Table 1. Biomass of sunn hemp generated for each trial.

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| Trial (Location) | Planting period | Wet weight (tons/acre) | Dry weight (tons/acre) |
| I (Lanai) | 7/22/08-10/15/08 | 9.45 | 6.76 |
| II (Kunia – Khamphout Farm) | 8/15/08-10/7/08 | - | 2.51 |
| III (Hawaiikai-Osutji Farm) | 4/16 /09- 6/17/09 | 10.67 | 2.67 |
| IV (Kunia – Aloun Farm) | 5/19 /09 - 7/31/09 | 9.48 | 2.26 |

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| C:\Users\KoonHui\Documents\Pictures\Research\2008 WSARE\Lanai\10-15-2008\DSC00675.JPG | C:\Users\KoonHui\Documents\Pictures\Research\2008 WSARE\2009 WSARE_Khamphute\2009_7 Solarization\DSC01262 BG1.JPG |
| Fig. 1. A) Sunn hemp generated significant amount of biomass at 3 months after planting in Lanai. B) Soil solarization was performed by covering the soil with transparent plastic mulch for at least 6 weeks. | |



Fig. 2. a) Stem diameter and b) percentage of tomato plants in healthy conditions in control (C), sunn hemp (SH) and sunn hemp followed by soil solarization plots at 4 months after tomato planting.

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| DSC01318 SH2 DSC01317 SHSol2  **Solarized**  **Non-solarized** |
| Fig. 3. Weeds coverage in solarized vs non-solarized plots about 3 weeks after removing of solarization mulch in Kunia. |