

Supplementary Material for Sustainability of Vertical Farming in Comparison with Conventional Farming: A Case Study in Miyagi Prefecture, Japan, on Nitrogen and Phosphorus Footprint

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Table S1. The categories of 36 vegetables consumed in Miyagi Prefecture, Japan, produced via conventional farming, including 9 target vegetables whose import ratios were above average in Japan in 2018

Vegetable Categories	Scientific Name
Japanese radish	<i>Raphanus sativus</i> var. <i>longipinnatus</i>
Turnips	<i>Brassica rapa</i> var. <i>glabra</i> and <i>Brassica rapa</i> var. <i>rapa</i>
Carrots	<i>Daucus carota</i> subsp. <i>sativus</i>
Edible burdock (great burdock)	<i>Arctium lappa</i>
Lotus root	<i>Nelumbo nucifera</i>
Chinese cabbage	<i>Brassica rapa</i> var. <i>pekinensis</i>
Japanese mustard spinach (Komatsuna)	<i>Brassica rapa</i> var. <i>perviridis</i>
Cabbage	<i>Brassica oleracea</i> var. <i>capitata</i>
Pak choi (bok choy)	<i>Brassica rapa</i> var. <i>chinensis</i>
Spinach*	<i>Spinacia oleracea</i>
Butterbur	<i>Petasites japonicus</i>
Japanese honewort	<i>Cryptotaenia canadensis</i> subsp. <i>Japonica</i>
Garland chrysanthemum (crown daisy)	<i>Glebionis coronaria</i>
Celery*	<i>Apium graveolens</i> var. <i>dulce</i>
Asparagus*	<i>Asparagus officinalis</i>
Cauliflower	<i>Brassica oleracea</i> var. <i>botrytis</i>
Broccoli*	<i>Brassica oleracea</i> var. <i>italica</i>
Lettuce	<i>Lactuca sativa</i>
Welsh onion*	<i>Allium fistulosum</i>
Chinese leek (garlic chives)	<i>Allium tuberosum</i>
Onion	<i>Allium cepa</i>
Garlic	<i>Allium sativum</i>
Water greens (Mizuna)	<i>Brassica rapa</i> var. <i>laciniifolia</i>
Cucumbers	<i>Cucumis sativus</i>
Pumpkins and squashes*	<i>Cucurbita</i> spp.
Eggplants	<i>Solanum melongena</i>
Tomato*	<i>Solanum lycopersicum</i>
Sweet pepper (bell pepper)*	<i>Capsicum annuum</i> var. <i>groszum</i>
Kidney beans, green pod	<i>Phaseolus vulgaris</i>
Peas, green pod	<i>Pisum sativum</i>
Broad bean (faba bean)	<i>Vicia faba</i>
Soybeans, green	<i>Glycine max</i>

Ginger	<i>Zingiber officinale</i>
Strawberry	<i>Fragaria × ananassa</i>
Melon*	<i>Cucumis melo</i>
Watermelon	<i>Citrullus lanatus</i>

* The target vegetables which import ratio were over average in Japan in 2018

Reference

Oita, A.; Katagiri, K.; Eguchi, T.; Morioka, R.; Shindo, J.; Hayashi, K.; Matsubae, K., Nutrient-Extended Input–Output (Nutrio) Method for the Food Nitrogen Footprint. *Environmental Research Letters* **2021**, *16*, (11), 115010.