

PRODUCTION: LIGHT, PHOTOSYNTHESIS AND CROPPING**Reading Materials****A. Regulation**

1. Elfving, D.C. 1996. Physiological processes and the coordination of vegetative and reproductive plant growth and development. pp. 3-10. K.M. Maib, P.K. Andrews, G.A. Lang, K. Mullinix (eds.) *Tree Fruit Physiology: Growth and Development*. Good Fruit Grower, Yakima, WA.
2. Looney, N.E. 1996. Role of endogenous plant growth substances in regulating fruit tree growth and development. pp. 31-40. K.M. Maib, P.K. Andrews, G.A. Lang, K. Mullinix (eds.) *Tree Fruit Physiology: Growth and Development*. Good Fruit Grower, Yakima, WA.
3. Rom, C.R. 1996. Environmental factors regulating growth: light, temperature, water, nutrition. pp. 11-30. K.M. Maib, P.K. Andrews, G.A. Lang, K. Mullinix (eds.) *Tree Fruit Physiology: Growth and Development*. Good Fruit Grower, Yakima, WA.

B. Light Management

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3. Palmer, J.W. 1989. Canopy manipulation for optimum utilization of light. pp. 245-261. C.J. Wright (ed.). *Manipulation of Fruiting*. Butterworths, London.
4. Wünsche, J.N. and A.N. Lakso. 2000. The relationship between leaf area and light interception by spur and extension shoot leaves and apple orchard productivity. *HortScience* 35(7):1202-1206.

C. Regulation of Photosynthesis

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D. Carbon Balance

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3. Lakso, A.N., L.C. Grappadelli, J. Wünsche and T. Robinson. 1997. Understanding apple tree production - balancing carbohydrate supply and demand. *Compact Fruit Tree* 30:11-17.
4. Lakso, A.N., J.N. Wünsche, J.W. Palmer and L. Corelli-Grappadelli. 1999. Measurement and modeling of carbon balance of the apple tree. *HortScience* 34(6):1040-1047.
5. Seem, R.C., D.C. Elfving, T.R. Oren and S.P. Eisensmith. 1986. A carbon balance model for apple tree growth and production. *Acta Horticulturae* 184:129-137.

E. Carbon Allocation

1. Forshey, C.G. and D.C. Elfving. 1989. The relationship between vegetative growth and fruiting in apple trees. *Horticultural Reviews* 11:229-287.
2. Forshey, C.G. and M.W. McKee. 1970. Production efficiency of a large and a small 'McIntosh' apple tree. *HortScience* 5(3):164-165.
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F. Crop Load vs. Gas Exchange

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G. Orchard Systems and Production

1. Barritt, B.H., M.A. Dilley and B.S. Konishi. 1997. Selecting intensive orchard systems for apples. *Compact Fruit Tree* 30:37-40.
2. Caruso, T., P. Inglese, F. Sottile and F.P. Marra. 1999. Effect of planting system on productivity, dry-matter partitioning and carbohydrate content in above-ground components of 'Flordaprince' peach trees.

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H. Crop Load Regulation and Production

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4. Dennis, F.G., Jr. and J.C. Nielsen. 1999. Physiological factors affecting biennial bearing in tree fruit: The role of seeds in apple. *HortTechnology* 9(3):317-322.
5. Greene, D.W. 1999. Reducing floral initiation and return bloom in pome fruit trees - Applications and implications. *HortTechnology* 9(3):740-743.
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