

and silver grey in color. Lenticels are abundant and thickly patched vertically.

3. *Chaubattia Kesri*

It is a selection from the cross St. Ambroise x Charmagz (Fig. 3). It is a mid season cultivar with fruits ripening in the third week of June.

The fruits are medium to large with average size of 4.8/4.5 cm and average weight of 48.7 g. Fruits are round with elongated stylar tip and compressed at the sides. Suture is quite distinct. The pedicel cavity is deep

and wide. Stone is slightly adhesive. Fruit color is nasturtium orange and the skin is very thin. Flesh is orange in color, slightly fibrous, firm, sweet, aromatic and juicy.

The tree is vigorous and tall with spreading branches. Trunk is thick and greyish in color. Lenticels are medium sized and sparse.

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The New Japanese Apple Cultivar, *Kitanosachi*¹

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This cultivar is an early dessert apple introduced in 1979 by the Aomori Apple Experiment Station at Kuroishi, Aamari, Japan, and developed by M. Yamada, C. Suzuki, M. Ishiyama, and T. Sato. *Kitanosachi* was introduced to overcome some of the faults of *Iwai* (American Summer Pearmain), a leading early apple cultivar in Japan for more than 80 years. It is from a cross made in 1959 of *Tsugaru* x *Iwai*. It is a diploid.

Fruits are small in size (200 to 250 g), similar to *Iwai*. Shape is oblong, just slightly longer than *Iwai*. Skin color is 50 to 80 percent covered with a light shade of red, but is slightly dull with scarf skin. The fruit stem is medium in length and thick. The cavity is medium in depth and width, and is generally russeted. The basin is medium in depth and narrow. The calyx is closed. Fruit flesh is whitish yellow in color, semi-firm in texture, of medium grain, and juicy. It is sweet with slight acidity, excellent in eating qual-

ity. Its average harvest date at Kuroishi has been August 25 (about 102 days), almost the same as *Iwai*, but one month earlier than *Tsugaru*. It is susceptible to preharvest drop, but less so than *Tsugaru*. It is desirable to harvest it in 2 pickings. Storage life is good for such as early cultivar, about 30 days at 0°C. If kept at room temperature for more than 10 days, fruits become oily.

Trees are more vigorous than *Iwai*, upright, and somewhat open. The one-year laterals are thicker than *Iwai*, chocolate in color, and have longer internodes than either parent. Leaves are larger than *Iwai*, similar to *Tsugaru*. Flowers are white and smaller than its parents. Average blooming date at Kuroishi has been May 15, one day after *Tsugaru*, and three days later than *Iwai*. *Kitanosachi* produces a good fruit sets on *Fuji*, *Tsugaru*, *Iwai* and other cultivars. It is medium in precocity of bearing.

¹Adapted from Aomori Apple Exp. Sta. Bul. #20, pp. 10-12. 1983.