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IV. Measurement of certain Coniferous Trees, taken at St Fort, Fife

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Date.	Mean Tempera- ture open air.	Growth during 3 days.
July 3 to 6	54 deg.	1½ inches.
6 ... 9	46 "	2½ "
9 ... 12	43 "	3¾ "
12 ... 15	48 "	7 "
15 ... 18	50 "	9½ "
18 ... 21	45 "	10¾ "
21 ... 24	44 "	13¾ "
24 ... 27	51 "	17 "
27 ... 30	54 "	18½ "
30 ... 2 Aug.	52 "	19¾ "
Aug. 2 ... 5	47 "	17½ "
5 ... 8	47 "	18½ "
8 ... 11	43 "	19½ "
11 ... 14	45 "	20½ "

From the 14th of August to the 24th of September, the extra height reached was 25 feet, being an average of 2 feet for every three days. On the 24th of September, the extreme height of the shoot was 40 feet, the growth of 81 days. The plant was shifted into its present tub during the spring of 1858. The soil used was turf loam, about 4 inches of bruised bones covered the drainage previous to the plant being retubbed.

IV. *Measurement of certain Coniferous Trees, taken at St Fort, Fife*, by GEORGE PATTON, Esq., Advocate. Communicated by Mr M'NAB.

Cryptomeria Japonica (in cone)—height, 21 feet ; circumference of stem, 14½ inches. *Taxodium sempervirens*—height, 13½ feet ; circumference of stem, 10 inches. *Abies cephalonica*—height, 14½ feet ; circumference of stem, 20 inches.

V. *On the Economical uses of the Bamboo*. By ALEX. HUNTER, M.D., F.R.C.S.E., Madras School of Industrial Arts.

The Bamboo (*Bambusa arundinacea*), the largest known plant of the family of the gramineæ or grasses, grows luxuriantly in India, China, and other tropical countries. There are from eighteen to twenty species of bamboo already