

REFERENCES

- Basile, B., Romano R., Giaccone M., Barlotti E., Colonna V., Cirillo Y. Shahak, and Forlani M. (2008). Use of photo-selective nets for hail protection of kiwifruit vines in southern Italy. *Acta Hort.* 770:185–192.
- Beer J, Muschler R, Kass D and Somarriba E (1998). Shade management in coffee and cacao plantations. *Agroforestry Systems*, 38: 139-164.
- Ben-yakir, D., Antignus, Y., Of, Y., & Shahak, Y. (2012). Colored shading nets impede insect invasion and decrease the incidences of insect-transmitted viral diseases in vegetable crops, 249–257
- Bhardwaj, R. L. (2013). Effect of growing media on seed germination and seedling growth of papaya CV. “Red lady.” *Indian Journal of Agricultural Research*, 47(2), 163–168.
- Bote, A., & Struik, P. (2011). Effects of shade on growth, production and quality of coffee (*Coffea arabica*) in Ethiopia. *Journal of Horticulture and Forestry*, 3(11), 336–341.
- Briassoulis, D., Mistriotis, A., & Eleftherakis, D. (2007). Mechanical behaviour and properties of agricultural nets. Part II: Analysis of the performance of the main categories of agricultural nets. *Polymer Testing*, 26(8), 970–984.
- Brown, C.S.; Schuerger, A.C. and Sager, J.C. (1995) Growth and photomorphogenesis of pepper plants under red lightemitting diodes with supplemental blue or far-red lighting. *J. American Society of Horticultural Science*, v. 120, p. 808- 813,
- Costa, L. C. do B., Pinto, J. E. B. P., Castro, E. M. de, Alves, E., Bertolucci, S. K. V., Rosal, L. F. (2010). Effects of coloured shade netting on the vegetative development and leaf structure of *Ocimum selloi*. *Bragantia*, 69(2), 349–359.

- Chapman, S.R., L.P. Carter, 1976. Crop Production: Principles and Practices. San Francisco: WH Freeman and Company, pp: 146-163.
- Davies J N and Hobson G E (1981). The constituents of tomato fruit - the influence of environment, nutrition, and genotype. *Critical Reviews in Food Science and Nutrition*. 15: 205-280.
- Edi, S., & Bobihoe, J. (2010). *Budidaya Tanaman Sayuran*, Balai Pengkajian Teknologi Pertanian Jambi Balai Besar Pengkajian dan Pengembangan Teknologi Pertanian Badan Penelitian dan Pengembangan Pertanian Kementerian Pertanian
- Edmond Jb, Senn tl, Andrews Fs, Halfacre Rg. 1978. *Fundamentals of Horticulture*. 4th ed. McGraw-Hill, Inc. p. 87-130.
- Farquhar GD, Sharkey TD (1982). Stomatal Conductance and Photosynthesis. *Annu. Rev. Plant. Physiology*, 33:317-345.
- Farzad Nazaril, Homayoun Farahmand, Morteza Khosh-Khui, Hassan Salehi. (2011). *Effects of coir as a component of potting media on growth, flowering and physiological characteristics of hyacinth (Hyacinthus orientalis L. cv. Sonbol-e-Irani)* .
- Friberg, H. (2005). Persistence of Plasmodiophora brassicae, Influence of Non-Host Plants, Soil Fauna and Organic Material. Faculty of Natural Resources and Agricultural Sciences Department of Entomology Uppsala.
- Giovanelli G, Lavelli V, Peri C and Nobili S (1999). Variation in antioxidant components of tomato during vine and post-harvest ripening. *Journal of Science and Food Agriculture*. 79: 1583–1588
- Guichard, S., Gary, C., Leonardi, C. and Bertin, N. (2001). Analysis of growth and water relations of tomato fruits in relation to air vapor pressure deficit and plant fruit load. *Journal of Plant Growth Regulation*. 24:201-213
- Ilić S Z, Milenković L, Bodroža-Solarov M, Marinković D and Šunić L (2012). Tomato fruits quality as affected by light intensity using colour shade nets. 47th Croatian and 7th International Symposium on Agriculture. Opatija. Croatia. Sym. Proc. 414–418.

- Kawabata, A., Lichty, J., Kobayashi, K. and Sahai, W. 2007. *Effects of photoselective shade cloths on potted Dracaena deremensis 'Janet Craig' and Dracaena marginata Colourama'*. J. Hawaiian Pacific Agric. 14: 49-54.
- Kim, G., Lim, H. S., Lim, T. S., Schaefer, L., & Kim, J. T. (2012). Comparative advantage of an exterior shading device in thermal performance for residential buildings. *Energy and Buildings*, 46, 105–111.
- Kim, S-J.; Hahn, E-J.; Heo, J.; Paek and K-Y. Effects of LEDs on net photosynthetic rate, growth and leaf stomata of chrysanthemum plantlets in vitro. *Scientia Horticulturae*, v.101, p.143-151, 2004.
- Larcher, W (2000). *Ecofisiologia Vegetal*. RIMA: São Carlos, 319p.
- Loebenstein, G and H Lecoq. (2012). *Viruses And Virus Diseases Of Vegetables In The Mediterranean Basin*. Amsterdam: Elsevier/Academic Press.
- Meena, R., Vashisth, A., Singh, R., Singh, B., & Manjaih, K. M. (n.d.). Micro Environment Study under Different Colour Shade Nets and its Effects on Biophysical Parameters in Spinach (*Spinacia Oleracea*), 11–17.
- Milenković L, Ilić S Z, Trajković R, Šunić L, Kapoulas N and Đurovka M (2012). Reducing of tomato physiological disorders by photoselective shade nets. 47th Croatian and 7th International Symposium on Agriculture. Opatija. Croatia Sym. Proc. 419–423.
- Muleke, E. M., Saidi, M., Itulya, F. M., Martin, T., & Ngouajio, M. (2014). Enhancing Cabbage (*Brassica oleraceae* Var *capitata*) Yields and Quality Through Microclimate Modification and Physiological Improvement Using Agronet Covers. *Sustainable Agriculture Research*, 3(2), 24.
- Muschler, RG. (2001). Shade improves coffee quality in a sub-optimal coffee-zone of Costa Rica. *Agroforestry Syst.*, 51(2): 131 – 139.
- Nissim-Levi, A., L. Farkash, D. Hamburger, R. Ovadia, I. Forrer, S. Kagan, and M. Oren-Shamir. (2008). Light-scattering shade net increases branching and flowering in ornamental pot plants. *J. Hort. Sci. Biotechnol.* 83:9–14.
- Oren-Shamir, M.; Gussakovsky, E.E.; Spiegel, E.; Nissim-Levi, A.; Ratner, K.; Giller,

- Y.E.; Shahak, Y (2001). Colored shade nets can improve the yield and quality of green decorative branches of *Pittosporum variegatum*. *Journal of Horticultural Science and Biotechnology*, v.76, p.353-361.
- Perez, M., Plaza, B.M., Jimenez, S., Lao M.T., Barbero, J. and Bosch J.L. (2006) The radiation spectrum through ornamental net houses and its impact on the climate generated. *Acta Hort.* 719: 631–636.
- Rajapakse, N.C.; Pollock, R.K.; McMahon, M.J.; Kelly, J.W.; Young, R.E (1992). Interpretation of light quality measurements and plant response in spectral filter research. *HortScience*, v.27, p.1208-1211.
- Riccardi, M., Mele, G., Pulvento, C., & Lavini, A. (2014). Non-destructive evaluation of chlorophyll content in quinoa and amaranth leaves by simple and multiple regression analysis of RGB image components, 263–272.
- Stamps, R.H. (1994). Evapotranspiration and nitrogen leaching during leatherleaf fern production in shadehouses. *SJRWMD Spec. Publ. SJ94- SP10*. St. Johns River Water Management District, Palatka, FL.
- Stamps, R.H. (2008). Differential effects of colored shade nets on three cut foliage crops. *Acta Hort.* 770:169–176.
- Stamps, R. H. (2009): Use of Colored Shade Netting in Horticulture. *HortScience*. 44(2): 239-241.
- Wilson, S.B. and Rajapakse.N.C. (2001): Growth control of *Lisianthus* by photosensitive plastic films. *HortTechnology* 11: 581–584.
- Wong, C.F. (1994). Scattered ultraviolet radiation underneath a shade-cloth. *Photodermatol. Photoimmunol. Photomed.* 10:221–224.
- Zabeltitz, C. von. (2011). *Integrated Greenhouse Systems For Mild Climates*. Berlin: Springer.

APPENDICES

APPENDIX A: Results of ANOVA

Appendix A1: Light Intensity

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F critical</i>
Shade net colour	802121982.1	4	200530495.5	5.160132	0.023636	3.837853
Light intensity	1354670176	2	677335088	17.429461	0.001214	4.45897
Error	310892040.5	8	38861505.06			
Total	2467684198	14				

Appendix A2: Number of Yield

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F critical</i>
Shade net colour	779.9467	14	55.71048	34.69514	1.812E-22	1.872588
Yield number	58.48	4	14.62	9.104982	9.733E-06	2.536579
Error	89.92	56	1.605714			
Total	928.3467	74				

Appendix A3: Number of Leaves

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F critical</i>
Shade net colour	4.238104	4	1.059526	3.768546	0.024113	3.006917
Leaves number	19.05238	4	4.763094	16.94148	1.32E-05	3.006917
Error	4.498397	16	0.28115			
Total	27.78888	24				

Appendix A4: width of Plants

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F critical</i>
Shade net colour	35.26115	3	11.75372	10.11116	0.003057	3.862548
Plants width	66.00796	3	22.00265	18.92783	0.000316	3.862548
Error	10.46205	9	1.16245			
Total	111.7312	15				

Appendix A5: Height of Plants

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F critical</i>
Shade net colour	1.55854	4	0.389635	2.611367	0.074684	3.006917
Plants height	16.28855	4	4.072137	27.2918	5.6872E-07	3.006917
Error	2.387317	16	0.149207			
Total	20.2344	24				

Appendix A6: Chlorophyll Content

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Shade net colour	51.24994554	4	12.81249	1.749674465	0.203838192	3.259166727
Chlorophyll content	3457.923435	3	1152.641	157.4047939	6.72131E-10	3.490294819
Error	87.87339571	12	7.322783			
Total	3597.046776	19				

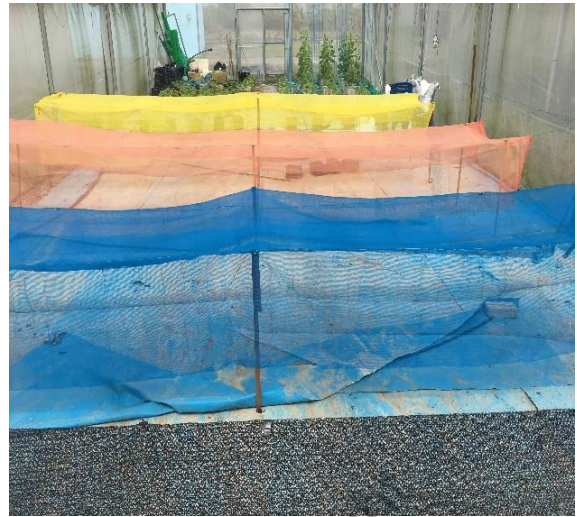
APPENDIX B: Procedure to start the study



Appendix B1: Before and After Cleaning the Greenhouse



Appendix B2: Fixing Pump and Pipelines



Appendix B3: Fixing Wooden Plunks and Hanging Shading Net

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