MEGA SARFIKA.  Growth and production of Cymodocea rotundata and Cymodocea serrulata at Pramuka Island and Panggang Island, Kepulauan Seribu, DKI Jakarta. Under the direction of MUJIZAT KAWAROE and ADRIANI SUNUDDIN.

Growth and production of seagrass of species Cymodocea rotundata and Cymodocea serrulata were conducted at Pramuka Island and Panggang Island, Kepulauan Seribu, using leaf and rhizome marking method. Period of this study in June-July 2011. The data were initiated on June 8, for seagrass marking leaf and rhizome for Cymodocea rotundata at Pramuka Island and for Cymodocea serrulata at Panggang Island. Studied biological growth parameters were rhizome length and diameter, leaf length, above ground production and below ground production.

Result of the study showed that growth of Cymodocea rotundata faster than Cymodocea serrulata both leaf and rhizome growth. The mean absolute growth of rhizome length for Cymodocea rotundata is 9,36 cm/month and Cymodocea serrulata is 0,75 cm/month. The mean absolute growth of diameter rhizome for Cymodocea rotundata is 0,06 cm/month and 0,02 cm/month for Cymodocea serrulata. Leaf growth of seagrasses mostly be distinguished between new leaves and old leaves. The mean leaf growth of Cymodocea rotundata is 7,10 cm/month for new leaves and 4,97 cm/month for old leaves. The leaf growth of Cymodocea serrulata is 2,94 cm/month for new leaves and 1,64 cm/month for old leaves. The growth rate of new leaves faster than old leaves for both species. The leaf growth of Cymodocea rotundata faster than Cymodocea serrulata.

The total production of Cymodocea rotundata is 36,26 gdw/m²/month was acquired from 21,17 gdw/m²/month of above ground production and 15,09 gdw/m²/month of below ground production. Cymodocea serrulata have lower total production is 26,39 gdw/m²/month was acquired from 15,80 gdw/m²/month of above production and 10,59 gdw/m²/month of below ground production. The conclusion of this study showed that the total production of seagrass Cymodocea, above ground production higher than below ground production for both species.

Keywords: Growth, Production, Cymodocea, Pramuka Island, Panggang Island, Jakarta