderson, A.J. n.d. A Fourteenth Century Fishing Camp at Purakanui Inlet, Otago. Unpublished ms.
- Hamel, Jill 1978 Hawksburn revisited: an ecological assessment.

 N.Z.A.A. Newsletter, 21:116-128.