

186. 四花早熟禾 (禾本科图说)

Poa tetrantha Keng ex L. Liu in Addenda; 中国主要植物图说·禾本科 197, 图 150. 1959, sine latin. descr.

多年生, 密丛。秆高 15—25 厘米, 径约 0.5 毫米, 具二节, 花序以下微糙涩。叶鞘短于或近等于节间, 顶生者长 3—4 厘米, 长于其叶片 2—3 倍; 叶舌长 1.5—3 毫米; 叶片短而尖, 对折或内卷, 长 1—2 厘米, 宽 0.5—1 毫米, 糙涩或下面平滑。圆锥花序紧密狭窄, 长 2—3 厘米, 宽 5—12 毫米, 每节具 2—3 个分枝; 分枝粗糙, 自基部着生小穗, 长约 1 厘米; 小穗长 4—5 毫米, 大多含 4 小花, 稍带紫色; 颖几相等, 长 1.5—2.2 毫米, 先端锐尖, 边缘狭膜质, 具 3 脉, 脊粗糙; 外稃微粗糙, 间脉不明显, 脊中部以下及边脉下部 1/3 有较长柔毛, 基盘有中量绵毛, 第一外稃长约 2.5 毫米; 内稃等长于外稃, 脊具短纤毛; 花药长约 1 毫米。花期 7 月。

产甘肃。生于干旱山坡。模式标本采自甘肃六盘山。

187. 硬叶早熟禾 (禾本科图说) 图版 20: 2

Poa stereophylla Keng ex L. Liu in Addenda; 中国主要植物图说·禾本科 199, 图 152. 1959; 横断山区维管植物 2: 2196. 1994, sine latin. descr.

多年生, 丛生。秆直立, 高约 50 厘米, 具 5—6 节, 顶节距秆基约 15 厘米, 裸露部分糙涩。叶鞘粗糙, 大多长于其节间, 顶生者长约 5 厘米; 叶舌长 1—1.5 毫米, 钝头; 叶片直立, 质地较硬, 长 3—8 厘米, 宽约 1.5 毫米, 内卷, 两面粗糙。圆锥花序狭窄, 较紧密, 长约 6 厘米, 宽约 1 厘米, 草黄色; 分枝孪生, 直立, 粗糙, 长约 2 厘米, 下部裸露; 小穗含 2—3 小花, 长约 4 毫米; 两颖近相等, 长 2.5—3 毫米, 均具 3 脉, 先端锐尖, 脊上粗糙; 外稃长 2.8—3.2 毫米, 间脉不明显, 先端较钝, 狭膜质, 脊与边脉下部具短柔毛, 基盘无绵毛; 内稃等长于外稃, 脊上部 2/3 具小纤毛, 背部有点状微毛; 花药长于 1 毫米。花期 6—8 月。

产四川东北部、宁夏。生于山坡草地, 海拔约 1500 米。模式标本采自宁夏贺兰山。

188. 冷地早熟禾 (禾本科图说)

Poa crymophila Keng ex C. Ling in Acta Phytotax. Sin. 17 (1): 103. 1979; 中国主要植物图说·禾本科 200, 图 153. 1959; 西藏植物志 5: 112. 1987; 横断山区维管植物 2: 2196. 1994; 中国草地饲用植物资源 301. 1994.

多年生, 丛生。秆直立或有时基部稍膝曲, 高 (15—) 20—60 厘米, 直径 0.5—1 毫米, 具 2—3 节, 顶节位于秆下部约 1/8 处, 紧接花序下微粗糙。叶鞘平滑, 基部者紫红色; 叶舌膜质, 长 0.5—3 毫米; 叶片质较硬, 内卷或对折, 下面平滑, 上面微粗糙, 长 3—9 厘米, 宽 0.5—1 毫米, 蘖生叶片长 10 厘米以上。圆锥花序狭窄, 短小, 长圆形, 长 2—15 厘米, 宽约 1 厘米; 分枝上举或开展, 粗糙, 基部分枝每节 2 (4)

scaberulis in $1/3$ marginalibusque in $1/4$ inferiore longius pilosis, callo moderatim lanuginoso, lemmate primo 4—4.5mm longo; palea lemmate paulo brevior, carinis scabris; antherae flavae, circ. 2mm longae.

Qinghai: Menyuan, ad locum alt. circ. 2400m crescens, 6 IX 1936, K. M. Liu 6993 (Typus, JSBI).

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

Species Poae psilolepidi keng comparate propinqua, sed culmo 5—6-nodi et foliorum laminis multis, firmis involutisque evidenter distinguenda.

perennis, radicibus fibrosis; culmi caespitosi, erecti, circ. 50cm alti, 5—6-nodes, nodo supremo e basi culmi circ. 14 cm remoto, ad partem nudam scabri; vaginac scabrae, internodiis saepissime longiores, summa 4.5—5cm longa, lamina sua (7.5—8cm longa) brevior; ligula membranacea, obtusa, 1—1.5mm longa; laminae erectae, firmae, involutae, 2—8cm longa, circ. 1.5 mm latae, utrinque scabrae; panis cula straminea, linearis, densior, 6cm longa, circ. 1 cm lata, ramis binis, erectis, scabris, basilibus usque 2.5cm longis, in $2/3$ inferiore nudis; spiculae obovatae 2—3-florae, circ. 4mm longae, rhachilla glabra; glumae ovato-lanceolatae, acuminatae, 3-nerviae, carina scabra, prima 2—3mm longa, secunda 3—3.2mm longa; lemmata ovato-oblonga, apice obtusiora et angustissime membranacea, nervis, intermediis obscuris, medianis inferne ut marginalibus in $1/4$ inferiore breviter pilosis, callo glabro, lemmate primo 2.5—3.2mm longo; palea lemma aequans, carinis superne $2/3$ ciliolatis, dorso punctato-scabra; antherae 1mm longae.

Ningxia: Helan-shan, ad declivitatem aridam crescens, 29 VIII 1933, M. Y. Hsia 3950 (Typus, JSBI).

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

Species habitu argunensis Roshev. valde similis ad partem inter nervos glabris haud dense adpressi-puberulis recedit.

Perennis, radicibus fibrosis tenuibus; culmi dense caespitosi, 13—23cm alti, circ. 0.5mm crassi, saepissime 2-nodes, plerumque leves glabrique vel infra paniculam scaberuli; vaginae plerumque internodiis breviores vel ea aequantes, raro iis paulo longiores, plerumque leves, punctato-scabrae, summa 2.5—4cm longa, lamina sua di-triplo longior; ligula membranacea, oblonga vel triangularis, acuta vel obtusa, 1—2-denticulata, 1.5—3mm longa; laminae plicatae vel involutae, acutae, 1—2cm longae, 0.5—1mm latae, scabrae vel infra leviores; panícula contractior et angusta, 1.5—3cm longa, 5—12mm lata, ramis 2—3-natis, scabris, erectis vel leviter ascendentibus, saepissimè e basi vel prope basin spiculatis, basilibus 0.8—1.5cm longis; spiculae 3.5—5mm longae, 3—4.5 raro 2-florae, glauco-

viridulae et leviter purpureae, rhachilla glabra; glumae fere aequilongae, 1.5—5.2mm longae, late lanceolatae, acuminatae, 3-nerviae, carina scabra, margine anguste, membranacea; lemmata oblonga, scaberula, antice leviter membranacea, nervis intermediis obscuris, medianis infra medium et marginalibus in $1/3$ inferiore longiuscule pilosis, callo moderatim lanuginoso, lemmate primo circ. 2.5mm longo; palea lemma aequans, carinis breviter ciliatis; antherae circ. 1mm longae.

Gansu: Lupanshan, ad declivitatem crescens, alt. 1600m, 2 VII 1936, K. M. Liu 5674 (Typus, JSBI).

Poa triglumis Keng f. ex L. Liu, sp. nov.

Valde affinis *P. chalaranthae* keng, sed spiculae flosculo infimo sterili recedit.

Perennis, radicibus fibrosis; culmi laxe caespitosi, tenues, leves glabrique, circ. 30cm alti, circ. 0.5mm crassi; vaginae tenuiores, leves glabraeque, plerumque quam laminae suae breviores; ligula scabiosa vel chartacea, circ. 0.2mm longa vel fere nulla; laminae lineares, 3—12cm longae, circ. 1mm latae, supra scaberulae, infra leves glabraeque; panicula pyramidata, laxe aperta, circ. 9cm longa, circ. 7cm lata, ramis binis, gracilibus, scaberulis, horizontalibus vel leviter pendulis, basalibus circ. longa 4.5cm longis, in parte inferiore circ. 2cm longae nudis, apicem versus 1—4-spiculatis; spiculae glauco-viridulae, 5—6mm longae, 2—3-florae, flosculo primo sterili et tantum in lemma unum glumaceum 2.5—3mm longum 5-nervium redacto; glumae acutae, margine membranaceae, carina superne scabra, prima circ. 2mm longa, 1-nervi, secunda circ. 3mm longa, 3-nervi; lemmata antice leviter membranacea, 5-nervia, nervis intermediis distinctis, medianis in $1/3$ marginalibusque in $1/4$ vel $1/5$ inferiore laxiuscule breviterque pilosis, lemmate secundo fertili, circ. 4mm longo, callo lanuginoso; palea lemma aequans, carinis ciliolatis; antherae circ. 2mm longae.

Sichuan: Wakin, T. J. Yu 6032 (Typus, JSBI).

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

Species *Poa faberi* Rendle valde similis, sed culmis supra medium scabris, spiculis 2—3-floris, et flosculis laxe patentibus recedit.

Perennis, radicibus fibrosis; culmi caespitosi, erecti vel basi leviter geniculati, 35—40cm alti, 3—4-nodes, nodo supremo e basi plantae 12—15cm remoto, ad partem nudam scabri; ligula, acuta, 4—7mm longa; laminae planae, angustae, utrinque scabrae, 8—11cm longae, 1.5 mm latae; panicula oblongo-lanceolata, 5—10cm longa, 2—5cm lata, ramis 2—5-natis, scabris, ascendentibus vel patentibus, basalibus usque ad 4cm longis, infra medium nudis, superne dense spiculatis; spiculae obovatae, (2) 3-florae, (3) 4—5mm longae, flosculis laxe patentibus, rhachilla glabra; glumae oblongo-lanceolatae, acuminatae, 3-nerviae, carina