

毫米。花期6月。

产河北、四川西北部。生于山坡草地，海拔1350—3300（—4300）米。模式标本采自河北东陵。

162. 大药早熟禾（西北植物学报）

Poa macroanthera D. F. Cui in Act. Bot. Bor Occ. Sinica 7 (2): 100, 图9. 1987; 新疆植物志 6: 98, 图版35. 1996.

多年生，疏丛。秆高40—50厘米，具4—5节，平滑无毛。叶鞘短于其节间，平滑无毛；叶舌长1.5—3毫米，两侧稍有微刺毛；叶片长6—8厘米，宽1—3毫米，两面及边缘平滑无毛。圆锥花序开展，长8—15厘米；分枝长达8厘米，下部长裸露，小枝先端具1—2小穗；小穗长6—7（—9）毫米，含3—4（—5）小花，着花稀疏，宽5—7毫米；小穗轴细长，平滑无毛，长2毫米，外露；第一颖长3—5毫米，具3脉，第二颖长4—5毫米；外稃质地薄，5脉明显，第一外稃长5.5毫米，脊中部与边脉1/3以下及间脉基部均生柔毛，基盘具少量绵毛；内稃较外稃短1/4，两脊微糙；花药长3毫米，退化花药长约0.5毫米。花期6—7月。

产新疆（和静、博克达山马牙山）。生于山谷河旁、林缘亚高山森林草甸，海拔2500—2800米。模式标本采自新疆和静。

163. 恒山早熟禾（禾本科图说） 图版21: 10

Poa hengshanica Keng ex L. Liu, in Addemda; 中国主要植物图说·禾本科 176, 图127. 1959; 河北植物志 2: 1169. 1984; 横断山区维管植物 2: 2193. 1994, sine latin. descr.

多年生。秆高50—60厘米，具2—3节，压扁，多少粗糙。叶鞘微粗糙，顶生者长约10厘米，短于其叶片；叶舌长1—2毫米；叶片扁平，长12—17厘米，宽1—2毫米，上面粗糙。圆锥花序长15—20厘米，宽约4厘米；分枝每节3枚，糙涩，主枝长达8厘米，上部疏生小穗；小穗倒卵形，较大，长5—7毫米，含3—5小花；小穗轴具微毛；颖具3脉，先端锐尖，微粗糙，第一颖长3.5—5毫米，第二颖长4—5毫米，稍宽，具5脉；外稃先端具少些膜质，其下带紫色，间脉不甚明显，长3.5—5毫米，脊中部以下和边脉下部1/3具长柔毛，基盘具少量绵毛；内稃稍短，两脊中部具纤毛；花药长约2毫米。花期6—7月。

产河北、四川北部。生于山坡阳处湿润草地。模式标本采自河北来源。

164. 变色早熟禾（横断山区维管植物） 图版20: 6

Poa versicolor Boss. in Enum. Pl. Volhyn. 41. 1821; Roshev. in Kom. Fl. URSS 2: 399, Pl. 30, fig. 1. 1934; Fl. Recp. Soc. Roaman. 12: 407. 1972; Tzvel. in Fed. Poac. URSS 472. 1976; Edm. in Tutin et al. Fl. Europ. 5: 163. 1980; 横断山区维管植物 2: 2193. 1994. — *Poa sterilis* var. *versicolor* Griseb. in Ledeb. Fl. Ross. 4: 375. 1853.



图版 21 早熟禾属 *Poa* 各种小穗。1. 细早熟禾 *P. debilior* Hitchc.。2. 糙叶早熟禾 *P. asperifolia* Bor. 3. 疏穗早熟禾 *P. lipskyi* Roshev.。4. 多鞘早熟禾 *P. polyclea* Stapf. 5. 那非早熟禾 *P. nephelophila* Bor. 6. 拉哈尔早熟禾 *P. labulensis* Bor. 7. 毛轴早熟禾 *P. pilipes* Keng. 8. 喀斯早熟禾 *P. khasiana* Stapf. 9. 罗氏早熟禾 *P. rossbergiana* Hao. 10. 恒山早熟禾 *P. hengshanica* Keng ex L. Liu. (刘平绘)

clausae, summa 5.5—10cm longa, lamina sua longiore; ligula membranacea, truncata, 0.5—1mm longa; laminae tenerae, 2.5—4cm surculariae usque ad 1111cm longae, 0.5—1mm latae, planae, glabrae vel supra minime puberulae; panicula angusta, 7—9cm longa, ramis binis, gracilibus, inferne levibus, superne scaberulis, basalibus 4.5—5.5cm longis, in 2/3 inferiore nudis, ramlulis apicum versus 2—5-spiculatis; spiculae 4—5mm longae, 2—3-florae, prasinæ; glumæ lanceolatae, acutæ, marginibus anguste membranaceis, carina superne scaberula, prima 2—3mm longa, 1-nervi, secunda 3—4mm longa, 3-nervi; lemmata lanceolata, acuta, antice anguste emembranacea, nervis intermediis haud valde distinctis, medianis in 2/3 marginalibus in 1/2 inferiore breviter pilosis, callo mederatim lanuginoso, lemmata primo circ. 4mm longo; palea lemmata 1/2—2/3 brevior, carinis sparse longeque ciliatis; antheræ circ. 0.6 mm longæ; caryopsis immatura.

Sichuan: W. P. Fang 1581 (Typus, JSBI)

Poa grandispica Keng ex L. Liu, sp. nov.

Haec species ad Ser. Palustrem pertinet, sed ex omnibus speciebus huibus seriei dieffert paniculae magnæ ramis e basi dense pluri-spiculatis, spiculis majoribus, 7—10mm longis, 8—10floris, et planta 6—8-nodi.

perennis, rhizomatis brevibus; radices fibrosae crassiores; culmi laxe caespitosi, erecti et robustiores, 6—8-nodes, circ. 50cm alti, circ. 3mm crassi, sub panicula scabriusculi; vaginæ scabrae, aquitantes, internodiis longiores, summa medium culni superante, 6—8cm longa, lamina sua ditiplo-breviore; ligula membranacea, obtusa vel acuta, 2—4mm longa; laminae planæ vel marginibus involutæ, utrinque scabrae, 14—22cm longae, 4—5mm latae; panicula ovata vel oblonga, dense spiculata, viridis (juvenis), 12cm longa, 2.5—6cm lata, ramis 3—5-natis, scabris, ascendentibus, basalibus usque ad 6cm longis, e basi vel prope basin spiculas gerentibus; spiculae ovato-oblongae vel. lanceolatae, (5—) 7—10 mm longae, (5—) 8—11-florae, rhachilla glabra et leviter scabra; glumæ lanceolatae, acuminatae 3-nerviae, nervis superne scabris, prima 3.5—4mm longa, secunda 4.5—5mm longa; lemmata oblongo-lanceolata, nervis intermediis leviter distinctis, medianis in 1/2 marginalibus in 1/3 inferiore pilosis, callo sparse lanuginoso, lemmata primo (3—) 4—4.5mm longo; paulo brevior, carinis superne ciliolatis; antheræ circ. 2mm longæ.

Hebei: Neiqiu, ad pratum declivitatis crescens, alt. 1150m, 13 VII 1950, Y. Liu 13059 (Typus, JSBI).

Poa hengshanica Keng ex L. Liu, sp. nov.

Species P. mongolicae (Rendle) Keng valde similis, sed spiculis majoribus, 6—7mm longis, glumis longioribus, 3.5—5mm longis, ramis paniculae multioribus, et ligula longiore

recedit.

Perennis, radicibus fibrosis; culmi erecti, circ. 50—60cm alti, 2—3-nodes, superne nudiscabrique; vaginae internodiis longiores, leviter scaberulae, summa 8—10cm longa, lamina sua (circ. 17 cm longa) breviore; ligula 1—2mm longa, membranacea, obtuso-rotunda, basi flavo-brunnea; laminae planae, infra leves, supra scabrae, 12—17cm longac, 1—2mm latae; panicula oblongo-lanceolata, 14—20cm longa, circ. 4cm lata, ramis 3-natis, scabris, ascendentibus, in 1/4—2/3 inferine nudis, superne laxe spiculatis, basalibus usque ad 8 cm longis; spiculae obovatae et oblanceolatae, 5—7mm longae, 3—4-florae, articulis rhachillae dorso minute puberulis; glumae lanceolatae vel ovato-lanceolatae, acuminatae, 3-nerviae, carina scaberula, prima 3.5—5mm longa, secunda 4—5mm. longa; lemmata lanceolato-oblonga, apice leviter membranacea, infra apicem membranaceum purpureo-tincta, nervis intermediis fere obscuris, medianis infra medium marginalibus in 1/3 inferiore longiuscule pilosis, callo sparse lanuginoso, lemmata primo 3.5—5mm longo; palea lemmata paulo brevior, carinis ad partem medium ciliolatis; antherae 1.8—2.2mm longae.

Hebei: Laiyuan, ad terram humidam crescens, alt. 1350, 24 VIII 1934, K. M. Liu 2985 (Typus, JSBI).

Poa incerta Keng ex L. Liu, sp. nov.

Species P. viridulae Palib. in valde similis, sed culmo infra paniculam scabro, ramis paniculae saepissime geminis, et glumis longioribus, 3—3.5mm longis differt.

Perennis, radicibus fibrosis; culmi caespitosi, erecti, 60—70cm alti, circ. 1mm crassi, superne nedi, leves vel scabri, 3—4-nodes, nodo supremo e basi culmi 15—21 cm remoto; vaginae scaberulae, internodiis longiores vel breviores, summa circ. 13—14cm longa; ligula membranacea, obtusa, 1—3mm longa; laminae planae vel involutae, firmae et saepe erectae, infra leves, supra scabrae, 5—11cm longae, 1.5—2mm latae; panicula angusta vel linearis, viridis vel purpurea, 7—11cm longa, circ. 1mm lata, ramis binis, scabris, erectis, basalibus usque ad 6cm longis, infra medium nudis; spiculae obovato-lanceolatae, 2—3-florae, (3—) 4—5mm longae, interdum viviparae, rhachilla scaberula; glumae lanceolatae et ovato-lanceolatae, acuminatae, punctate scabrae, 3-neriae, prima 3mm longa, secunda 3—3.5mm longa; lemmata lancolato oblonga, apice leviter membranacea, nervis intermediis obscuris, medianis in 1/2 marginalibus in 1/3 inferiore pilosis, callo sparse lanuginoso, lemmata primo 3—3.5 mm longo; palea lemmata paulo brevior vel longior, inter carinas scabras puberula; antherea 1.2mm longae.

Shanxi: Wutai, ad declivitatem crescens, alt. 2200m, 12 VII 1929, T. Tang 1073 (Typus, JSBI).