

HIGH DENSITY PLANTING



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High Density Planting kan tih hian a tum ber chu, a tam thei ang ber a thar chhuah leh a hlawkna hmuhlet hi a ni a, chumi hmuchhuak tur chuan kan ram neihah a tam thei ang ber a thlai chin/phun a ni. High Density Planting-ah hian a tlangpui a kan chin thin chu theihai, balhla, serthlum, thingfanghma, kawltthei, sunhlu, apple leh a dang te an ni.

High Density Planting thil tum tlangpuite:

1. Kan huan horizontal space a tam thei ang ber hman.
2. Ni zung chakna thlai tan a tam thei ang ber lo lak.
3. Kan resource te hmang a, a tam thei ang ber thar chhuah.
4. Tangkai thei ang ber leh a tam thei ang ber thar chhuak tura kan huan/ram hman tangkai.
5. A par tur a insiam leh a zik no chawrte siam rem.

High Density Planting tura zawm ngaite:

1. Growth regulators hman
2. Training leh pruning
3. Rootstock (bul lam) atan dwarf variety hman
4. Scion atan dwarf variety hman
5. Crop management practicemumal taka hman

Growth regulators:

Growth regulator chu thlai than nan emaw a than titlai tu atan emaw siam danglamna atana chemical kan hman hi a ni. Growth regulator te zingah hian kan hman tlang lawn deuhte chu Paclobutrazol a ni. Entirnan Israel-a an Avocado/Butter fruit huanah khuan Paclobutrazol damdawiin an kap thin a, chu chuan a kung sang tak tak a zar a pharh tur a veng a ni. Heng kan sawi bakah hian daminozidethephon leh chlormequatte hi kan hman langsar zualte an ni.

Training and Pruning:

Training-ah chuan a thingkung size, pian hmang leh a zarte control a ni a. Training hi a phun atanga kum 2 vel atanga tih tan tur a ni. A zarpui chhuah hma atanga a kung hi siam tan tur a ni. A zar hi 4 aia a tam chuan cut/prune a, zar 4 te chu Chhim, Hmar, Thlang leh Chhak lam hawiin siam (training) tur a ni.

Pruning-ah chuan a zar lian lutuk tur te, a zar hrisel lo leh a zar upa deuhte chhawk tur a ni a, chu mi chuan ni zung lo lut tur a ti tha a, natna lakah thlai kung a veng a ni.

Dwarfing rootstock (Bul lam):

Dwarfing rootstock a kan hman thinte chu Serthlumah Troyer Citrange, Flying Dragon (*Poncirus trifoliata*) leh Karna Khatta. Kawlttheiah *Psidium friedrichsthalianum*, *P.chinensis* leh Pusa Srijan. Theihaiah Vellai Kullamban. Apple-ah M9, M26, M27, Bud. 9 leh Bud. 146, Plum Pixy rootstock te an ni.

Crop Management Practice:

Crop Management Practice-ah chuan a hun taka tui pekte, thlai mamawh tawh a leiṭha pekte leh huan samfai ṭhat te hi a huam a ni. Hei hi thlai kung hriselna atan a pawimawh em em a ni.

Thlai kung hrang hrangte HDP a spacing (a inkar hlat zawng) kan hman dante:

Sl. no.	Crop	Normal Spacing (m)	HDP Spacing (m)
1	Balhla	2×2 - 2×3	1.5×1.5 - 1.8×1.8
2	Theihai	7.5×7.5- 12.5×12.5	3×2.5 - 5×5
3	Serthlum	6×6 - 8×8	3 - 6×3 - 4.5
4	Thingfanghma	2×2 - 3×3	1.8×1.8
5	Kawlthei	6×6 - 8×8	3×3 - 3×1.5
6	Sunhlu	10×10	5×5
7	Apple	10×10	3×0.75

High Density Planting hmanga thlai/thei kung kan phun hian thlai/thei kan thar chhuah zat a tipung a. Hlawhtling taka High Density Planting kalpui tur chuan kan thlai chi thlante leh a rootstock (a bul lam) atana kan hman te uluk taka thlan a ngai a. Leiṭha, tui pek leh hnim sam faite a hun taka kan kalpui ṭhin a ngai bawh a ni. Heng te bakah hian kan thlai leh thei kung te kan chin/phun hma a mumal taka thlai kungte kan lei mil leh kan sik leh sa mil zel a kan siam rem hmasak a ngai a ni. Thingkungte a zar mumal tak leh hunbi nei tak a kan sahthlak a, growth hormones te mumal taka kan hman a ngai bawh a ni.

High Density Planting hmanna huanah chuan a zar leh zar inkar boruak a tithawl a, chu chuan boruak thawveng/air circulation ṭha a siam a. Hmun hnawng leh ni zung pawh theih lohna a titem a, natna a bikin fungal natna leh rannung bawmtu a titemin a veng a ni. Ni zungin a zar chhunglam a en ṭhat avangin a hnahin chaw a siamna kawng/process (photosynthesis) a tichak em em a ni. Natna leh rannung bawmtu an tlem phah em avang leh ni zung fir ṭhain a zar chhunglam leh a hnah a pawh ṭhat avangin chaw ṭha tam tak a siam theih avangin rah pawh a rah tawh a ni.

High Density Planting-ah chuan a kung a san loh avangin natna emaw rannung bawmtu an awm thu ah pawh damdawi kah a awlsamin, hlawhfa ṭha tam tak kan seng lo a, chuvang chuan operational cost leh sum sen a tlem em em a ni. A rah a lo hmin a, lawh a hunah pawh a kung a hniam te te vangin tihdan ṭhin pangngai a thingkung sang tak tak lawn ngai loin, a zar hniam tak tak aṭangin awlsam takin a lawh mai theih ṭhin a ni. Chu chuan hun leh ṭha leh sum tam tak a save ta ṭhin a ni.

High Density Planting-ah chuan thei kung tam tak inhnaih te te a phun tlar an nih ṭhin avangin, kung khatah rah tlem zawh mah se a huan lo ram pumpui thei rah thar chhut chuan, phun dan ṭhin pangngai nen a tehkhin chuan a thar tam zawh ṭhin hle a ni.