

IDENTIFICATION OF COMMON WEED FOUND IN SAU FARM

Mirza Hasanuzzaman
Assistant Professor
Department of Agronomy
SAU, Dhaka

Definition of Weed:

- In 1967 the Weed Science Society of America defined a weed as “a plant growing where it is not desired” (Buchholtz, 1967).
- In 1989 the Society’s definition was changed to define a weed as “any plant that is objectionable or interferes with the activities or welfare of man” (Humburg, 1989).
- The European Weed Research Society defined a weed as “any plant or vegetation, excluding fungi, interfering with the objectives or requirements of people” (EWRS, 1986).

A weed is a weed because of the following characters:

- Abundant seed production and thus potentially large population
- Rapid population establishment
- Longer seed dormancy
- Long term survival of buried seeds
- Adaptation to spread
- Presence of vegetative reproductive structures
- Capacity to occupy sites distributed by human activities

Because of these features, weed can be better-defined as-

Plants that are unwanted or undesirable in the desired crop field, competitive, persistent and pernicious, interfere with the utilization of land and resources (water, nutrient and light) and thus adversely affect human activities (Gupta, 1984).

There are many weeds in SAU farm. Identification of some common weed with their Bengali name, English name, scientific name, growing season, associated crops and identifying characters are-

01. Family: Gramineae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Durba	Bermuda grass	<i>Cynodon dactylon</i>	Jute, sugarcane, maize, aus rice	Rabi & Kharif	Perennial, herb, creeper, smooth, long & round stem, reproduces by seed, stolon and rhizome.
02.	Boro shama	Bernyard grass	<i>Echinochloa crusgalli</i>	Maize, rice, jute and sugarcane	Kharif	Annual, herbaceous, bushy, strong stem, reproduce by seed.
03.	Choto shama	Jungle rice	<i>Echinochloa colonum</i>	Aus rice, jute, job, wheat, potato	Kharif	Annual, herbaceous, flowers are green to violet, deep bushy stem, reproduce by seed.
04.	Chapra	Goose grass	<i>Eleusine indica</i>	Aus rice, jute, maize, winter veg.	Rabi & Kharif	Spike like inflorescence, perennial, bushy, reproduce by seed.
05.	Anguli ghash	Scrab grass	<i>Digitaria sanguinalis</i>	Rice, maize, cotton and tea	Kharif	Annual, herbaceous, widely branched stem, spike like inflorescence, and reproduce by seed.
06.	Khuda anguli	Smooth scrab	<i>Digitaria ischaemum</i>	Aus rice	Kharif	Annual, herbaceous, stem is violet or blue, leaf is hair less, reproduce by seed.
07.	Arail	Swamp rice	<i>Leersia hexandra</i>	Aman & boro rice, sugarcane	Rabi & Kharif	Annual or perennial, branched spike, reproduce by seed.
08.	Gaicha	Paspalum grass	<i>Paspalum comersoni</i>	Aus rice, jute	Kharif	Annual, stem is straight, smooth, leaves are narrow, inflorescence is arranged one after another, propagated by seed.
09.	Gitta grass	Joint grass	<i>Paspalum distichum</i>	Aus rice, jute, maize, winter veg.	Rabi & Kharif	Perennial, herbaceous, black anther looks like bermuda grass but wide & big, reproduce by seed
10.	Ullu	Cogon grass	<i>Imperata cylindrica</i>	Rice (up land), maize, sugarcane	Rabi & Kharif	Perennial, herbaceous, cotton like white feather, dense tube like spike, propagated by root stalk.
11.	Sabuj Shialleja	Green foxtail	<i>Setaria viridis</i>	Aus rice, T. Aman rice, Jute	Kharif	Perennial, herbaceous, millet like soft inflorescence, dense tube like spike, propagated by seeds and rhizomes.
12	Kakpaya	Crow foot weed	<i>Dactyloctenium aegyptium</i>	Aus rice, Jute. Wheat, lentil, mustard	Kharif	Perennial grass, procumbent, extensive fibrous root, crow-foot like spike: 2-7, propagated by seed.
13.	Fulka ghash	Leptochola grass	<i>Leptochola grass</i>	Aus rice, aman rice, Jute	Kharif	Annual or perennial. Long inflorescence (20-50 cm), spreading inflorescence.
14.	Baranda grass	Torpedo grass	<i>Panicum repens</i>	Aus, jute, wheat, T. aman, pulses	Kharif and Rabi	Annual grass, inflorescence covered by sheath, propagated by rhizomes and seed.
15.	Basket grass	Basket grass	<i>Oplisma burmaniali</i>	Fallow land, orchard	Kharif and Rabi	Annual grass, propagated by seeds and rhizomes
16.	Prem kanta	Love thorn	<i>Chrysopogon aciculatus</i>	Sugarcane, maize	Rabi & kharif	Perennial, herbaceous, arrow like inflorescence, reproduce by seed.
17.	Jhara dhan	Wild rice	<i>Oryza rufipogon</i>	Jali aman rice	Rabi & Kharif	Perennial, herbaceous, hairy rice and propagated by seed.

02. Family: Cyperaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Mutha	Nutsedge	<i>Cyperus rotundus</i>	Aus rice, jute, Rabi crops	Rabi & kharif	Perennial, herbaceous, pseudo stem & triangular, Propagated by seed, rhizome, stolon & tuber.
02.	Halda mutha	Yellow nutsedge	<i>Cyperus esculentus</i>	Aus, jute	Kharif	Perennial sedge, propagated by rhizome, tuber & seed, Inflorescence yellow-brown to look at.
02.	Boro chucha	Umbrella sedge	<i>Cyperus irria</i>	Aus, boro, ropa rice & jute	Rabi & kharif	Perennial, herbaceous, pseudo stem & triangular, Propagated by seed, rhizome, & tuber. Absence of stolon.
03.	Joyna	Joyna	<i>Fimbristylis miliacea</i>	Aus, ropa aman, jute	Rabi & kharif	Annual or perennial, Inflorescence small and umbel shaped, seeds are small, rough & triangular, propagated by seed & rhizome.
04.	Behua	Small flowered umbrella sedge	<i>Cyperus difformis</i>	Aus, ropa aman, boro rice & jute	Rabi & kharif	Annual sedge, prolific seed producer, propagated by seed
05.	Matichech	Mud sedge	<i>Fimbristylis diphylla</i>	Aus, ropa aman, boro rice & jute	Rabi & kharif	Annual sedge, prolific seed producer, propagated by seed
06	Chechra	Bog bulrush	<i>Scirpus mucronatus</i>	T. Aman, Jute		Annual sedge, round lead, inflorescence on the node, propagated by seed

03. Family: Euphorbiaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Baro dudhia	Garden spurge	<i>Euphorbia hirta</i>	Aus rice , jute & rabi crops	Rabi & kharif	Annual, herbaceous, creeper; white milky liquid comes out from it when cut or scrap, propagated by seed.
02.	Chota dudhia	Prostate spurge	<i>Euphorbia parviflora</i>	Rabi crops, aus rice & jute	Rabi & kharif	Annual, herbaceous, creeper; white milky liquid comes out from it when cut or scrap, propagated by seed.
03.	Hazar dana	Corn spurge	<i>Phyllanthus niruri</i>	Rice, jute, sesame	Kharif	Annual, small leaves petioled; seeds are small, triangular, propagated by seed
04.	Ban marich	Croton plant	<i>Croton sparsiflorus</i>	Sugarcane, maize, arahar	Kharif	Annual, branched, rough, triangular capsule like fruit; propagated by seed.

04. Family: Commelinaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Kanai bashi	Spider wort	<i>Commelina benghalensis</i>	Ropa aman, jute, maize	Kharif	Annual, Wide & waved lamina, rough, kidney likes black seed; propagated by seed.

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
02.	Kanai nala	Kanai nala	<i>Cyanotis axillaris</i>	Ropa aman, aus, jute	Kharif/ rabi	Annual, fleshy stem, sword like fleshy leaf coat covers the stem; propagated by seed
03.	Kanduli	Kanduli	<i>Murdania nudiflora</i>	Aus rice, jute	Kharif	Annual or perennial, creeper, small light violet flowers bloom on top of stem or leaf axis; propagated by seed.

05. Family: Leguminosae

01.	Lazzabati	Sensitive plant	<i>Mimosa pudica</i>	Tea, coffee, rubber, maize	Kharif & rabi	Perennial, highly branched, propagated by seed
02.	Mashur chana	Common vetch	<i>Vicia hirsuta</i>	Chickpea, lentil, khesari, wheat, maize	Rabi & kharif	Annual, fruits are two seeded, slightly haired called " hirsuta", propagated by seed.
03.	Araich	Tora weed	<i>Cassia tora</i>	Pulse, Aus rice, wheat	Rabi and Kharif	Annual weed with many branches, bears many pods. Propagated through seed.
04.	Ban mashur	Vetch, wild lentil	<i>Vicia sativa</i>	Oil yielding crop, wheat, maize	Rabi	Annual, tendriled creeping climbers, propagating material- seed.
05.	Tripatri shak	Calania	<i>Desmodium trifolium</i>	Winter seasonal crops	Rabi & kharif	Perennial, compound leaf with three leaflet, leaf looks like palm, top leaflet is comparatively large, pod is long & segmented.

06. Family: Cruciferae

01.	Ban sharisha	Wild mustard	<i>Brassica kaber</i>	Oil seed and pulses	Rabi	Annual, fruit is called sliqua, looks like mustard plant; propagated by seed.
02.	Ban mula	Wild radish	<i>Raphanus raphanistrum</i>	Pulses and mustard	Rabi	Perennial, herbaceous, propagated by seed.

07. Family: Solanaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Ban begun	Black night shade	<i>Solanum nigrum</i>	Winter seasonal crops, jute, sugarcane	Rabi & kharif	Annual, dense branched, creeping, smooth stem; propagated by seed.
02.	Foska begun	Foska begun	<i>Physalis heterophylla</i>	Sugarcane, pat & fallow land	Kharif	Perennial, round fruit; reproduce by seed.
03.	Kanta begun	Horse nettle	<i>Solanum carolinense</i>	Sugarcane, lemon	Kharif	Perennial, spiny stem, round fleshy fruits are at first green then yellow; reproduce by seed.
04.	Ban tamak	Wild tobacco	<i>Nicotiana plumbaginifolia</i>	Sugarcane, maize, sesame	kharif	Perennial, herbaceous, propagated by seed.
05.	Tita begun	Tita begun	<i>Solanum torvum</i>	Maize, sugarcane	Kharif	Annual, branched stem; propagated by seed.
07.	Bon tamak	Wild tobacco	<i>Nicotiana plumbaginifolia</i>	Tobacco, potato, winter vegetable	Karif, Rabi	Annual weeds, bears flower like tobacco flower, propagated through seed.

08. Family: Polygonaceae						
01.	Bishkataly	Smart weed	<i>Polygonum hydropiper</i>	Wheat, rice	Rabi & Kharif	Annual herb, radish black stem, propagated by seed.
02.	Baro bishkataly	Swamp smart	<i>Polygonum coccineum</i>	Low land rice	Kharif	Perennial, long narrow leaves, clear vained; reproduce by seed,
03.	Bon palong	Bitter dock	<i>Rumex maritimus</i>	Mustard, onion, pulses, winter vegetables	Kharif and rabi	Annual weeds, flower axillary, propagated by seeds.

09. Family: Convolvulaceae						
01.	Kalmi lata	Water spinach	<i>Ipomoea aquatica</i>	Aus rice, jute	Kharif	Annual aquatic or semi-aquatic weed, smooth, narrow and hollow stem, climbing type, propagated by Seed & stem.
02.	Sornolata	Dodder	<i>Cuscuta reflexa</i>	Barbati, arahar	Rabi & kharif	Perennial parasitic weed, Yellow thread likes and long juicy stem; propagated by seed & vegetatively.
03.	Bindo lata	Field bind weed	<i>Convolvulus arvensis</i>	Vegetables, wheat, maize, job	Rabi	Annual climbing stem and broad leaf weed, propagated by seed & rootstalk.

10. Family: Amaranthaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Kanta notae	Spiny pig weed	<i>Amaranthus spinosus</i>	Aus rice, winter crops, pulse crops	Rabi & kharif	Spiny stem, herbaceous, Annual; propagated by seed.
02.	Shak notae	Pig weed	<i>Amaranthus viridis</i>	Winter seasonal crops	Rabi	Annual, herbaceous, branched, spine absent; propagated by seed.
03.	Malanch	Alligator weed	<i>Alternanthera philoxeroides</i>	Jalli aman, ropa aman	Kharif	Perennial, white inflorescence spike like, wax coated swell stem; reproduce by seed.
04.	Chanchi	Chanchi	<i>Alternanthera sessilis</i>	Ropa aman, boro & aus rice	Rabi & kharif	Perennial, branched stem, ball like white inflorescence; propagated by seed.
05.	Sheth murog	White cock's comb	<i>Celosia argentic</i>	Maize, aus rice, sugarcane	Kharif	Annual weed. Bears inflorescence like cock's comb

11. Family: Pontederiaceae						
01.	Kachuri pana	Water hyacinth	<i>Eichhornia crassipes</i>	Jali aman, ropa aman & boro rice	Rabi & kharif	Perennial herb, expanded and spongy petioled leaves are wax coated, propagated by rootstalk, stolon & seed.
02.	Baro pani kachu	Big water colocasia	<i>Monochoria hastata</i>	Ropa aman, boro rice	Kharif	Annual, spongy stem, petiole less leaves, capsule like fruit; propagated by seed and main fleshy stock.
03.	Choto pani kachu	Small water colocasia	<i>Monochoria vaginalis</i>	Ropa & boro rice	Rabi & kharif	Annual or perennial, fleshy root stock, spongy leaves; propagated by seed and fleshy root stock.

12. Family: Labiatae						
01.	Shetodron	Leucas	<i>Leucas aspera</i>	Mustard, masur, khesari	Rabi	Annual, few branching, tetragonal, semi hard stem; reproduce by seed.
02.	Roktodron	Red verticulia	<i>Leonurus sibiricus</i>	Sugarcane, maize, fodder	Kharif	Annual, semi hard stem, reproduce by seed.
13. Family: Chenopodiaceae						
01.	Bathua	Lambs quarter	<i>Chenopodium album</i>	Wheat, pulses, mustard	Rabi	Annual, light green stem, herbaceous; propagated by seed.

13. Family: Polypodaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Dheki shak	Fern	<i>Dryopteris filix-mas</i>	Swamp, bog plants	Kharif	Perennial, Two winged compound long leaves arise from a congested stem, spore produces below the leaf; reproduce from spore & root stalk.

14. Family: Compositae

01.	Keshuti	White eclipta	<i>Eclipta prostrata</i>	Aus rice, jute, sugarcane	Rabi & kharif	Annual or perennial, inflorescence looks like ornamentals of nose, reproduces by seed.
02.	Sagla gacha	Goat weed	<i>Ageratum conyzoides</i>	Tea, cotton, sugarcane	Rabi & kharif	Annual, herbaceous, tube like stem, long internode, hairy, whole plant is covered with cotton like fibre & thorn; reproduces by seed.
03.	Helancha	Harkuch	<i>Enhydra fluctuans</i>	Jali aman, ropa aman, boro rice	Rabi & kharif	Annual, swell and long internode, propagated by seed.
04.	Ghagra	Cocklebur	<i>Xanthium indicum</i>	Aus rice, sesame, fodder crop	Kharif	Annual, head like inflorescens, oblong fruits; propagated by seed.
05.	Girakata	Girakata	<i>Spilanthes acmella</i>	Rabi crops	Rabi	Perennial, yellow head likes inflorescens; propagated by seed.

15. Family: Papaveraceae

01.	Sheial kata	Mexican poppy	<i>Argemone mexicana</i>	Wheat, potato, tea, pulse, sugarcane	Rabi	Annual, yellow liquid release from its stem, leaf edge is spiny; propagated by seed
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16. Family: Marsileaceae

01.	Sushni shak	4-leaved water clover	<i>Marsilea quadrifolia</i>	Jali aman, boro rice	Kharif	Perennial, stolon like stem, Propagated by seed.
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17. Family: Boraginaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Hati shur	Hati shur	<i>Heliotropium indicum</i>	Maize, soybean, sugarcane	Kharif	Annual, elephant's antenna likes inflorescens; propagated by seed.

18. Family: Tiliaceae

01.	Jongle pat	Wild jute	<i>Corchorus acutangulus</i>	Jute, wheat	kharif	Annual, looks like tosha pat but short leaves; propagated by seed.
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19. Family: Portulacaceae

02.	Nunia shak	Common purslane	<i>Portulaca oleracea</i>	Vegetable, wheat, lentil, maize, potato	Rabi	Annual, herbaceous, fleshy leaves and yellow flower, propagated by seed.
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20. Family: Araceae

01.	Topa pana	Water lettuce	<i>Pistia stratiotes</i>	Jali aman, ropa aman	Kharif	Perennial, stolon yellow green, herbaceous; reproduce by stolon.
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21. Family: Umbelliferae

01.	Thankuni	Asian penny wort	<i>Hydrocotyle asiatica</i>	Rice, jute, wheat	Rabi & kharif	Perennial, kidney like leaves are waved edge, light red flower covered by bracteoles; propagated by seed.
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22. Family: Oxalidaceae

01.	Amrul shak	Indian sorrd	<i>Oxalis europea</i>	Rice, jute, tea, maize, coffee, sugarcane	Rabi & kharif	Annual, herbaceous, three hearts like leaflet present in the leaf, large, pentangular fruit; reproduce by seed.
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23. Family: Scrophulariaceae

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
01	Bigli ghash	Witch weed	<i>Striga densiflora</i>	Maize, sorghum, aus rice, kaon	Kharif	Annual, herbaceous, spiny & hairy stem, capsule like fruit covered by permanent calyx; propagated by seed.
02.	Bon dhania	Wild coriandam	<i>Scorparia dulcis</i>	Aus rice, sesame, maize	Rabi & kharif	Annual, herbaceous, fruits are looks like dhania; reproduce by

Sl. No.	Bangali name	English name	Scientific name	Associated crops	Growing season	Identifying characters
						seed.
03.	Khet papri	Khet papri	<i>Lindernia procumbens</i>	Rabi crops, mustard	Rabi & kharif	Annual, herbaceous, sessile leaves are paired, alternate; propagated by seed.
24. Family: Verbenaceae						
01.	Kutus kata	Lantana	<i>Lantana camara</i>	Fodder, maize, sugarcane	Rabi & kharif	Perennial, shrub, branched, thorny stem, when leaf or stem crushed abnormal scent comes from it; propagated by seed.
25. Family: Alismataceae						
1.	Chandmala	Arrow head	<i>Sagittaria guyanensis</i>	Transplanted rice, jute	Kharif	Aquatic weed, propagated through seed and stolon
26. Family: Scrophulariaceae						
1.	Bon dhania	Wild coriender	<i>Scroparia dulcis</i>	Aus, T. aman, jute	Kharif	Annual weed. Bears fruits like coriander, propagated through seed.

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