

## 落花生新品系機械栽培法試驗

張隆仁

行政院農業委員會台中區農業改良場

摘要：本試驗分別於88年及89年春作進行新品系台中育1號及2號之繁殖，每期作各繁殖0.1公頃。其次「新品系不同成熟期機械採收試驗」以台中育1號及2號，台南11號(CK)及地方種立枝仔(CK)為材料於89年3月16日進行於大城鄉進行機械播種作業。並於89年6月23日(R7期)、6月30日(R8期)及7月11日(R9期)等三個不同成熟期以械聯合收穫機進行機械收穫。R7期試驗結果，台中育1號之鮮莢產及乾莢產量分別為10,246及3,070公斤/公頃、脫莢率99%、帶子房柄率4.0%、破裂莢率0.3%；台中育2號鮮莢產量及莢產量分別為10,465及3,283公斤/公頃、脫莢率99%、帶子房柄率3.3%、破裂莢裂0.5%。地方種立枝仔鮮莢及乾莢產量分別為8,823及2,808公斤/公頃、脫莢率95%、帶子房柄率2.4%、破裂率0.4%。台南11號鮮莢及乾莢產量則為5,350及2,275公斤/公頃。第二次收穫期(R8期)台中育1號之鮮莢及乾莢產量則分別為11,281及4,962公斤/公頃、脫莢率97%、帶子房柄率則為9.1%、破裂率0.5%；台中育2號莢及乾莢產量則分別為10,447及5,074公斤/公頃、脫莢率98%、帶子房柄率10.6%、破裂莢率1.5%；台南11號鮮莢及乾莢產量則分為7,503及3,998公斤/公頃，脫莢率為95%、帶子房柄率6.5%、破裂莢率0.6%；地方種立枝仔之鮮莢產量為10,044及4,536公斤/公頃、脫莢率97%、帶子房柄率9.1%、破裂率1.2%。R9成熟期試驗結果，台中育1號鮮莢及乾莢產量分別為7,749及4,864公斤/公頃、脫莢率95.6%帶子房柄率9.8%、破裂率1.6%；台中育2號鮮莢及乾莢產量分別為7,237及4,358公斤/公頃，脫莢率98%、帶子房柄率10.4%、破裂率1.5%；台南11號乾莢及鮮莢產量則分別為5,077及3,291公斤/公頃，脫莢率95%、帶子房柄率7.4%、破裂莢率0.5%；地方種立枝仔鮮莢及乾莢產量分別為7,727及4,217公斤/公頃，脫莢率98%、帶子房柄率11.3%、破裂莢率0.4%。據此顯示台中育1號及台中育2號較之對照台南11號以機械收穫時，脫莢率無差異均高於98%、帶子房柄率則較高、莢果破裂率則亦無顯著差異。

## Study of Cultivations With Combine Harvester for the Yield of Peanut Lines

Chang L. Z.

Taichung DAIS, COA

**Abstract:** The propagation of the newly developed lines of peanut that named Taichung-yu No.1 and Taichung-yu No.2 were conducted during fall crops on 1999 and spring crop on 2000 at Taichung DAIS. To investigate the newly developed lines of peanut during different mature stages with peanut combine harvester, the trials were conducted at Ta-Chen Hsiang during spring crop on 2000. Two newly developed lines and two check varieties were investigated at three maturing stages treatments those were R7, R8 and R9 with combine harvester. At R7 period, the results showed that the yields of fresh pod and dry pod of Taichung-yu No.1 were 10,246 kg/ha and 3,070 kg/ha, respectively. And the ratio of thresh pods is 99%, the ratio of unthreshed ovary pedicle is 4.0% and the broken pods percentage is 0.3%. The yield of fresh pod and dry pod of Taichung-yu No.2 were 10,465 kg/ha and 3,283 kg/ha, respectively. And the ratio of thresh pods is 99%, the ratio of unthreshed ovary pedicle is 3.3% and the broken pods percentage is 0.5%. The check local variety Li-chi-tze (CK1) showed 8,823 kg/ha and 2,808 kg/ha in yield of fresh pod and dry pod, respectively. And for the other three characteristics were 95%, 2.4%, 0.4%. The other check variety Tainan No.11 (CK2) showed 5,350 kg/ha and 2,275 kg/ha in yield of fresh pod and dry pod, respectively. And for the other three characteristics were 99%, 3.0%, 0.3%. During R8 stage, the yields of fresh pod and dry pod of Taichung-yu No.1 were 11,281 kg/ha and 4,962 kg/ha, respectively. And the ratio of thresh pods is 97%, the ratio of unthreshed ovary pedicle is 9.1% and the broken pods percentage is 0.5%. The yield of fresh pod and dry pod of Taichung-yu No.2 were 10,447 kg/ha and 5,074 kg/ha, respectively. And the ratio of thresh pods is 98%, the ratio of unthreshed ovary pedicle is 10.6% and the broken pods percentage is 1.5%. Local variety Li-chi-tze showed 10,044 kg/ha and 4,536 kg/ha in yield of fresh pod and dry pod, respectively. And for the other three characteristics were 96%, 9.8%, 1.6%. Tainan No.11 showed 7,503 kg/ha and 3,998 kg/ha in yields of fresh pod and dry pod, respectively. And for the other three characteristics were 97%, 9.1%, 1.2%. While the last R9 stage, the yields of fresh pod and dry pod of Taichung-yu No.1 were 7,749 kg/ha and 4,864 kg/ha, respectively. And the ratio of thresh pods is 96%, the ratio of unthreshed ovary pedicle is 9.8% and the broken pods percentage is 1.6%. The yield of fresh pod and dry pod of Taichung-yu No.2 were 7,237 kg/ha and 4,358 kg/ha, respectively. And the ratio of thresh pods is 98%, the ratio of unthreshed ovary pedicle is 10.4% and the broken pods percentage is 1.5%. Local variety Li-chi-tze showed 7,727 kg/ha and 4,217 kg/ha in yields of fresh pod and dry pod, respectively. And for the other three characteristics were 98%, 11.3%, 0.4%. Tainan No.11 showed 5,077 kg/ha and 3,291 kg/ha in yields of fresh pod and dry pod, respectively. And for the other three characteristics were 95%, 7.4%, 0.5%. The results of two newly developed lines harvest by peanut combine during three mature stage showed higher ratios in unthreshed ovary pedicle than the check variety Tainan No.11.