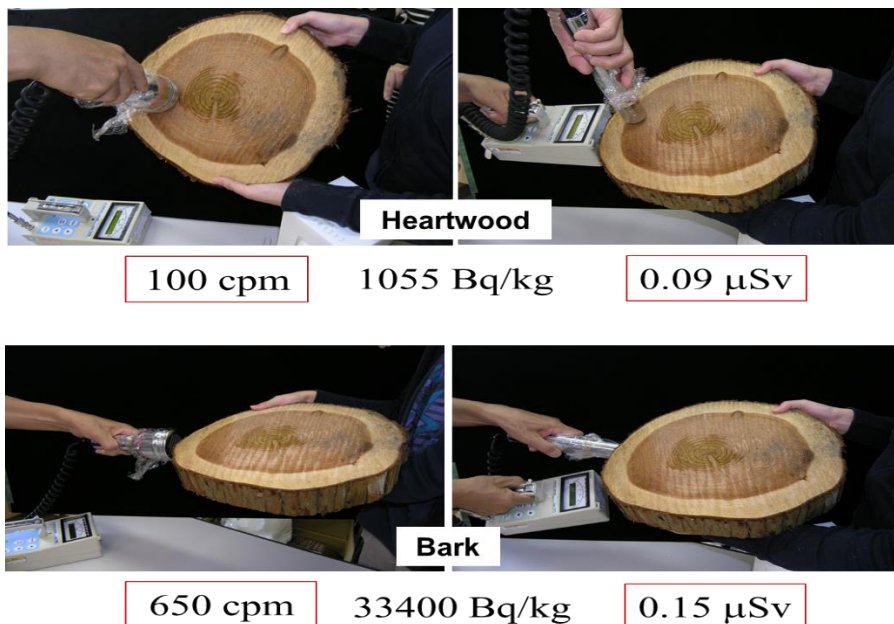


**Figure S1.** Attempted trials of potassium fertilization into forest trees by foliar spray either by hand (a) or radio-controlled helicopter (b and c) and by direct injection into tree trunks (d, e, and f) in a small forest. 0.5 to 2 M KCl solution was used for the fertilization.



**Figure S2.** Levels of radioactivity (cpm) determined by anNaI (TI) scintillation counter (left) and those of radiation (μSv) using a Geiger counter (right), based on radiocesium content (Bq/kg) in the stem section.



**Figure 3.** Ponding experiments for Fukushima forest trees. Cutting (a), immersion in the pool of water (b), stems in a pool (c), covered pool (d), vertical drain (e), and horizontal drain (f).

**Table S1.** Numbers of stems used for ponding experiments.

Radiocesium content in xylem	Length			Treatment time	
	2 m	3 m	4 m	165 days	575 days
				number	
~1200 Bq/kg	10			7	3
		1	3	1	3
~2500 Bq/kg		1	3	1	3
~4100 Bq/kg		1	3		3

Three low-level (~1200 Bq/kg in wood), two medium-level (~2500 Bq/kg in wood), and two high-level radiocesium-contaminated trees (~4100 Bq/kg) were cut down for use in the ponding method (Figure S3).