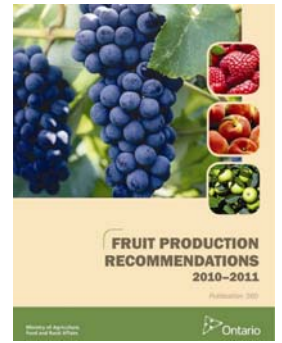


# Fruit Production Recommendations 2010-2011

Ontario Ministry of Agriculture, Food & Rural Affairs

## Chapter 4: Apples



**Table 4-1. Foliar Nutrient Sufficiency Range of Apple (mid-shoot leaves taken in last two weeks of July from mature trees)**

Variety	N*	P	K	Ca	Mg	Fe	B	Zn	Mn
	%					ppm			
Delicious, Crispin	2.2–2.7	0.15–0.40	1.4–2.2	0.8–1.5	0.25–0.40	25–200	20–60	15–100	20–200
Empire, Spy	2.1–2.6	0.15–0.40	1.3–2.1	0.7–1.5	0.25–0.40	25–200	20–60	15–100	20–200
McIntosh, others	2.0–2.5	0.15–0.40	1.2–2.0	0.8–1.5	0.25–0.40	25–200	20–60	15–100	20–200

\* Leaf nitrogen in non-bearing trees should be 0.2% higher. Leaf nitrogen on M.9 or M.26 rootstocks should be 0.2% higher.

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