

## Two new varieties of Gramineae from Japan.

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### 日本の禾本科植物の二變種

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#### Introduction

The varieties are described here on the basis of the materials preserved in the herbarium of the University of Tokyo. The varieties show many significant characteristics that are different from the type species. The variety of *Arundinella hirta* grows in an uninhabited Island southwest of the Kochi Prefecture. The new variety of the *Avena sativa* was collected by C. Abe from a cultivated field in the town of Tokushima Prefecture.

I wish to express my gratitude to Professor H. Hara of the University of Tokyo, and to Dr. Ohwi of the National Science Museum, Ueno-Park, who helped me and gave me many valuable suggestions with regard to the classification of the grasses. Thanks are extended to Mr. T. Yamawaki of the Makino Botanical Garden, Kochi Prefecture, who gave me valuable informations about the habitat of the new variety of the *Arundinella hirta*.

#### *Arundinella hirta* (Thunb.) Koizumi var. *cylindrica* Y. Lee, nov. var.

Perennis. Culmi 100 cm alti, 5 mm crassi. Lamina superne undulata, 50 cm longa, 18 mm lata. Ligula membranacea, 1 mm longa, collo intra longe-villoso, vagina superne hirsuta. Panícula cylindrica, 17 cm longa, 1 cm crassa. Glumae superne in nervis scabrae. Spicula 2-flora, 3-3.5 mm longa. Gluma 1, 2.5-3 mm longa, 5 nervis. Gluma 2, 3-3.5 mm longa, 5 nervis. Flos inferior sterilis, lemma 3 mm longum, 3 nerve. Palea 2.5 mm longa, 3 staminata. Antherae 1.8 mm longae. Flos superior fertilis. Lemma aristatum, 3-3.5 mm longum, 3 nerve. Stamina 3, pistillum 2-stigmaticum. Lodiculae duae, truncatae. Villi calli longitudine 1/2 lemmatis aequantes.

Hab. Himeshima Island, south west of Prefecture Kochi, Japan, leg. T. Yamawaki, Aug. 21, 1959, in TI.

The species is allied to *Arundinella hirta*, but differs in the cylindrical spikelike panicles. (see fig. 1, 2)

#### *Avena sativa* Linne var. *tokushimanensis* Y. Lee, nov. var.

Annual. Culmi plures, 20-25 cm alti. Lamina 20-23 cm longa, 1.5 cm lata. Ligula membranacea, 4-6 mm longa. Inflorescentia inferne a vaginis foliorum tecta, compacta, 7 cm longa, 2 cm lata. Spicula 18 mm longa, plerumque tiflora. Flos inferior muticus. Flos superior erecto-aristatus. Gluma 1 16 mm longa, 7-9 nervis. Gluma 2 abscessus. Lemma inferum floriferum 14-15 mm longum, 7 nerve, superne dorso villosum, muticum. Palea bifida, 12 mm longa, 2 nervis, ciliis in nerve. Ovaria dense villosa, stigmata 2. Stamina 3. Anthera 2.5 mm longa. Lodiculae forma festicoideae. Flos superior: Lemma dorso aristatum, 10-12 mm longum, 7 nerve, villis paucis dorso superne stipatum. Pediceli 2.5-4 mm longi. Callus villosus.

Hab. Cultivated field, Kawashima Machi, Tokushima Prefecture, leg. Chikaichi Abe, No. 11, May 10, 1942, in TI.

The species is allied to *Avena sativa* and *A. fatua*, but differs from the both in the suppressed second glume, the lemma of the lower floret awnless, and in very short pedicels. Inflorescences not exerted from the upper leaf sheath. Inflorescence produces spikelets compactly on the axis. Culms are several in the stock and shorter than in *Avena sativa* and *A. fatua*. (see fig. 3, 4)

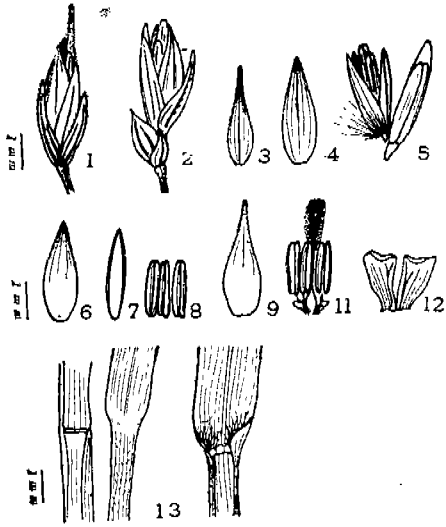


Fig. 1

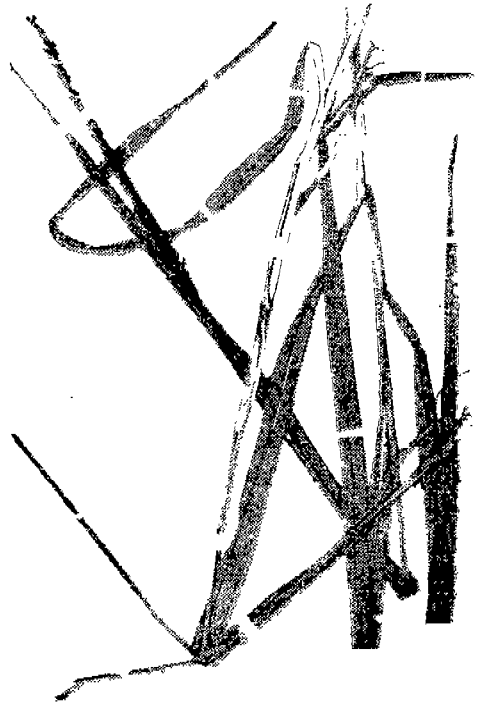


Fig. 2

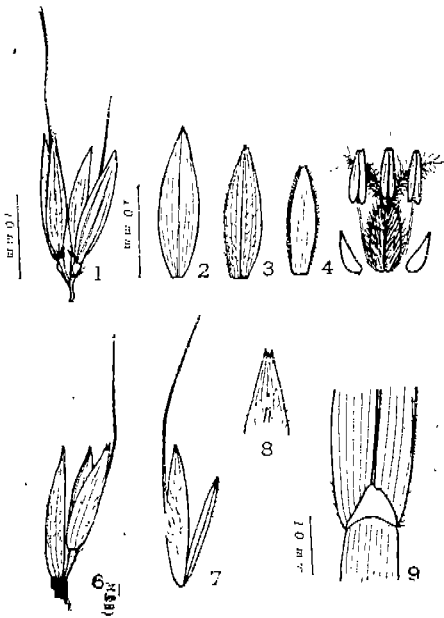


Fig. 3

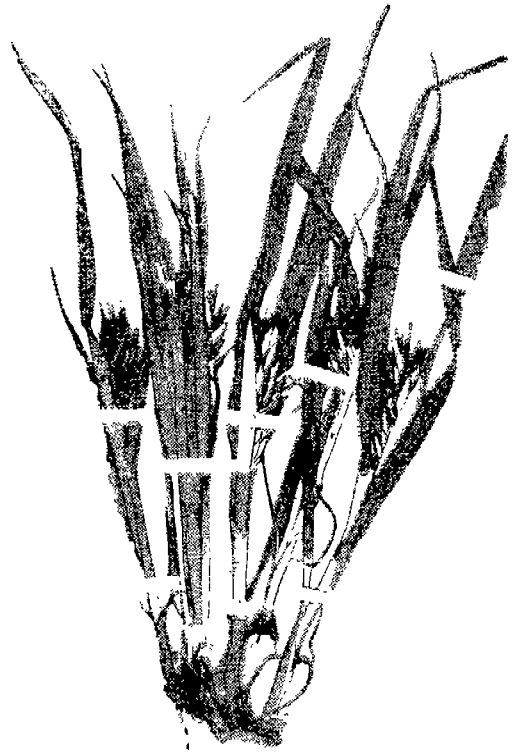


Fig. 4

fig. 1. *Arundinella hirta* var. *cylindrica* Y. Lee. 1. spikelet, 2. spikelets, 3. first glume, 4. second glume. 5. two florets from a spikelet, 6. lemma of lower floret, 7. palea of lower floret, 8. anthers of lower floret, 9. lemma of upper floret, 11. stamens, pistil and lodicules of upper floret, 12. lodicules, 13. leaf sheath and ligule.

fig. 2. Photograph of the type specimen of *A. hirta* var. *cylindrica* Y. Lee.

fig. 3. *Avena sativa* var. *tokushimanensis* Y. Lee. 1. spikelets, 2. first glume, 3. lemma of lower floret, 4. palea of lower floret, 5. pistil, stamens and lodicules, 6. two florets, 7. lemma and palea of upper floret, 8. apical portion of the lemma, 9. ligule.

fig. 4. Photograph of type specimen of *Avena sativa* var. *tokushimanensis* Y. Lee

### 摘 要

1958年 8月 21日에 山脇 哲臣에 의하여 日本四國 高知縣의 南西無人島 姫島에서 採集된 우리나라 새풀과 비슷하나 꽃이 삭이 圓柱狀으로 되는것과 1942年 5月 10日에 阿部近一에 의하여 채집된 이 귀리에 비슷하면서도 小穗 밑 꽃이 삭의 出現상태등에 있어서 현저한 差異를 가지고 있음으로 變種取扱을 해서 기록하는 바이다.